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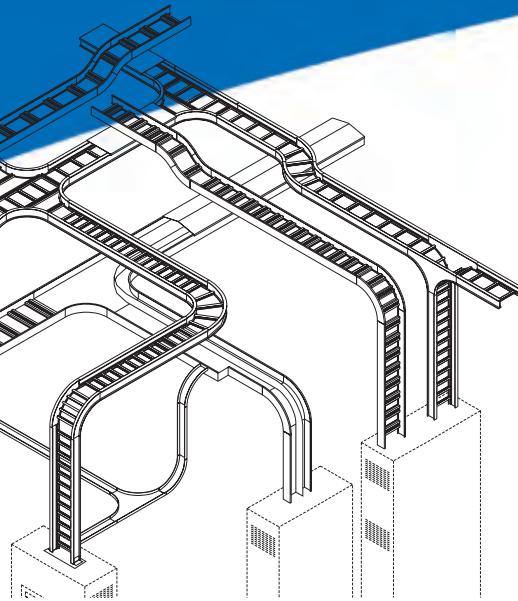
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The Benefits of Cable Tray

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Avoiding the system selection process or deferring it until construction, often result in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

Cost Efficiency

Extensive experience has shown that the overall cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50% less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- Lower engineering and maintenance costs
- Less need to reconfigure system as needs change
- Less down time for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

Reliability

Cable tray systems offer unsurpassed reliability, resulting in less maintenance and down time—important considerations for all installations and especially for industries such as data communications and financial services.

In addition, since cable tray is an open system, moisture build up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

Adaptability

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point, and initial design considerations can build-in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance

Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished easily.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation resulting from changes in temperature and then channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

Safety

Cable wiring systems lack the inherent safety concerns of conduit systems.

By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases in the same way that it channels moisture.

The conduit installation process can also present a safety issue for electricians. The process requires that a conduit system be installed from one enclosure to another before pulling in the conductors, leaving the electricians exposed to any live, energized equipment that may be in the enclosures. In contrast, installers can pull tray cables from near one termination enclosure to the next before they are inserted into the enclosures and then terminated.

Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

Glossary of Terms

.....

- Accessories** Devices which are used to supplement the function of straight sections and fittings, and include such items as drop outs, covers, conduit adapters, hold-down devices and dividers.
- Cable Tray Connector** A device which joins cable tray straight sections or fittings, or both. The basic types of connectors are: 1. Rigid, 2. Expansion, 3. Adjustable, 4. Reducer.
- Cable Tray Fitting** A device which is used to change the direction, elevation or width of a cable tray system.
- Cable Tray Support** A device which provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are: 1. Cantilever bracket, 2. Trapeze, 3. Individual and suspension.
- Channel Cable Tray** A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6 inches in width.
- Ladder Cable Tray** A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.
- Solid Bottom Cable Tray** A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.
- One-Piece / Unit Cable Tray** A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.
- Horizontal Cross** A cable tray fitting which is suitable for joining cable trays in four directions at 90-degree intervals in the same plane.
- Horizontal Bend** A cable tray fitting which changes the direction in the same plane.
- Horizontal Tee** A cable tray fitting which is suitable for joining cable trays in three directions at 90 degree intervals in the same plane.
- Metallic Cable Tray System** A metallic assembly of cable tray straight sections, fittings, and accessories that forms a rigid structural system to support cables.
- Reducer** A cable tray fitting which is suitable for joining cable trays of different widths in the same plane. A straight reducer has two symmetrical offset sides. A right-hand reducer, when viewed from the large end, has a straight side on the right. A left-hand reducer, when viewed from the large end, has a straight side on the left.
- Straight Section** A length of cable tray which has no change in direction or size.
- Ventilated Bottom** A cable tray bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables.
- Vertical Bend** A cable tray fitting which changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane. An outside vertical elbow changes direction downward from the horizontal plane.

Unique Design Features

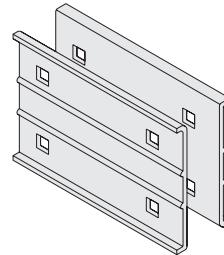
I-Beam Side Rail (Aluminum)

Maximum structural strength



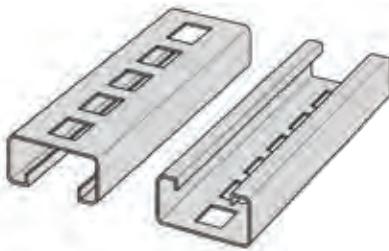
Snap-in Splice Plates (Aluminum)

Snap-in aluminum splice plates for easy installation



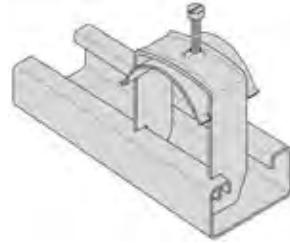
Alternating Rungs (Aluminum & Steel)

Alternating rungs for top and bottom accessory installation and cable lashing



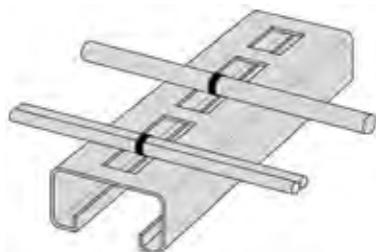
Continuous Open Slot (Aluminum & Steel)

Rungs have continuous open slot to accept standard strut pipe clamps and provide complete barrier strip adjustability



Ty-Rap® Cable Tie Slots (Aluminum & Steel)

Exclusive Ty-Rap® cable tie slots 1 in. center to center on all ladder ventilated and solid bottoms. Secure cables without kinks and keeps cables uniform

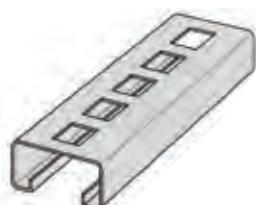


Added Support (Aluminum & Steel)

Aluminum and steel solid bottoms are constructed with a flat sheet for added cable protection

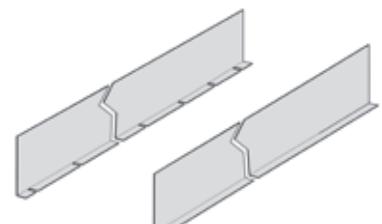
Extra Wide Rung Design (Aluminum & Steel)

Extra wide rung design for maximum cable bearing surface



Adjustable Barrier Strips (Aluminum & Steel)

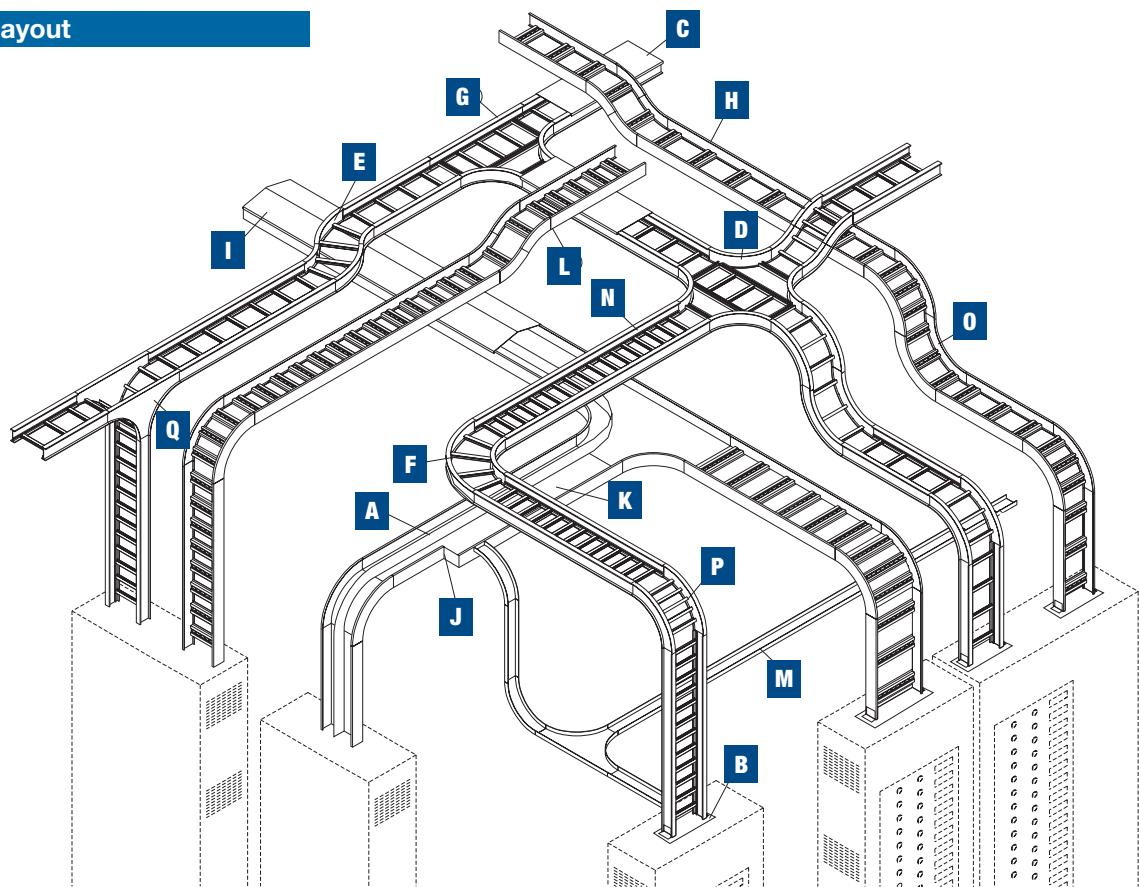
Barrier strips are fully adjustable (side to side) for use in straight sections and fittings



1.5 m / 72 in.

3 m / 144 in.

Sample Plant Layout



| Application | |
|------------------|----------------------|
| COMMERCIAL | INDUSTRIAL |
| Schools | Petrochemical Plants |
| Hospitals | Automotive Plants |
| Office Buildings | Paper Plants |
| Airports | Food Processing |
| Casinos | Power Plants |
| Stadiums | Refineries |
| | Manufacturing |
| | Mining |

| Legend | | | |
|--------|------------------|---|----------------------|
| A | Barrier Strip | J | Right Reducer |
| B | Box Connector | K | Solid Tray |
| C | Flat Cover | L | Splice Connector |
| D | Horizontal Cross | M | Solid Channel Tray |
| E | Horizontal 45° | N | Ventilated Tray |
| F | Horizontal 90° | O | Vertical 90° Inside |
| G | Horizontal Tee | P | Vertical 90° Outside |
| H | Ladder Tray | Q | Vertical Tee |
| I | Peaked Cover | | |

Selection Process

.....

A number of basic decisions must be made before a cable tray system can be specified. Thomas & Betts has developed a simple eight-step process to guide you in the process:

1. Select material and finish (p. A8)
2. Select the tray load class (p. A16)
3. Select the tray type (p. A23)
4. Select the tray size (p. A23)
5. Select the fittings (p. A24)
6. Consider deflection (p. A25)
7. Consider thermal expansion & contraction (p. A28)
8. Electrical grounding capacity (p. A29)

Each step is described in detail in the following pages. For many applications, however, you may also have to take the following into account:

- Weight of the installation, which affects the cost of the support structure and the ease of installation.
- Corrosion resistance of the material is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have a corrosive effect on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While Thomas & Betts can provide guidance, the designer is responsible for the final selection. For more information, see "Corrosion" section.
- Melting point and flammability rating are primarily concerns for nonmetallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- Relative cost varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.

1. Select Material and Finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion, and electrical considerations. Thomas & Betts offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc, and epoxy. Special paint is also available.

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum

Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being light weight (approximately less than 50% that of a steel tray) and maintenance free and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B® Cable Tray products are formed from the 6063 series alloys which by design are copper free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel

Thomas & Betts steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. Thomas & Betts offers finishes and coatings to improve the corrosion resistance of steel. These include pregalvanized, hot dip galvanized (after fabrication), epoxy and special paints.

Stainless Steel

Stainless steel offers high yield strength and high creep strength, at high ambient temperatures.

Thomas & Betts stainless steel cable tray is roll-formed from AISI Type 316/316L stainless steel.

Stainless steel is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid.

1. Select Material and Finish (cont'd)

Finishes

Electrogalvanized Coatings

The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals, and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

Pregalvanized

Pregalvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces of zinc per square foot of steel, or .32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pregalvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-Dipped Galvanized

After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal.

Hot dip galvanizing after fabrication creates a much thicker coating than the pregalvanized and electrogalvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet (according to ASTMA123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

Other Coatings

Epoxy and special paint coatings are available on request.

1. Select Material and Finish (cont'd)

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Electrochemical Corrosion

Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies, and salts contain ions, making water—especially salt water—an excellent electrolyte.

Common Types of Corrosion

Galvanic Corrosion

Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction and the extent of the corrosion depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals.

The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), list metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

Galvanic Series Table

Anodic End

| | |
|--|---------------------------------------|
| 1. Magnesium | 25. 50Pb-50Sn solder |
| 2. Magnesium alloys | 26. Silver (passive) |
| 3. Zinc | 27. Type 304 stainless steel (active) |
| 4. Galvanized steel | 28. Type 316 stainless steel (active) |
| 5. Naval brass (C46400) | 29. Lead |
| 6. Aluminum 5052H | 30. Tin |
| 7. Aluminum 3004 | 31. Muntz metal (C28000) |
| 8. Aluminum 3003 | 32. Manganese bronze (C67500) |
| 9. Aluminum 1100 | 33. Nickel (active) |
| 10. Aluminum 6053 | 34. Inconel (active) |
| 11. Alclad aluminum alloys | 35. Cartridge brass (C26000) |
| 12. Aluminum bronze (C61400) | 36. Admiralty metal (C44300) |
| 13. Cadmium | 37. Red brass (C23000) |
| 14. Copper (C11000) | 38. Silicon bronze (C 65100) |
| 15. Aluminum 2017 | 39. Copper nickel, 30% (C71500) |
| 16. Aluminum 2024 | 40. Nickel (passive) |
| 17. Low-carbon steel | 41. Inconel (passive) |
| 18. Wrought iron | 42. Gold |
| 19. Cast iron | 43. Platinum |
| 20. Monel | |
| 21. Ni-resist | |
| 22. Type 304 stainless steel (passive) | |
| 23. Type 410 stainless steel (passive) | |
| 24. Type 316 stainless steel (passive) | Cathodic End |

1. Select Material and Finish (cont'd)

Pitting Corrosion

Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice Corrosion

Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion Corrosion

While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular Corrosion

Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly affected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, (a rule-of-thumb guide is that a 30°C change in temperature results in a 10X change in corrosion rate). Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from: corrosion fatigue, which can occur in any environment; stress corrosion cracking, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes, and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media. Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assemblies bolts with washers or spacers), permit crevice corrosion and/or galvanic corrosion to occur. Areas that are poorly maintained, (e.g., surfaces are not regularly or properly washed and stubborn deposits remain on the metal surface), are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.) may be prone to localized pitting and/or crevice corrosion.

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e., galvanic corrosion. Each metal will corrode but the one that is most active [anode] can be more corroded especially when there is a large surrounding area of the less active [cathodic] metal. It is wise to avoid small anodic areas. Some examples include: steel bolts [small area of anodic metal] in stainless steel plate, [large area of cathodic metal]; steel bolts in copper plate - the steel corrodes. There can be environmental influences, for example a fluid that contains active metallic species, like copper ion contact with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) - the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum - the aluminum corrodes very rapidly. These are examples of deposit corrosion.

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

| Chemical Species | Aluminum | HDG/Steel | 316SS |
|----------------------------|--------------------|-----------|---------------------|
| Acetaldehyde | ++ | + | ++ |
| Acetic acid - aerated | (+) ^{T,C} | X | (++) ^T |
| Acetone | ++ | ++ | ++ |
| Acetylene | ++ | nd | ++ |
| Allyl alcohol | + | nd | ++ |
| Aluminum chloride - dry | + | nd | (+) ^{T,P} |
| Aluminum chloride - wet | X | X | (-) ^P |
| Aluminum sulfate - satd. | X | nd | + |
| Ammonia - anhydrous | ++ | ++ | ++ |
| Ammonia - gas | - | + | (+) ^T |
| Ammonium acetate | + | nd | + |
| Ammonium bicarbonate | - | nd | (+) ^T |
| Ammonium carbonate - satd. | + | X | + |
| Ammonium chloride - 28% | X | X | (+) ^{P,S} |
| Ammonium chloride - 50% | X | X | X |
| Ammonium hydroxide | + | + | (++) ^C |
| Ammonium chloride - 28% | X | X | (+) ^{P,S} |
| Ammonium chloride - 50% | X | X | X |
| Ammonium hydroxide | + | + | (++) ^C |
| Ammonium nitrate | + | X | (++) ^S |
| Ammonium phosphate - 40% | X | nd | + |
| Ammonium sulfate - to 30% | X | - | + |
| Amyl acetate | ++ | ++ | ++ |
| Asphalt | ++ | + | + |
| Beer | ++ | X | ++ |
| Benzene (benzol) | ++ | + | (+) ^P |
| Benzoic acid | + | nd | + |
| Benzol - see benzene | | | |
| Boric acid (boracic acid) | ++ | nd | (++) ^{T,P} |
| Bromine - wet | X | X | X |
| Butadiene (butylene) | + | + | + |
| Butyl alcohol (butanol) | ++ | ++ | ++ |
| Butyric acid | + | X | + |
| Cadmium sulfate | + | nd | ++ |
| Calcium carbonate | - | nd | + |
| Calcium chloride - satd. | + | X | (+) ^S |
| Calcium hydroxide - satd. | X | nd | + |

SYMBOLS:

- ++ first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- + good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X not recommended
- (-) brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]
- nd no available data

| Chemical Species | Aluminum | HDG/Steel | 316SS |
|--|---------------------|-----------|---------------------|
| Calcium hypochlorite - satd. | X | X | (-) ^P |
| Carbon dioxide - wet | ++ | + | + |
| Carbon disulfide (bisulfide) | ++ | + | ++ |
| Carbon tetrachloride | X | + | (++) ^{P,S} |
| Carboxlic acid - see phenol | | | |
| Carbonic acid - see carbon dioxide | | | |
| Caustic potash - see potassium hydroxide | | | |
| Caustic soda - see sodium hydroxide | | | |
| Chlorine gas - wet | X | ++ | (-) ^{P,S} |
| Chloroform | (+) ^{dry} | + | (+) ^{T,S} |
| Chromic acid | + | nd | (+) ^P |
| Citric acid - dilute | (+) ^{T,C} | X | (++) ^P |
| Copper chloride | X | X | (-) ^P |
| Copper nitrate | X | nd | ++ |
| Copper sulfate | X | - | + |
| Cresol | + | + | + |
| Crude oil | ++ | ++ | ++ |
| Diethylamine | + | ++ | ++ |
| Dimethyl ketone - see acetone | | | |
| Ethyl acetate | (++) ^{dry} | ++ | + |
| Ethyl alcohol (ethanol) | ++ | ++ | ++ |
| Ethylene dichloride | (-) ^{dry} | ++ | (+) ^{P,S} |
| Ethylene glycol (glycol) | ++ | ++ | ++ |
| Ferric chloride | X | X | X |
| Ferric nitrate - 10% | X | nd | + |
| Ferrous sulfate | + | nd | (+) ^P |
| Formaldehyde (methanal) | (+) ^P | ++ | (+) ^{T,C} |
| Fluorine gas - moist | X | X | X |
| Formalin - see formaldehyde | | | |
| Formic acid (methanoic acid) - 10% | (+) ^T | X | (+) ^{P,C} |
| Furfural (furfuraldehyde) | + | nd | + |
| Furrol - see furfural | | | |
| Gelatin | ++ | + | ++ |
| Glycerine (glycerol) | ++ | ++ | ++ |
| Hexamine - 80% | ++ | nd | ++ |

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

| Chemical Species | Aluminum | HDG/Steel | 316SS |
|-----------------------------------|-------------------|-----------|-------------------|
| Hydrobromic acid | X | X | X |
| Hydrochloric acid (muriatic acid) | X | X | X |
| Hydrocyanic acid - dilute | + | nd | + |
| Hydrocyanic acid - conc | X | nd | + |
| Hydrofluoric acid | X | X | X |
| Hydrogen chloride gas - dry | X | X | (++) ^s |
| Hydrogen chloride gas - wet | X | X | + |
| Hydrogen fluoride | (-) ^T | nd | + |
| Hydrogen peroxide - to 40% | ++ | nd | + |
| Hydrogen sulfide - wet | (+) ^P | nd | (+) ^{PS} |
| Hypo - see sodium thiosulfate | | | |
| Hypochlorous acid | X | X | X |
| Iodine solution - satd. | X | X | X |
| Lactic acid | (+) ^T | nd | (+) ^{PI} |
| Latex | ++ | - | ++ |
| Lithium chloride - to 30% | X | nd | ++ |
| Linseed oil | + | nd | ++ |
| Magnesium chloride - 50% | X | X | (+) ^{PS} |
| Magnesium hydroxide | + | nd | ++ |
| Magnesium sulfate | + | X | + |
| Maleic acid (maleinic acid) - 20% | + | nd | + |
| Methyl alcohol (methanol) | ++ | ++ | ++ |
| Methyl ethyl ketone | + | ++ | + |
| Milk | ++ | X | ++ |
| Molasses | + | nd | ++ |
| Naptha | + | + | + |
| Natural fats | ++ | ++ | ++ |
| Nickel chloride | X | nd | (+) ^{PS} |
| Nickel sulfate | X | nd | + |
| Nitric acid | X | X | (++) ^I |
| Oleic acid | (++) ^T | nd | ++ |
| Oxalic acid - dilute | - | nd | + |
| Oxalic acid - saturated | (+) ^T | X | X |
| Parformaldehyde - to 30% | + | nd | ++ |
| Perchloroethylene | + | X | (++) ^P |
| Phenol (carbolic acid) | + | + | ++ |
| Phosphoric acid - dilute | X | X | ++ |

| Chemical Species | Aluminum | HDG/Steel | 316SS |
|-------------------------------------|-------------------|-----------|-------------------|
| Phosphoric acid - 50% | X | X | (++) ^I |
| Picric acid | ++ | nd | + |
| Potassium bicarbonate - 30% | X | nd | ++ |
| Potassium carbonate | X | nd | ++ |
| Potassium chloride - to 25% | X | X | (++) ^P |
| Potassium dichromate - 30% | (++) ^T | X | ++ |
| Potassium hydroxide | X | nd | (+) ^S |
| Potassium nitrate | ++ | ++ | + |
| Potassium sulfate | ++ | ++ | ++ |
| Propionic acid (propanoic acid) | (+) ^T | X | (+) ^T |
| Propyl alcohol (propane) | ++ | ++ | ++ |
| Prussic acid - see hydrocyanic acid | | | |
| Pyridine | + | nd | ++ |
| Soaps | + | - | + |
| Sodium bicarbonate - 20% | + | nd | ++ |
| Sodium bisulfate | X | X | (+) ^T |
| Sodium bisulfite | X | X | + |
| Sodium chloride - to 30% | X | X | (+) ^{PS} |
| Sodium cyanide | X | nd | (+) ^T |
| Sodium hydroxide - 10-30% | X | X | (+) ^S |
| Sodium hydroxide - 50% | X | X | (++) ^S |
| Sodium hydroxide - conc | X | X | ++ |
| Sodium hypochlorite - conc | X | + | (-) ^{PS} |

SYMBOLS:

- ++ First choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- + Good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- Can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X Not recommended
- (-) Brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]

nd No available data

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

| Chemical Species | Aluminum | HDG/Steel | 316SS |
|----------------------------------|---------------------|-----------|--------------------|
| Sodium nitrate | ++ | X | ++ |
| Sodium peroxide - 10% | + | nd | + |
| Sodium silicate | ++ | nd | ++ |
| Sodium sulfate | (++) ^{30%} | X | ++ |
| Sodium sulfide - to 50% | X | nd | (+) ^T |
| Sodium thiosulfate | + | nd | + |
| Steam | (+) ^P | ++ | ++ |
| Stearic acid | + | nd | ++ |
| Sorbital (hexahydric alcohol) | ++ | + | ++ |
| Sulfur dioxide - dry | + | + | ++ |
| Sulfur dioxide - wet | X | X | (+) ^T |
| Sulfuric acid - to 80% | X | X | X |
| Sulfuric acid - 80-90% | X | X | (-) ^I |
| Sulfuric acid - 98% | X | X | (+) ^P |
| Tannic acid (tannin) | X | X | + |
| Tartaric acid - to 50% | (+) ^T | nd | ++ |
| Toluene (Toluol; methyl benzene) | ++ | ++ | ++ |
| Trichloroethylene | (++) ^T | + | (+) ^P |
| Turpentine | + | ++ | ++ |
| Water - acid, mine | X | - | (++) ^P |
| Water - potable | + | + | ++ |
| Water - sea | + | + | ++ |
| Zinc chloride - dilute | ++ | nd | (++) ^{PS} |

SYMBOLS:

- ++ First choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- + Good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- Can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X Not recommended
- (-) Brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]
- nd No available data

2. Select the Tray Class / Load Capacity (Loading)

Selection Process

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1. Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable. (according to NEMA VE-1 / CSA C22.2 No 126.1-02).

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are less cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

Table 1

Span/Load Class Designation — USA

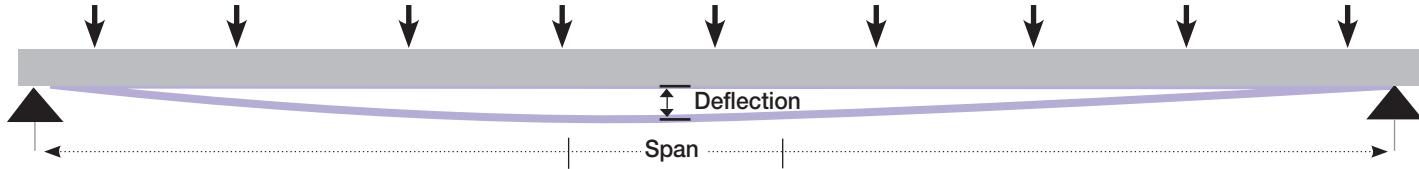
| LOAD kg/m (lb./ft.) | | SPAN. m (ft.) | | | | |
|------------------------|-----------|---------------|---------|----------|----------|----------|
| kg/m | (lb./ft.) | 1.5 (5) | 2.4 (8) | 3.0 (10) | 3.7 (12) | 6.0 (20) |
| 37 | (25) | 5AA | 8AA | 10AA | 12AA | 20AA |
| 74 | (50) | 5A | 8A | 10A | 12A | 20A |
| 112 | (75) | | 8B | | 12B | 20B |
| 149 | (100) | | 8C | | 12C | 20C |

Note: These ratings are also used in Mexico

Table 2

Span/Load Class Designation — CANADA

| LOAD kg/m (lb./ft.) | | SPAN. m (ft.) | | | | | | |
|------------------------|-----------|---------------|-----------|-----------|----------|----------|------------|----------|
| kg/m | (lb./ft.) | 1.5 (5) | 2.0 (6.5) | 2.5 (8.2) | 3.0 (10) | 4.0 (13) | 5.0 (16.4) | 6.0 (20) |
| 37 | (25) | | | | A | | | |
| 45 | (30) | | | A | | | | |
| 62 | (42) | | A | | | | | |
| 67 | (45) | | | | | | | D |
| 82 | (55) | | | | | | D | |
| 97 | (65) | | | | C | | | |
| 99 | (67) | A | | | | | | |
| 112 | (75) | | | | | | E | |
| 113 | (76) | | | | D | | | |
| 119 | (80) | | C | | | | | |
| 137 | (92) | | | | | | E | |
| 164 | (110) | C | | | | | | |
| 179 | (120) | | | | D | | | |
| 189 | (127) | | | | | E | | |
| 259 | (174) | C | | | | | | |
| 299 | (200) | | | | E | | | |



2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Selection Process

Cable Loads: The cable load is the total weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

Snow Loads: The additional design load from snowfall should be determined using the building codes which apply for each installation.

Ice Loads: The additional load design due to the ice is determined by the following formula:

$$Wi = W \times Ti \times Di/144$$

Where:

Wi = ice load (lb./ft.)

W = width of the tray (inches)

Ti = maximum ice thickness (inches)

Di = 57 lb./ft.³ - ice density

$$Wi = W \times Ti \times Di/10^6$$

Where:

Wi = ice load (kg/m)

W = width of the tray (mm)

Ti = maximum ice thickness (mm)

Di = 913 kg /m³ - ice density

Ice thickness will vary depending on installation location. A value of 1/2 inch can be used as a conservative standard for Canada.

Wind Loads: The additional loading to be considered is the effect of the impact pressure normal to the side rail.

This loading is determined by the following formula:

$$Wp = 0.00256 \times V^2 \times H/12$$

Where:

Wp = loading due to the wind (lb.)

V = wind velocity (mph)

H = Height of the side rail (inches)

It is important to note that cable tray is not designed to support personnel.

The user should display appropriate warnings to prevent the use of cable tray as walkways.

Concentrated Loads

A concentrated static load is not included in the Table 1. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/metre (pounds), using the following formula, and added to the static weight of cable in the tray:

$$We = 2 \times (\text{concentrated static load, kg (lb.)})$$

Span length, m (ft.)

Seismic Loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult Thomas & Betts to ensure your specifications are met.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Loading for Grades B, C and D

General Loading Requirements and Maps (IEEE: Section 25 Loading for Grades B, C and D)

General

1. It is necessary to estimate the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

Combined Ice and Wind Loading

Three general Angles of loading due to weather conditions are recognized and are designated as heavy, medium, and light loading.

Figure 250-1 shows the districts in which these loadings are normally applicable.

Figure 250-1 shows the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weight 57 lb./ft.³ (913 kg/m³).

Extreme Wind Loading

If any portion of a structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the applicable horizontal wind speed of **Figure 250-2**, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading.

The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

pressure in lb./ft.² = 0.00256 (v m/h)²

pressure in pascals = 0.613 (v m/h)²

where m = mètres

s = seconds

Figure 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the provisions of this rule are not required.

For Canadian customers, please refer to Annex A (page A216) for **Figure 250-1CDN** and **Figure 250-2CDN**.

For American customers, please refer to Annex B (page A217) for **Figure 250-1USA** and **Figure 250-2USA**.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous Beam

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple Beam

A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

Fixed Beam

Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load bearing ability.

Cantilever Beam

A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design (cont'd)

Splicing

Since the need for a continuous system requires that side rails be spliced, splice plates must be both strong and easy to install. Thomas & Betts Aluminum Snap-In Splice Plate allows hands free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page A27.

Basic Design Stresses

Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice—the “standard specifications” adopted by various technical societies and associations—and his or her own judgment and experience.

Factors of safety

Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors are highly important:

The accuracy with which the loads to represent service conditions are selected and assumed. If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.

The accuracy with which the stresses in the members of a structure are calculated. Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.

The significance of the structure being designed. The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests—even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design (cont'd)

Application of design stresses to cable tray systems

A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer, who is in a position to determine specific stress requirements with a far greater degree of accuracy, may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

The factors of safety used in determining maximum allowable stresses are as follows:

• Aluminum Alloys

- a. For tension: the lower of 1/3 the minimum ultimate strength or 1/2 the minimum yield strength in tension.
- b. For compression: the lower of 1/3 the minimum ultimate strength or 2/5 the minimum yield strength in compression.
- c. For shear: the lower of 1/3 the minimum ultimate strength or 1/2 the minimum yield strength in shear.

• For Hot Rolled Steels

- a. For tension: the lower of 1/2 the minimum ultimate strength or the minimum yield point in tension times .61.
- b. For compression: the lower of 1/2 the minimum ultimate strength or the minimum yield point in compression times .61.
- c. For shear: maximum stress not to exceed a value of 2/3 the basic design stress for tension.

Design Efficiency

A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of side rails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the side rail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Loading

Load Diagrams for Beams

CANTILEVER BEAMS

Uniform Load

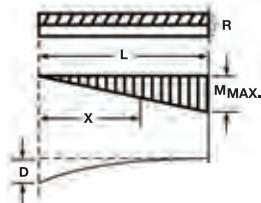
Reaction R = wL = W

$$\text{Moment at any point: } M = \frac{wX^2}{2} = \frac{WX^2}{2L}$$

$$\text{Maximum moment } M_{\max} = \frac{WL^2}{2} = \frac{WL^2}{2}$$

$$\text{Maximum deflection, } D = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$$

Maximum Shear, V = wL



Concentrated Load at Free End

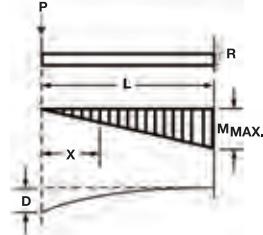
Reaction; R = P

Moment at any point: M = Px

Maximum moment, Mmax = PL

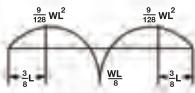
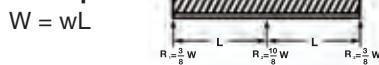
$$\text{Maximum deflection, } D = \frac{PL^3}{3EI}$$

Maximum Shear, V = P



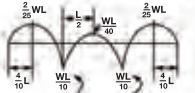
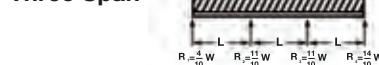
CONTINUOUS BEAMS

Two Span



Four Span

Three Span



Five Span

SIMPLE BEAMS

Uniform Load

w per unit of length, total load w

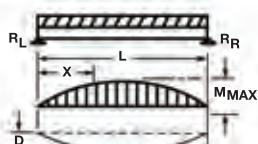
$$\text{ReactionS: } R_L = R_R = \frac{WL}{2} = \frac{W}{2}$$

$$\text{Moment at any point: } M = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$$

$$\text{Maximum moment, AT CENTER } M_{\max} = \frac{wL^2}{8} = \frac{WL^2}{8}$$

$$\text{Maximum deflection: } D = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$$

$$\text{Maximum Shear: } V = \frac{WL}{2}$$



Concentrated Load AT CENTER

$$\text{Reaction } R_L = R_R = \frac{P}{2}$$

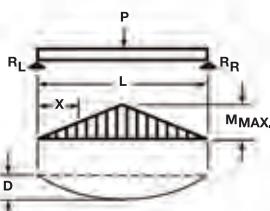
$$\text{Moment at any point: } X < \frac{L}{2}, M = \frac{PX}{2}$$

$$X > \frac{L}{2}, M = \frac{P(L-X)}{2}$$

$$\text{Maximum moment, AT CENTER, } M_{\max} = \frac{PL}{4}$$

$$\text{Maximum deflection, } D = \frac{PL^3}{48EI}$$

$$\text{Maximum Shear, } V = \frac{P}{2}$$



Concentrated Load at any Point

$$\text{Reaction: } R_L = \frac{Pb}{L}, R_R = \frac{Pa}{L}$$

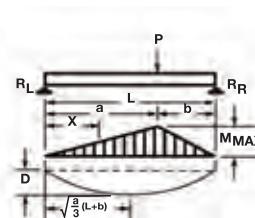
$$\text{Moment at any point: } X < a, M = R_L X = \frac{PbX}{L}$$

$$X > a, M = R_R (L-X) = \frac{Pa(L-X)}{L}$$

$$\text{Maximum moment, At } X = a, M_{\max} = \frac{Pab}{L}$$

$$\text{Maximum deflection, } D = \frac{Pab(L+b)3a(L+b)}{27EI L}$$

$$\text{Maximum Shear, } V = \frac{Pa}{L}, \text{ WHEN } a > b$$



3. Select the Tray Type

Cable tray is available with three styles of bottom:

Ladder Cable Tray is a prefabricated structure consisting of two longitudinal side rails connected by individual transverse members.

Ventilated Cable Tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal side rails, with no openings exceeding 4 in. in a longitudinal direction.

Solid Bottom Cable Tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12, and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables. Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

4. Select the Tray Size

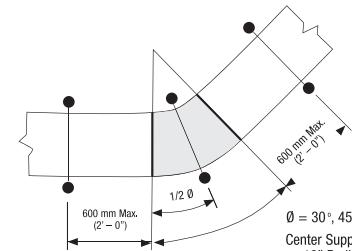
The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3-5/8, 4, 5, 6 and 7 inches (8 inch height also available as a special - see appendix). Cable ties or other spacing devices may be used to maintain the required air space between cables.

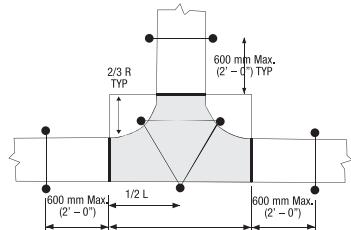
5. Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in. Fittings are also available for 30°, 45°, 60°, and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

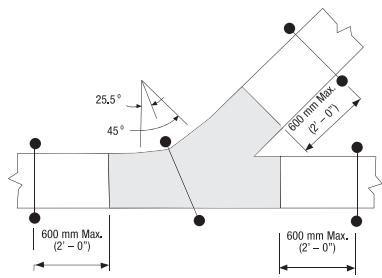
Support Locations for Fittings



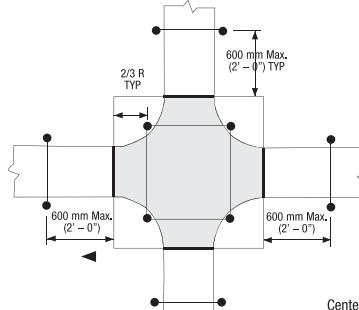
HORIZONTAL ELBOWS



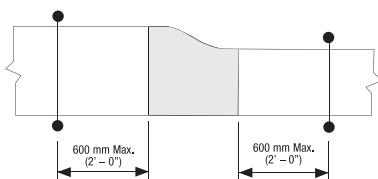
HORIZONTAL TEE



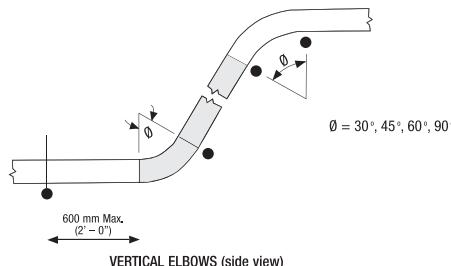
HORIZONTAL WYE



HORIZONTAL CROSS



REDUCER



VERTICAL ELBOWS (side view)

6. Consider Deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of nonmetallic cable tray, deflection may be affected by elevated temperatures.

The NEMA/CSA load test is a simple beam, uniformly distributed load test (see Figure 1.2). This type of test was initially selected because:

- It was easiest to test.
- It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalogue for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

$$\text{Test Load} = 1.5 \times \text{rated load} \times \text{length}$$

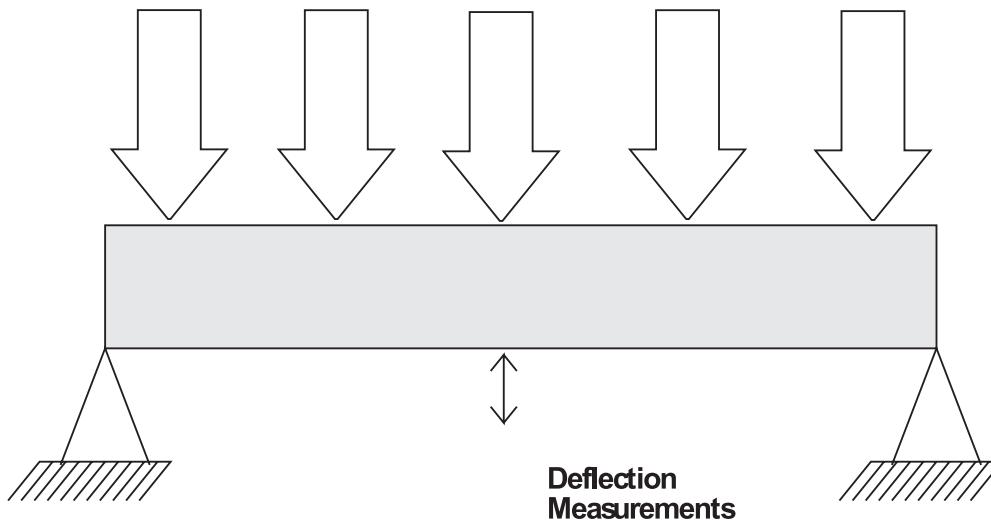


Figure 1.2

6. Consider Deflection (cont'd)

Simple Versus Continuous Beam Deflection

Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$\frac{.0130}{EI} \frac{w L^4}{EI} \times 1728 = 22.5 \frac{w L^4}{EI}$$

Where:
w = Load in lb./ft.
L = Length in ft.
E = Modulus of Elasticity lbf/in² (psi)
I = Moment of Inertia in in⁴

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$\frac{.00541}{EI} \frac{w L^4}{EI}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple vs. Continuous Beam Deflection

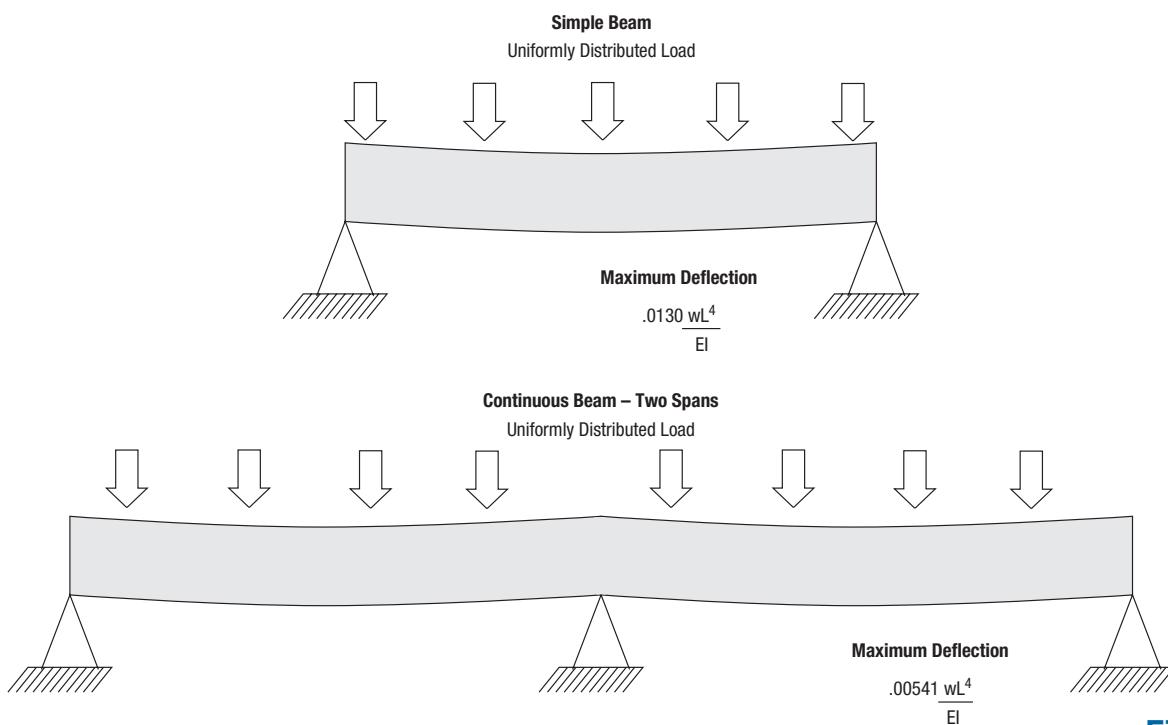


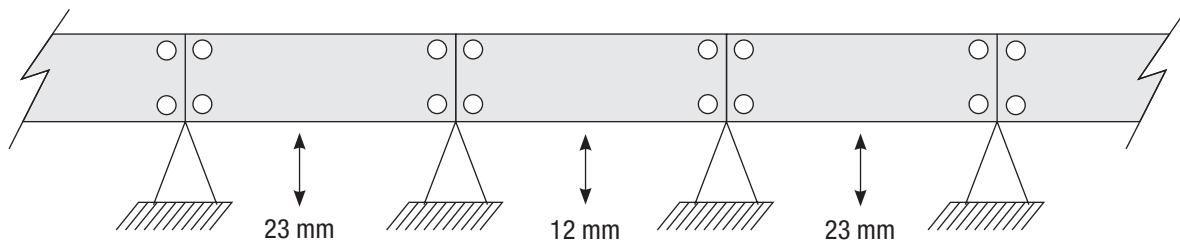
Figure 1.3

6. Consider Deflection (cont'd)

Location of Couplings

Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10 % of its simple beam deflection.

Couplers at Supports - Not Recommended



Couplers at 1/4 Span From Supports - Ideal Layout

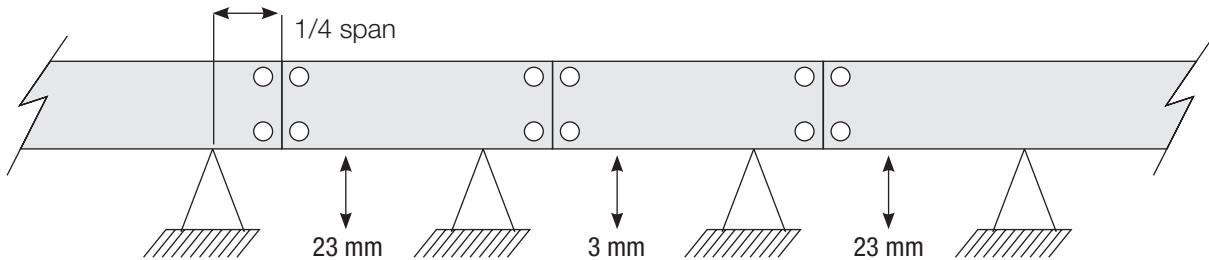


Figure 1.4

The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

Location of Couplers

(see Figure 1.4) The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the couplers are moved to the one-quarter point from the above supports.

This can be a major concern for designers considering modular systems for tray and pipe racks.

7. Consider Thermal Expansion & Contraction

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation. To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap (see Figure 2):

Plot your gap setting

- Locate the lowest metal temperature on low temperature line.
- Locate the highest metal temperature on high temperature line.
- Connect these two points.
- Locate installation temperature and plot to high/low line. Drop plot to gap setting.

Table 1

Maximum distance between expansion joints
(For 1 in. Movement)

| Temperature Differential °C | °F | 316 Stainless Steel | | Steel | | Aluminum | |
|--------------------------------|-----|---------------------|------|-------|------|----------|------|
| | | m | Feet | m | Feet | m | Feet |
| 14 | 25 | 115 | 379 | 156 | 512 | 79 | 260 |
| 28 | 50 | 58 | 189 | 78 | 256 | 40 | 130 |
| 42 | 75 | 38 | 126 | 52 | 171 | 27 | 87 |
| 56 | 100 | 29 | 95 | 39 | 128 | 20 | 65 |
| 70 | 125 | 23 | 76 | 31 | 102 | 16 | 52 |
| 83 | 150 | 19 | 63 | 26 | 85 | 13 | 43 |
| 97 | 175 | 16 | 54 | 22 | 73 | 11 | 37 |

Note: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides. (See Figure 3)

Figure 2

Gap Setting of Expansion Splice Plate

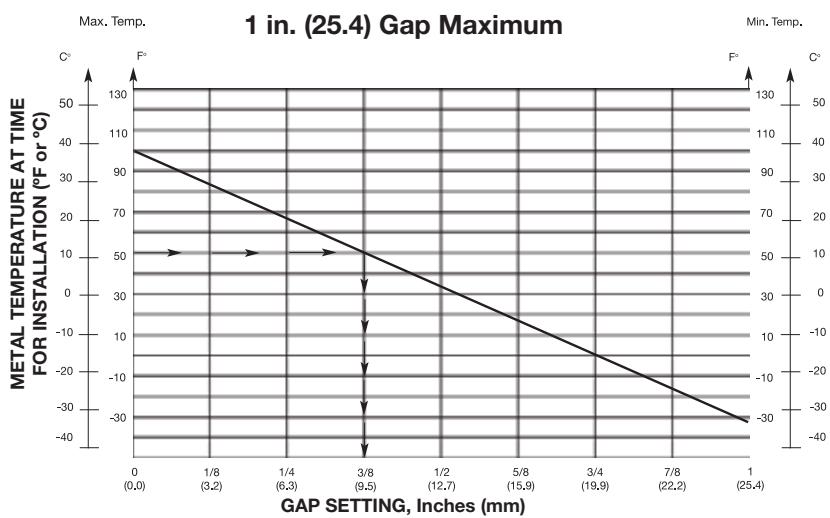
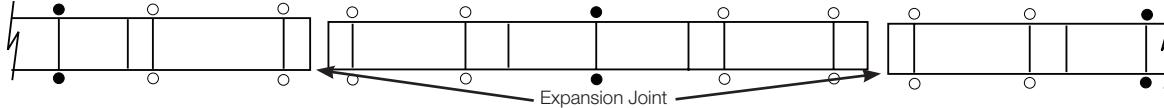


Figure 3

Typical Cable Tray Installation



● = hold down clamp (anchor) at support
○ = expansion guide clamp at support

8. Electrical Grounding Capacity

The National Electrical Code, Article 392-7 allows cable tray to be used as an equipment grounding conductor. All Thomas & Betts standard cable trays are classified by Underwriter's Laboratories per US NEC Table 392-7 based on their cross sectional area.

The corresponding cross-sectional area for each side rail design (2-side rails) is listed on the label. This cable tray label is attached to each straight section that is UL classified. Fittings are not subject to CSA or UL.

NEC TABLE 392.7 (B)

Metal Area Requirements for Cable Trays

Used as Equipment Grounding Conductors

| Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System | Minimum Cross-Sectional Area of Metal* In Square Inches | |
|--|---|----------------------|
| | Steel Cable Trays | Aluminum Cable Trays |
| 60 | 0.20 | 0.20 |
| 100 | 0.40 | 0.20 |
| 200 | 0.70 | 0.20 |
| 400 | 1.00 | 0.40 |
| 600 | 1.50** | 0.40 |
| 1000 | — | 0.60 |
| 1200 | — | 1.00 |
| 1600 | — | 1.50 |
| 2000 | — | 2.00** |

For SI units: 1 in² = 645 mm².

* Total cross-sectional area of both side rails for ladder or trough-type cable trays; or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

See pages A221 to A223 for grounding and bonding products.

For more information on grounding and bonding cable tray refer to section 4.7 of the NEMA VE 2-2006 Cable Tray installation guidelines.

Engineering Cable Tray Specification

Cable Tray

- Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable Tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

Material

- Aluminum - All side rails, and rungs shall be of extruded aluminum type 6063-T6. Side rails shall be of I-beam construction.
- Pregalvanized steel - All side rails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Side rail shall be reinforced with flanges turned inward.
- Hot-dipped galvanized Steel - All side rails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07, SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be Hot-dipped galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.²
- Stainless Steel - All cable tray and accessories shall be of type AISI 316 stainless steel.

Tray Types

- Ladder - Ladder tray shall incorporate two side rails connected by lateral rungs. Rungs shall provide minimum 1 in. bearing surface and have slots perpendicular to the centerline of the rung on 1 in. centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6, 9, 12 or 18 in. spacing. The rungs shall not be below the bottom of the side rail.
- Solid Bottom - Solid Bottom tray shall incorporate two side rails connected by rungs on 12 in. centers with a solid sheet applied below the rungs.
- Ventilated Trough - Ventilated trough tray shall incorporate two side rails connected by rungs at 4 in. spacing.

Dimensions

- Side rail height - Side rails heights shall be 3-5/8, 4, 5, 6 and 7 in. minimum loading depths shall be 2-5/8, 3, 4, 5, and 6 in.
- Length - All cable tray straight sections shall be supplied in 12 ft., 24ft., 3m and 6m lengths.
- Width - Cable tray shall be supplied in 6, 9, 12, 18, 24, 30 and 36 in. widths as required.
- Radius Fittings - For all fittings requiring a radius that radius shall be 12, 24, 36 or 48 in. and shall be measured to the nearest perpendicular surface.

Accessories

- Covers and Accessories - Covers shall be supplied to protect tray cable where needed. Appropriate holdowns shall be supplied to properly attach the covers to the tray.
- Splice Plates - Aluminum splice plates shall be designed to snap into tray side rail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

Loading Capabilities

- Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5. The cable tray should also be able to support a 200 lb. concentrated load at midspan over and above stated cable load.

Design and Manufacture

- Cable tray design shall be that of T&B Cable Tray Systems as manufactured by Thomas & Betts.

Engineering Cable Tray Specification (cont'd)

Selection of Thomas & Betts Series of Cable Tray

— Please refer to Table 2 for Aluminum and Table 3 for Steel — (page A32)

Table 1a

Span/Load Class Designation — USA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

| LOAD kg/m (lb./ft.) | | SPAN, m (ft.) | | | | |
|------------------------|-----------|---------------|---------|----------|----------|----------|
| kg/m | (lb./ft.) | 1.5 (5) | 2.4 (8) | 3.0 (10) | 3.7 (12) | 6.0 (20) |
| 37 | (25) | 5AA | 8AA | 10AA | 12AA | 20AA |
| 74 | (50) | 5A | 8A | 10A | 12A | 20A |
| 112 | (75) | | 8B | | 12B | 20B |
| 149 | (100) | | 8C | | 12C | 20C |

Note: These ratings are also used in Mexico.

Table 1b

Span/Load Class Designation — CANADA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

| LOAD kg/m (lb./ft.) | | SPAN, m (ft.) | | | | | | |
|------------------------|-----------|---------------|-----|-----|----------|-----|-----|----------|
| kg/m | (lb./ft.) | 1.5 (5) | 2.0 | 2.5 | 3.0 (10) | 4.0 | 5.0 | 6.0 (20) |
| 37 | (25) | | | | A | | | |
| 45 | (30) | | | A | | | | |
| 62 | (42) | | A | | | | | |
| 67 | (45) | | | | | | | D |
| 82 | (55) | | | | | | D | |
| 97 | (65) | | | | C | | | |
| 99 | (67) | A | | | | | | |
| 112 | (75) | | | | | | E | |
| 113 | (76) | | | | D | | | |
| 119 | (80) | | C | | | | | |
| 137 | (92) | | | | | | E | |
| 164 | (110) | | C | | | | | |
| 179 | (120) | | | | D | | | |
| 189 | (127) | | | | | E | | |
| 259 | (174) | C | | | | | | |
| 299 | (200) | | | | E | | | |

Engineering Cable Tray Specification (cont'd)

Table 2

Aluminum Load / Span Class Designation

| Side Rail Height (in.) | Series | Load Depth (in.) Nominal | NEMA Class | CSA Class |
|------------------------|--|--------------------------|--------------------------------------|----------------------------------|
| 4 | AH14 AH34 AH54 | 3 | 12A 12C 20B | C/3m D/6m E/6m |
| 5 | AH25 AH45 | 4 | 12C 20B | D/6m E/6m |
| 6 | AH16 AH36 AH46 AH56 AH66 AH76 | 5 | 12C 20B 20C 20C 20C — | D/6m E/6m — — — — |
| 7 | AH37 AH47 | 6 | 20C 20C | — — |
| 8 | AH18 | 7 | — | — |

Engineering Cable Tray Specification (cont'd)

Table 3

Steel Load / Span Class Designation

| Side Rail Height (in.) | Series | Load Depth (in.) Nominal | NEMA Class | CSA Class |
|------------------------|---|--------------------------|-------------------|-------------------|
| 3-5/8 | SH13/SP13/SS13 | 2-5/8 | 12A | C/3m |
| 4 | SH14/SP14/SS14 SH34/SP34/SS34 | 3 | 12C 20A | D/3m D/6m |
| 5 | SH25/SP25/SS25 SH45/SP45/SS45 SH55/SP55 | 4 | 20A 20B 20C | D/6m E/6m |
| 6 | SH16/SP16/SS16 SH36/SP36/SS36 SH46/SP46/SS46 | 5 | 20A 20B 20C | D/6m E/6m — |
| 7 | SH37/SP37/SS37 | 6 | 20C | — |

Overview

Features

- Straight side rail design: Extruded I-beam
Nominal height 4 in. to 8 in.
Loading height 3 in. to 7 in.
- Snap-in splice plate connection
- Reverse position of every other rung for bottom or top mounting of cable ties
- Versatile continuous open slot rungs (strut profile)
- Holes spaced 1 in. designed based on the exclusive Ty-Rap® cable tie slots (5/8 x 5/8)
- Extra wide rung
- Four bolt connection
- Choice of two styles of fitting (U & H) side rails

Applications

| Commercial | Industrial |
|------------------|----------------------|
| Schools | Petrochemical Plants |
| Hospitals | Automotive Plants |
| Office Buildings | Paper Plants |
| Airports | Food Processing |
| Casinos | Power Plants |
| Stadiums | Refineries |
| | Manufacturing |
| | Mining |

Accessories

- Each pair of splice plates comes with 3/8 in. mounting hardware
- Complete line of accessories and support systems

Material

- 6063 aluminum alloy

Compliance

- CSA, NEMA, NEC, UL

Load Ratings

- 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Straight Lengths

Tray Bottom Types

Ladder, ventilated and solid trough



Ladder

- Extra wide aluminum rungs are welded to extruded aluminum I-beam side rails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.

Ventilated

- A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in) in the direction parallel to the tray side rails (rung edge to rung edge).

Note: For load CSA Class C/3M, NEMA 8C or less, please see alternative ventilated series of cable tray called – One-Piece found on pages A160 to A191 of the catalogue.

Solid Trough

- A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails.

Note : Fast and easy snap-in splice plates are provided with each straight section.



Straight Lengths

Number Selection

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8 in the technical section.

Methods

1. Select the material best suited to your environment.
Refer to technical section page A8.
2. Determine the tray series using the NEMA/CSA Load/Span Designations page A16, and Sizing Cable Tray page A23.
3. Select nominal depth and width of tray based on Cable Loading.
See «Sizing Cable Tray» page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

Straight Lengths

Number Selection

Straight Section Number Selection

| (AH 1-6) 24-L09-144 | | | | | | | |
|---------------------|--------------|--|------------------------|---|---|--|--|
| Material Prefix | Style Prefix | Series | Side Rail Height (in.) | Width | Bottom Type | Length | |
| A • Aluminum | H • H-Beam | 1 • Series 1 ** 3 • Series 3 5 • Series 5 | 4 | 06 • (6 in.) ** 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) V (ventilated) *** S (solid trough) *** | 144 (12 ft.) 288 (24 ft.) 3 (3 meters) 6 (6 meters) 360 (30 ft.) † | |
| | | 2 • Series 2 4 • Series 4 | 5 | | | | |
| | | 1 • Series 1 3 • Series 3 4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7 | 6 | | | | |
| | | 3 • Series 3 4 • Series 4 | 7 | | | | |
| | | 1 • Series 1** | 8 | | | | |

** Fittings not available for 8 in. side rail series 1.

*** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

† For series 76, 47 and 18 only.

Straight Lengths

4 in. Straight Sections / Series 1-4

Ladder, ventilated and solid trough

Straight Section Number Selection

| (AH 1-4) 24-L09-144 | | | | | | | |
|---------------------|--------------|-----------------|------------------------|--|---|--|--|
| Material Prefix | Style Prefix | Series | Side Rail Height (in.) | Width | Bottom Type | Length | |
| A • Aluminum | H • H-Beam | 1 • Series 1 ** | 4 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) V (ventilated) *** S (solid trough) | 144 (12 ft.) 288 (24 ft.) 3 (3 meters) 6 (6 meters) | |

** Series 1 is available in 12 ft. or less.

***For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

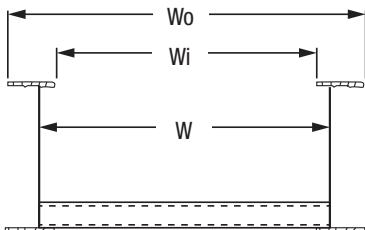
For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------|-------------------|---------------------|-------|-------|-------|----|----|----|----|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| AH1-4 | Load (lb./ft.) | 252 | 142 | 91 | 63 | – | – | – | – |
| | Deflection (in.) | 0.284 | 0.506 | 0.790 | 1.138 | – | – | – | – |
| | Deflection Factor | 0.001 | 0.004 | 0.009 | 0.018 | – | – | – | – |

Straight Lengths

4 in. Straight Sections / Series 1-4

Ladder, ventilated and solid trough

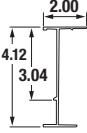


Dimensions

| AH1-4 | | |
|---------|----------------------|----------------------|
| W (in.) | W _o (in.) | W _i (in.) |
| 6 | 8.86 | 4.86 |
| 9 | 11.86 | 7.86 |
| 12 | 14.86 | 10.86 |
| 18 | 20.86 | 16.86 |
| 24 | 26.86 | 22.86 |
| 30 | 32.86 | 28.86 |
| 36 | 38.86 | 34.86 |
| 42 | 44.86 | 40.86 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------|---|--|-----------------|-------|---|
| | | | NEMA | CSA | UL |
| AH1-4 |  | I _x = 2.58 in. ⁴ S _x = 1.224 in. ³ Area = 0.968 in. ² | 12B, 8C | C/3 m | UL cross sectional Area : 0.60 in. ² |

Straight Lengths

4 in. Straight Sections / Series 3-4, 5-4

Ladder, ventilated and solid trough

Straight Section Number Selection

| (AH5-4) 24-L09-144 | | | | | | |
|--------------------|------------|------------------------------|------------------------|--|---|--|
| Material | Style | Series | Side Rail Height (in.) | Width | Bottom Type | Length |
| A • Aluminum | H • H-Beam | 3 • Series 3 5 • Series 5 | 4 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid trough | 144 •(12 ft.) 288 •(24 ft.) 3 •(3 meters) 6 •(6 meters) |

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

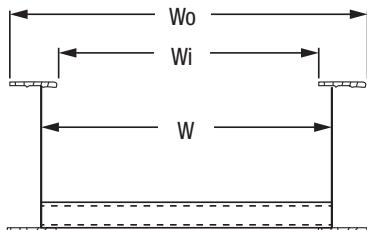
For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------|-------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| AH3-4 | Load (lb./ft.) | 533 | 300 | 192 | 133 | 98 | 75 | 59 | 48 |
| | Deflection (in.) | 0.446 | 0.792 | 1.238 | 1.782 | 2.426 | 3.169 | 4.011 | 4.951 |
| | Deflection Factor | 0.001 | 0.003 | 0.006 | 0.013 | 0.025 | 0.043 | 0.068 | 0.103 |
| AH5-4 | Load (lb./ft.) | 867 | 488 | 312 | 217 | 159 | 122 | 96 | 78 |
| | Deflection (in.) | 0.474 | 0.843 | 1.317 | 1.897 | 2.581 | 3.372 | 4.267 | 5.268 |
| | Deflection Factor | 0.001 | 0.002 | 0.004 | 0.009 | 0.016 | 0.028 | 0.044 | 0.068 |

Straight Lengths

4 in. Straight Sections / Series 3-4, 5-4

Ladder, ventilated and solid trough



Dimensions

| W (in.) | AH3-4 | | AH5-4 | |
|---------|----------------------|----------------------|----------------------|----------------------|
| | W _o (in.) | W _i (in.) | W _o (in.) | W _i (in.) |
| 6 | 8.86 | 4.86 | 8.86 | 4.86 |
| 9 | 11.86 | 7.86 | 11.86 | 7.86 |
| 12 | 14.86 | 10.86 | 14.86 | 10.86 |
| 18 | 20.86 | 16.86 | 20.86 | 16.86 |
| 24 | 26.86 | 22.86 | 26.86 | 22.86 |
| 30 | 32.86 | 28.86 | 32.86 | 28.86 |
| 36 | 38.86 | 34.86 | 38.86 | 34.86 |
| 42 | 44.86 | 40.86 | 44.86 | 40.86 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------|------------|--|-----------------|-------|---|
| | | | NEMA | CSA | UL |
| AH3-4 | | $I_x = 3.49 \text{ in.}^4$ $S_x = 1.64 \text{ in.}^3$ $\text{Area} = 1.28 \text{ in.}^2$ | 12C,16B | D/6 m | UL cross sectional Area : 1.00 in. ² |
| AH5-4 | | $I_x = 5.33 \text{ in.}^4$ $S_x = 2.36 \text{ in.}^3$ $\text{Area} = 1.93 \text{ in.}^2$ | 20B,16C | E/6 m | UL cross sectional Area : 1.50 in. ² |

Straight Lengths

5 in. Straight Sections / Series 2-5, 4-5

Ladder, ventilated and solid trough

Straight Section Number Selection

| (AH2-5) 24-L09-144 | | | | | | |
|--------------------|--------------|------------------------------|------------------------|--|---|--|
| Material Prefix | Style Prefix | Series | Side rail height (in.) | Width | Bottom Type | Length |
| A • Aluminum | H • H-Beam | 2 • Series 2 4 • Series 4 | 5 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid trough | 144 •(12 ft.) 288 •(24 ft.) 3 •(3 meters) 6 •(6 meters) |

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

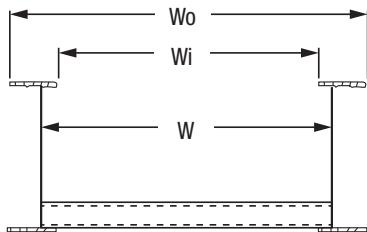
For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------|-------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| AH2-5 | Load (lb./ft.) | 511 | 288 | 184 | 128 | 94 | 72 | 57 | 46 |
| | Deflection (in.) | 0.277 | 0.493 | 0.771 | 1.110 | 1.510 | 1.973 | 2.497 | 3.083 |
| | Deflection Factor | 0.001 | 0.002 | 0.004 | 0.009 | 0.016 | 0.027 | 0.044 | 0.067 |
| AH4-5 | Load (lb./ft.) | 862 | 488 | 312 | 217 | 159 | 122 | 96 | 78 |
| | Deflection (in.) | 0.327 | 0.582 | 0.909 | 1.308 | 1.781 | 2.326 | 2.944 | 3.634 |
| | Deflection Factor | 0.0004 | 0.001 | 0.003 | 0.006 | 0.012 | 0.020 | 0.032 | 0.049 |

Straight Lengths

5 in. Straight Sections / Series 2-5, 4-5

Ladder, ventilated and solid trough



Dimensions

| W (in.) | AH2-5 | | AH4-5 | |
|---------|----------|----------|----------|----------|
| | Wo (in.) | Wi (in.) | Wo (in.) | Wi (in.) |
| 6 | 8.86 | 4.86 | 8.86 | 4.86 |
| 9 | 11.86 | 7.86 | 11.86 | 7.86 |
| 12 | 14.86 | 10.86 | 14.86 | 10.86 |
| 18 | 20.86 | 16.86 | 20.86 | 16.86 |
| 24 | 26.86 | 22.86 | 26.86 | 22.86 |
| 30 | 32.86 | 28.86 | 32.86 | 28.86 |
| 36 | 38.86 | 34.86 | 38.86 | 34.86 |
| 42 | 44.86 | 40.86 | 44.86 | 40.86 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------------|------------|--|-----------------|-------|---|
| | | | NEMA | CSA | UL |
| AH2-5 | | $I_x = 5.372 \text{ in.}^4$ $S_x = 2.016 \text{ in.}^3$ $\text{Area} = 1.38 \text{ in.}^2$ | 12C,16A | D/6 m | UL cross sectional Area : 1.00 in. ² |
| AH4-5 | | $I_x = 7.726 \text{ in.}^4$ $S_x = 2.92 \text{ in.}^3$ $\text{Area} = 1.94 \text{ in.}^2$ | 20B | E/6 m | UL cross sectional Area : 1.50 in. ² |

Straight Lengths

6 in. Straight Sections / Series 1-6, 3-6

Ladder, ventilated and solid trough

Straight Section Number Selection

| Material Prefix | Style Prefix | Series | Side rail height (in.) | Width | Bottom Type | Length |
|-----------------|--------------|------------------------------|------------------------|--|--|--|
| A • Aluminum | H • H-Beam | 1 • Series 1 3 • Series 3 | 6 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid trough | 144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters) |

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

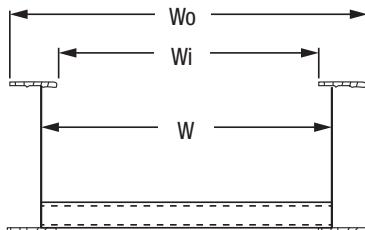
For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------------|--------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| AH1-6 | Load (lb./ft.) | 511 | 288 | 184 | 128 | 94 | 72 | 57 | 46 |
| | Deflection (in.) | 0.171 | 0.304 | 0.476 | 0.685 | 0.932 | 1.218 | 1.541 | 1.903 |
| | Deflection Factor | 0.0004 | 0.001 | 0.003 | 0.005 | 0.010 | 0.017 | 0.028 | 0.041 |
| AH3-6 | Load (lb./ft.) | 889 | 500 | 320 | 222 | 163 | 125 | 99 | 80 |
| | Deflection (in.) | 0.203 | 0.360 | 0.563 | 0.810 | 1.103 | 1.440 | 1.823 | 2.250 |
| | Deflection Factor | 0.0002 | 0.001 | 0.002 | 0.004 | 0.006 | 0.011 | 0.018 | 0.027 |

Straight Lengths

6 in. Straight Sections / Series 1-6, 3-6

Ladder, ventilated and solid trough



Dimensions

| W (in.) | AH1-6 | | AH3-6 | |
|---------|----------------------|----------------------|----------------------|----------------------|
| | W _o (in.) | W _i (in.) | W _o (in.) | W _i (in.) |
| 6 | 8.86 | 4.86 | 8.86 | 4.86 |
| 9 | 11.86 | 7.86 | 11.86 | 7.86 |
| 12 | 14.86 | 10.86 | 14.86 | 10.86 |
| 18 | 20.86 | 16.86 | 20.86 | 16.86 |
| 24 | 26.86 | 22.86 | 26.86 | 22.86 |
| 30 | 32.86 | 28.86 | 32.86 | 28.86 |
| 36 | 38.86 | 34.86 | 38.86 | 34.86 |
| 42 | 44.86 | 40.86 | 44.86 | 40.86 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------------|------------|---|-----------------|-------|---|
| | | | NEMA | CSA | UL |
| AH1-6 | | I _x = 8.702 in. ⁴ S _x = 2.706 in. ³ Area = 1.55 in. ² | 12C, 16A | D/6 M | UL cross sectional Area : 1.00 in. ² |
| AH3-6 | | I _x = 12.798 in. ⁴ S _x = 3.77 in. ³ Area = 2.072 in. ² | 20B | E/6 M | UL cross sectional Area : 2.00 in. ² |

Straight Lengths

6 in. Straight Sections / Series 4-6, 5-6, 6-6, 7-6

Ladder, ventilated and solid trough

Straight Section Number Selection

| (AH5-6) 24-L09-144 | | | | | | |
|--------------------|--------------|--|------------------------|--|---|--|
| Material Prefix | Style Prefix | Series | Side Rail Height (in.) | Width | Bottom Type | Length |
| A • Aluminum | H • H-Beam | 4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7 | 6 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid trough | 144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters) |

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

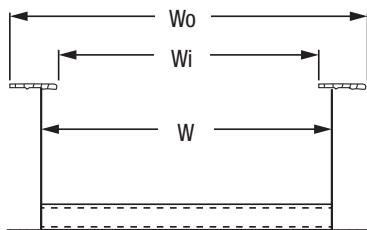
For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | | | | | | |
|--------|-------------------|---------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| AH4-6 | Load (lb./ft.) | 1144 | 644 | 412 | 286 | 210 | 161 | 127 | 103 | – | – | – | – | – |
| | Deflection (in.) | 0.242 | 0.430 | 0.673 | 0.968 | 1.318 | 1.722 | 2.179 | 2.690 | – | – | – | – | – |
| | Deflection Factor | 0.0002 | 0.001 | 0.002 | 0.003 | 0.006 | 0.011 | 0.017 | 0.026 | – | – | – | – | – |
| AH5-6 | Load (lb./ft.) | – | 769 | 492 | 342 | 251 | 192 | 152 | 123 | – | – | – | – | – |
| | Deflection (in.) | – | 0.452 | 0.707 | 1.018 | 1.386 | 1.810 | 2.290 | 2.828 | – | – | – | – | – |
| | Deflection Factor | – | 0.001 | 0.001 | 0.003 | 0.006 | 0.009 | 0.015 | 0.023 | – | – | – | – | – |
| AH6-6 | Load (lb./ft.) | – | 1075 | 688 | 478 | 351 | 269 | 212 | 172 | 126 | 106 | 91 | 78 | 68 |
| | Deflection (in.) | – | 0.525 | 0.821 | 1.182 | 1.609 | 2.102 | 2.660 | 3.284 | 3.536 | 4.208 | 4.938 | 5.727 | 6.575 |
| | Deflection Factor | – | 0.0005 | 0.001 | 0.002 | 0.005 | 0.008 | 0.013 | 0.019 | 0.028 | 0.040 | 0.055 | 0.073 | 0.097 |
| AH7-6 | Load (lb./ft.) | – | – | – | – | – | – | 208 | 169 | 139 | 117 | 100 | 86 | 75 |
| | Deflection (in.) | – | – | – | – | – | – | 2.241 | 2.767 | 3.348 | 3.985 | 4.676 | 5.424 | 6.226 |
| | Deflection Factor | – | – | – | – | – | – | 0.011 | 0.016 | 0.024 | 0.034 | 0.047 | 0.063 | 0.083 |

Straight Lengths

6 in. Straight Sections / Series 4-6, 5-6, 6-6, 7-6

Ladder, ventilated and solid trough



Dimensions

| W (in.) | AH4-6 | | AH5-6 | | AH6-6 | | AH7-6 | |
|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | W _o (in.) | W _i (in.) |
| 6 | 8.86 | 4.86 | 8.86 | 4.86 | 8.86 | 4.86 | 8.86 | 4.86 |
| 9 | 11.86 | 7.86 | 11.86 | 7.86 | 11.86 | 7.86 | 11.86 | 7.86 |
| 12 | 14.86 | 10.86 | 14.86 | 10.86 | 14.86 | 10.86 | 14.86 | 10.86 |
| 18 | 20.86 | 16.86 | 20.86 | 16.86 | 20.86 | 16.86 | 20.86 | 16.86 |
| 24 | 26.86 | 22.86 | 26.86 | 22.86 | 26.86 | 22.86 | 26.86 | 22.86 |
| 30 | 32.86 | 28.86 | 32.86 | 28.86 | 32.86 | 28.86 | 32.86 | 28.86 |
| 36 | 38.86 | 34.86 | 38.86 | 34.86 | 38.86 | 34.86 | 38.86 | 34.86 |
| 42 | 44.86 | 40.86 | 44.86 | 40.86 | 44.86 | 40.86 | 44.86 | 40.86 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------------|------------|--|-----------------|--------------|---|
| | | | NEMA | CSA | UL |
| AH4-6 | | I _x = 13.78 in. ⁴ S _x = 4.05 in. ³ Area = 2.32 in. ² | 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |
| AH5-6 | | I _x = 15.66 in. ⁴ S _x = 4.64 in. ³ Area = 2.68 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |
| AH6-6 | | I _x = 18.854 in. ⁴ S _x = 5.53 in. ³ Area = 3.25 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |
| AH7-6 | | I _x = 21.96 in. ⁴ S _x = 6.31 in. ³ Area = 3.82 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |

Straight Lengths

7 in. and 8 in. Straight Sections

Series 3-7, 4-7, 1-8

Ladder, ventilated and solid trough

Straight Section Number Selection

| (AH 3-7) 24-L09-144 | | | | | | |
|---------------------|------------|-------------|------------------------|--|---|--|
| Material | Style | Series | Side Rail Height (in.) | Width | Bottom Type | Length |
| A • Aluminum | H • H-Beam | 3 • Serie 3 | 7 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid trough | 144 •(12 ft.) 288 •(24 ft.) 3 •(3 meters) 6 •(6 meters) |

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

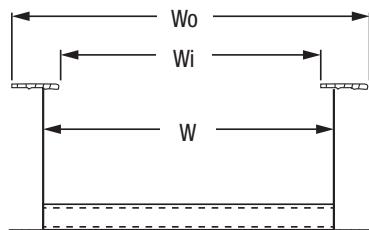
| Series | | Support Span (Feet) | | | | | | | | | | | | |
|--------------|-------------------|---------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| AH3-7 | Load (lb./ft.) | – | 825 | 528 | 367 | 269 | 206 | 163 | 132 | 97 | 81 | – | – | – |
| | Deflection (in.) | – | 0.299 | 0.468 | 0.673 | 0.916 | 1.197 | 1.515 | 1.870 | 2.009 | 2.391 | – | – | – |
| | Deflection Factor | – | 0.0004 | 0.001 | 0.002 | 0.003 | 0.006 | 0.009 | 0.014 | 0.021 | 0.029 | – | – | – |
| AH4-7 | Load (lb./ft.) | – | – | – | – | – | – | 300 | 243 | 201 | 169 | 144 | 124 | 108 |
| | Deflection (in.) | – | – | – | – | – | – | 1.925 | 2.376 | 2.876 | 3.422 | 4.016 | 4.658 | 5.347 |
| | Deflection Factor | – | – | – | – | – | – | 0.006 | 0.010 | 0.014 | 0.020 | 0.028 | 0.038 | 0.050 |
| AH1-8 | Load (lb./ft.) | – | – | – | – | – | – | 528 | 428 | 353 | 297 | 253 | 218 | 190 |
| | Deflection (in.) | – | – | – | – | – | – | 2.136 | 2.637 | 3.191 | 3.797 | 4.457 | 5.169 | 5.933 |
| | Deflection Factor | – | – | – | – | – | – | 0.004 | 0.006 | 0.009 | 0.013 | 0.018 | 0.024 | 0.031 |

Straight Lengths

7 in. and 8 in. Straight Sections

Series 3-7, 4-7, 1-8

Ladder, ventilated and solid trough



Dimensions

| W (in.) | AH3-7 | | AH4-7 | | AH1-8 | |
|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | W _o (in.) | W _i (in.) | W _o (in.) | W _i (in.) | W _o (in.) | W _i (in.) |
| 6 | 8.86 | 4.86 | 8.86 | 4.86 | 7.82 | 1.82 |
| 9 | 11.86 | 7.86 | 11.86 | 7.86 | 10.82 | 4.82 |
| 12 | 14.86 | 10.86 | 14.86 | 10.86 | 13.82 | 7.82 |
| 18 | 20.86 | 16.86 | 20.86 | 16.86 | 19.82 | 13.82 |
| 24 | 26.86 | 22.86 | 26.86 | 22.86 | 25.82 | 19.82 |
| 30 | 32.86 | 28.86 | 32.86 | 28.86 | 31.82 | 25.82 |
| 36 | 38.86 | 34.86 | 38.86 | 34.86 | 37.82 | 31.82 |
| 42 | 44.86 | 40.86 | 44.86 | 40.86 | 43.82 | 37.82 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | |
|--------------|------------|--|-----------------|--------------|---|
| | | | NEMA | CSA | UL |
| AH3-7 | | $I_x = 25.41 \text{ in.}^4$ $S_x = 6.46 \text{ in.}^3$ Area = 3.30 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |
| AH4-7 | | $I_x = 36.81 \text{ in.}^4$ $S_x = 9.08 \text{ in.}^3$ Area = 4.63 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |
| AH1-8 | | $I_x = 58.36 \text{ in.}^4$ $S_x = 13.37 \text{ in.}^3$ Area = 5.86 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 2.00 in. ² |

Fittings

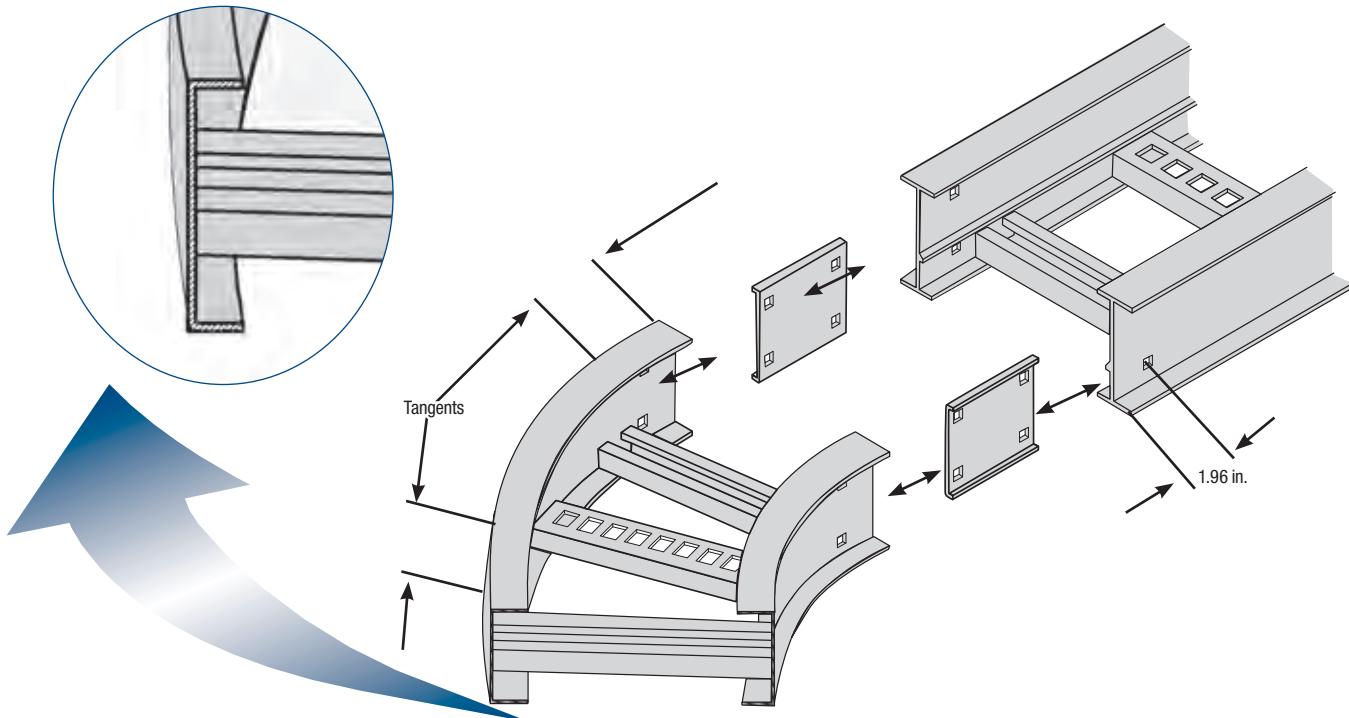
Explaining the Fitting Styles

U-Style

U-Style fittings constructed with side rail flanges on the inside only (U-Beam)

Features & Benefits

- U-Style and H-Style are interchangeable
- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy to align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle
- Functional design
- Tangents on fittings
- 7 in. length Snap-in splice plate



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

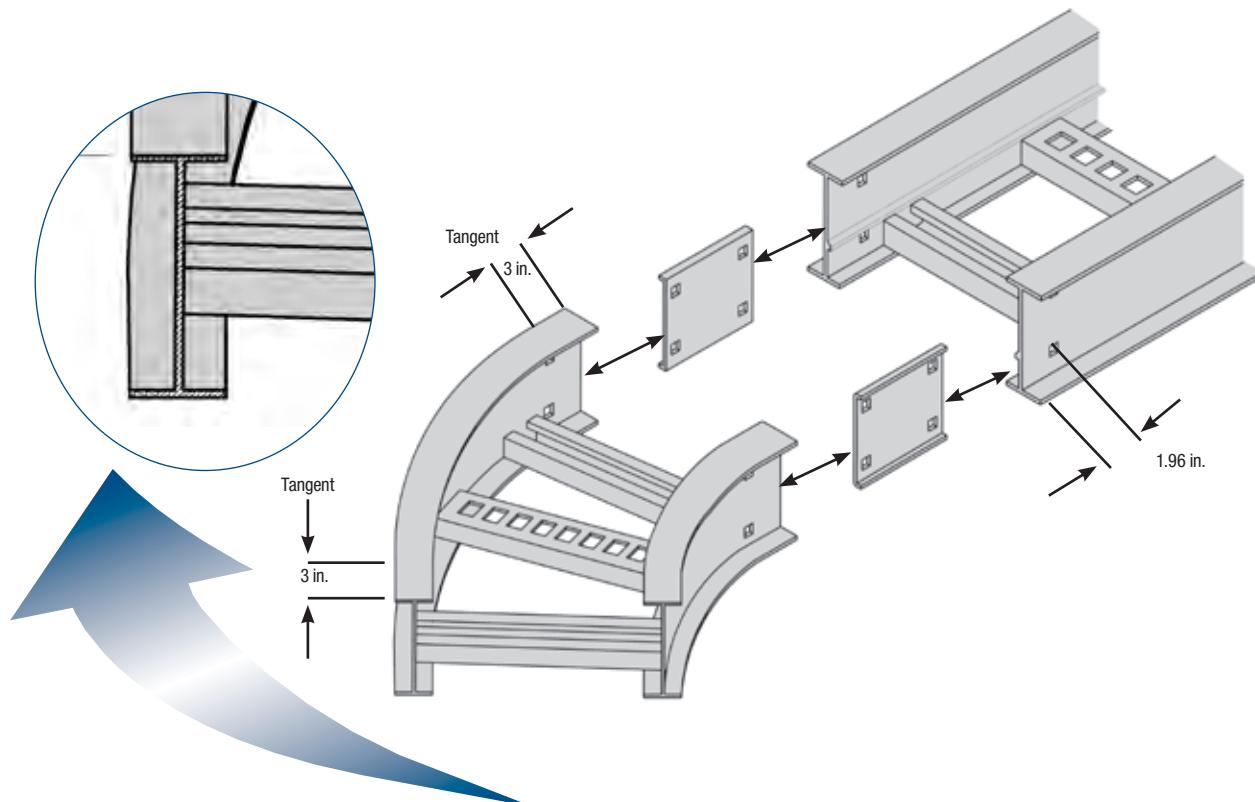
Explaining the Fitting Styles

H-Style

H-Style fittings constructed with side rail having inner and outer flanges (H-Beam)

Features & Benefits

- Improved system rigidity
- Improved aesthetics and customer appeal
- Easy to install
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted
- Premium design
- 3 in. tangents on fittings
- 7 in. length Snap-in splice plate



T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Fittings

Horizontal Fittings Selection

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings.

This step of the cable tray selection process requires that the specifier chooses between two distinct styles U and H.

Note: The U-Style and H-Style systems are interchangeable.

U-Style Fitting

A U-shaped extrusion forms the fitting side rail.

U-Style fittings utilize a 7 in. splice plate and the fittings have tangents at the extremities.

This style offers maximum quality versus cost ratios of the installation.

H-Style Fitting

An H-shaped extrusion forms the fitting side rail.

H-Style fittings utilize a 7 in. splice plate and the fittings have 3 in. tangents at the extremities.

This style offers enhanced aesthetics to the end-user and increased system rigidity.

Fitting Number Selection

| (AUF-6)-24-L-VO60-12 | | | | | | | | |
|----------------------|----------------------------|--|--|---|---|--|--|--|
| Fitting Material | Fitting Style | Side Rail Depth | Width | Bottom Type | Fitting Type | Angle ** | Nominal Radius † | |
| A • Aluminum | UF • U-Beam HF • H-Beam | 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L • Ladder * V • Ventilated *** S • Solid trough **** | HB • Horizontal bend HT • Horizontal tee HX • Horizontal cross VI • Vertical inside bend VO • Vertical outside bend VTD • Vertical tee down VTU • Vertical tee up HYR • Horizontal wye right HYL • Horizontal wye left RT • Horizontal reducing tee ET • Horizontal expanding tee EX • Horizontal expand cross HLR • Horizontal left reducer HSR • Horizontal straight reducer HRR • Horizontal right reducer CS • Cable support fitting | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) | |
| Prefix | | | | | | | | |

** Angle is required for HB, VI, VO only.

† Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

*** Manufactured with 4 in. edge to edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Fittings

Horizontal Fittings Selection Guide

Horizontal Bends

| U-Style | | H-Style | |
|---|----------|---|----------|
|  | Page A62 |  | Page A63 |
|  | Page A62 |  | Page A63 |
|  | Page A64 |  | Page A65 |
|  | Page A64 |  | Page A65 |

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Horizontal Fittings Selection Guide

Horizontal Tees, Crosses

U-Style



Page A66

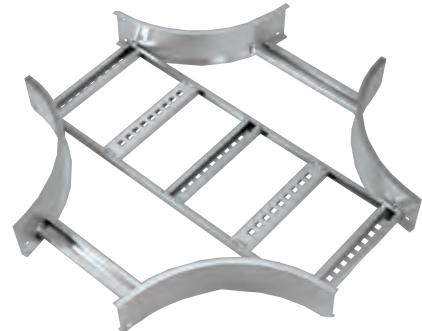
Tee

H-Style



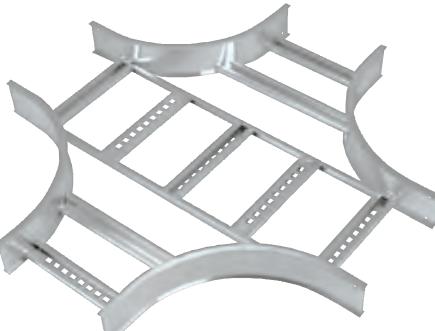
Page A67

Tee



Page A66

Cross



Page A67

Cross

Horizontal Reducing Tees

U-Style



Page A68

H-Style



Page A69

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Horizontal Fittings Selection Guide

Horizontal Expanding Tees

U-Style



Page A70

H-Style

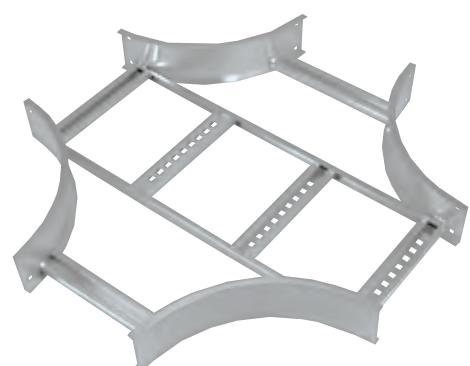


Page A71

Tee

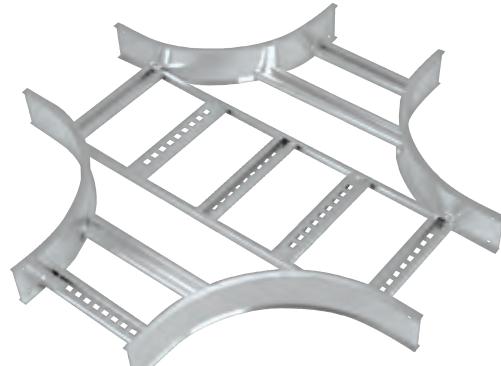
Horizontal Expanding Crosses

U-Style



Page A72

H-Style



Page A73

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Reducers

U-Style



Page A74

Offset Reducer - Right



Page A74

Reducer Straight

Page A74

Offset Reducer Left

H-Style



Page A75

Offset Reducer - Right



Page A75

Reducer Straight

Page A75

Offset Reducer Left

Wyes

U-Style



Page A76

Left Hand Wye

H-Style



Page A77

Left Hand Wye



Page A76

Right Hand Wye



Page A77

Right Hand Wye

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Vertical Bends

U-Style



Page A78

90° Outside Bend



Page A78

90° Inside Bend



Page A80

60° Outside Bend



Page A80

60° Inside Bend

H-Style



Page A79

90° Outside Bend



Page A79

90° Inside Bend



Page A81

60° Outside Bend



Page A81

60° Inside Bend

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Vertical Bends (Cont'd)

U-Style



Page A82

45° Outside Bend



Page A82

45 0176 Inside Bend



Page A84

30° Outside Bend



Page A84

30° Inside Bend

H-Style



Page A83

90° Outside Bend



Page A83

90° Inside Bend



Page A85

60° Outside Bend



Page A85

60° Inside Bend

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Vertical Tees Up / Down

U-Style



Page A86

Up



Page A86

Down

H-Style



Page A87

Up



Page A87

Down

Cable Supports

U-Style



Page A88

H-Style



Page A89

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

New

Fittings

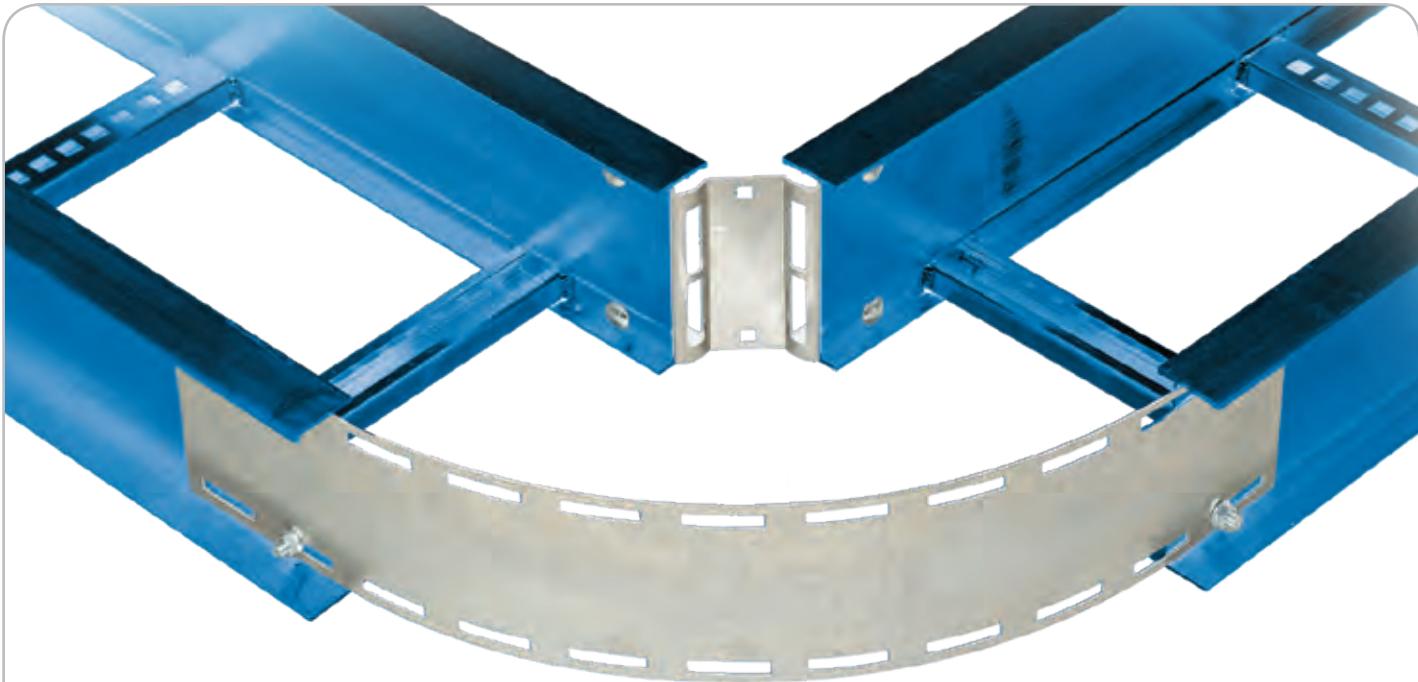
Flexible Coupler

Introducing our new Flexible Coupler

Exterior strap provides accurate radius to meet your cable tray design requirements.

The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

- Formed ribs provide better cable protection
- Fast and easy installation
- Meets the electrical continuity requirement of NEMA VE1 & CSA C22.2 No. 126.1

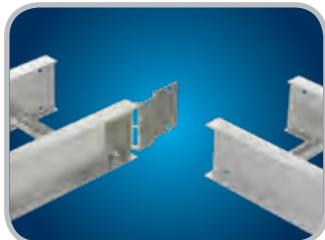


- ✓ Reduces installation time
- ✓ No need for a bonding jumper
- ✓ Flexible and economical alternative to regular AU/AH fitting



Fittings

Flexible Coupler



Fasten flexible coupler to tray.



Bend.



Fasten to the other length of cable tray.



Fasten the strap.

Aluminum – Flexible coupler



Optional rung information (Provides additional cable support)

| Cat. No. | Material | Side Rail Height (in.) | Tray Width (in.) |
|--------------|----------|---------------------------|---------------------|
| ABW-(*)06HBP | Aluminum | 4 5 6 7 | 06 |
| ABW-(*)09HBP | | | 09 |
| ABW-(*)12HBP | | | 12 |
| ABW-(*)18HBP | | | 18 |
| ABW-(*)24HBP | | | 24 |
| ABW-(*)30HBP | | | 30 |
| ABW-(*)36HBP | | | 36 |

*Insert side rail height

| Cat. No. | Material | Tray Width (in.) |
|-------------|----------|---------------------|
| ABW-R(*)HBP | Aluminum | 06 |
| | | 09 |
| | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |

*Insert tray width

Load rating with optional rung

| Tray width | Side Rail Height | | |
|--------------------------------|---------------------------|---------------------------------|---------------------------------|
| | 3 in. (76 mm) | 4 and 5 in. (102 and 127 mm) | 6 and 7 in. (152 and 178 mm) |
| 36 in. (914 mm) | 50 lb./ft. (74 kg/m) | Al: 75 lb./ft. (112 kg/m) | Steel: 50 lb./ft. (74 kg/m) |
| 30 in. (762 mm) | 75 lb./ft. (112 kg/m) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) |
| 6 to 24 in. (152 to 610 mm) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) |

Fittings

90° / 60° U-Style Fittings Horizontal Bends

Part Numbering System

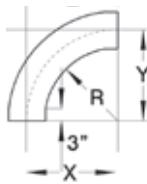
AUF-4-24-L-HB60-12

| | | | |
|--------------------------------|--------------|--------------|----------------|
| Fitting material and side rail | Width | Fitting type | Nominal radius |
| Side rail height | Bottom style | | Angle |

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 4 in.–7 in.

90° Horizontal BEND – U-Style



60° Horizontal BEND – U-Style



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|-----------------------|------------|--------|
| Radius | Width | | X | Y |
| 12 | 6 | AUF(†)-06-(*)-HB90-12 | 15 | 15 |
| | 9 | AUF(†)-09-(*)-HB90-12 | 16-1/2 | 16-1/2 |
| | 12 | AUF(†)-12-(*)-HB90-12 | 18 | 18 |
| | 18 | AUF(†)-18-(*)-HB90-12 | 21 | 21 |
| | 24 | AUF(†)-24-(*)-HB90-12 | 24 | 24 |
| | 30 | AUF(†)-30-(*)-HB90-12 | 27 | 27 |
| | 36 | AUF(†)-36-(*)-HB90-12 | 30 | 30 |
| | 42 | AUF(†)-42-(*)-HB90-12 | 33 | 33 |
| 24 | 6 | AUF(†)-06-(*)-HB90-24 | 27 | 27 |
| | 9 | AUF(†)-09-(*)-HB90-24 | 28-1/2 | 28-1/2 |
| | 12 | AUF(†)-12-(*)-HB90-24 | 30 | 30 |
| | 18 | AUF(†)-18-(*)-HB90-24 | 33 | 33 |
| | 24 | AUF(†)-24-(*)-HB90-24 | 36 | 36 |
| | 30 | AUF(†)-30-(*)-HB90-24 | 39 | 39 |
| | 36 | AUF(†)-36-(*)-HB90-24 | 42 | 42 |
| | 42 | AUF(†)-42-(*)-HB90-24 | 45 | 45 |
| 36 | 6 | AUF(†)-06-(*)-HB90-36 | 39 | 39 |
| | 9 | AUF(†)-09-(*)-HB90-36 | 40-1/2 | 40-1/2 |
| | 12 | AUF(†)-12-(*)-HB90-36 | 42 | 42 |
| | 18 | AUF(†)-18-(*)-HB90-36 | 45 | 45 |
| | 24 | AUF(†)-24-(*)-HB90-36 | 48 | 48 |
| | 30 | AUF(†)-30-(*)-HB90-36 | 51 | 51 |
| | 36 | AUF(†)-36-(*)-HB90-36 | 54 | 54 |
| | 42 | AUF(†)-42-(*)-HB90-36 | 57 | 57 |
| 48 | 6 | AUF(†)-06-(*)-HB90-48 | 51 | 51 |
| | 9 | AUF(†)-09-(*)-HB90-48 | 52-1/2 | 52-1/2 |
| | 12 | AUF(†)-12-(*)-HB90-48 | 54 | 54 |
| | 18 | AUF(†)-18-(*)-HB90-48 | 57 | 57 |
| | 24 | AUF(†)-24-(*)-HB90-48 | 60 | 60 |
| | 30 | AUF(†)-30-(*)-HB90-48 | 63 | 63 |
| | 36 | AUF(†)-36-(*)-HB90-48 | 66 | 66 |
| | 42 | AUF(†)-42-(*)-HB90-48 | 69 | 69 |

| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|--------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AUF(†)-06-(*)-HB60-12 | 14-7/8 | 8-5/8 | 9-15/16 |
| | 9 | AUF(†)-09-(*)-HB60-12 | 16-3/16 | 9-3/8 | 10-13/16 |
| | 12 | AUF(†)-12-(*)-HB60-12 | 17-1/2 | 10-1/8 | 11-11/16 |
| | 18 | AUF(†)-18-(*)-HB60-12 | 20-1/16 | 11-5/8 | 13-3/8 |
| | 24 | AUF(†)-24-(*)-HB60-12 | 22-11/16 | 13-1/8 | 15-1/8 |
| | 30 | AUF(†)-30-(*)-HB60-12 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 36 | AUF(†)-36-(*)-HB60-12 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 42 | AUF(†)-42-(*)-HB60-12 | 30-1/2 | 17-5/8 | 20-5/16 |
| 24 | 6 | AUF(†)-06-(*)-HB60-24 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 9 | AUF(†)-09-(*)-HB60-24 | 26-9/16 | 15-3/8 | 17-3/4 |
| | 12 | AUF(†)-12-(*)-HB60-24 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 18 | AUF(†)-18-(*)-HB60-24 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 24 | AUF(†)-24-(*)-HB60-24 | 33-1/16 | 19-1/8 | 22-1/16 |
| | 30 | AUF(†)-30-(*)-HB60-24 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 36 | AUF(†)-36-(*)-HB60-24 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 42 | AUF(†)-42-(*)-HB60-24 | 40-7/8 | 23-5/8 | 27-1/4 |
| 36 | 6 | AUF(†)-06-(*)-HB60-36 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 9 | AUF(†)-09-(*)-HB60-36 | 37 | 21-3/8 | 24-5/8 |
| | 12 | AUF(†)-12-(*)-HB60-36 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 18 | AUF(†)-18-(*)-HB60-36 | 40-7/8 | 23-5/8 | 27-2/8 |
| | 24 | AUF(†)-24-(*)-HB60-36 | 43-1/2 | 25-1/8 | 29 |
| | 30 | AUF(†)-30-(*)-HB60-36 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 36 | AUF(†)-36-(*)-HB60-36 | 48-11/16 | 28-1/8 | 32-7/16 |
| | 42 | AUF(†)-42-(*)-HB60-36 | 51-1/4 | 29-5/8 | 34-3/16 |
| 48 | 6 | AUF(†)-06-(*)-HB60-48 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 9 | AUF(†)-09-(*)-HB60-48 | 47-3/8 | 27-3/8 | 31-9/16 |
| | 12 | AUF(†)-12-(*)-HB60-48 | 48-11/16 | 28-1/8 | 32-7/16 |
| | 18 | AUF(†)-18-(*)-HB60-48 | 51-4/16 | 29-5/8 | 34-3/16 |
| | 24 | AUF(†)-24-(*)-HB60-48 | 53-7/8 | 31-1/8 | 35-15/16 |
| | 30 | AUF(†)-30-(*)-HB60-48 | 56-7/16 | 32-5/8 | 37-5/8 |
| | 36 | AUF(†)-36-(*)-HB60-48 | 59-1/16 | 34-1/8 | 39-3/8 |
| | 42 | AUF(†)-42-(*)-HB60-48 | 61-11/16 | 35-5/8 | 41-1/8 |

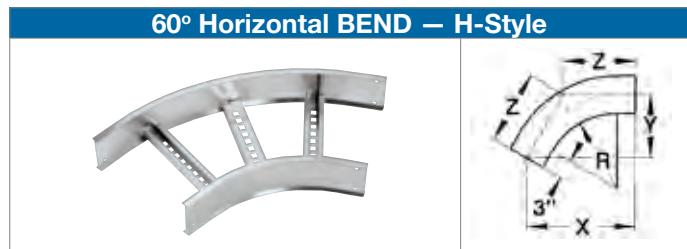
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

90° / 60° H-Style Fittings Horizontal Bends

| Part Numbering System | | | |
|--------------------------------|--------------|--------------|----------------|
| AHF-4-24-L-HB60-12 | | | |
| Fitting material and side rail | Width | Fitting type | Nominal radius |
| Side rail height | Bottom style | Angle | |

| Selection Guide | | | |
|--|--|--|--|
| Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 | | | |
| Angle: 90°, 60° | | | |
| Nominal Radius: 12, 24, 36, 48 | | | |
| Bottom Styles: L—Ladder, V—Ventilated, S—Solid | | | |
| Side Rail Heights: 4 in. – 7 in. | | | |



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|-----------------------|------------|--------|
| Radius | Width | | X | Y |
| 12 | 6 | AHF(†)-06-(*)-HB90-12 | 18 | 18 |
| | 9 | AHF(†)-09-(*)-HB90-12 | 19-1/2 | 19-1/2 |
| | 12 | AHF(†)-12-(*)-HB90-12 | 21 | 21 |
| | 18 | AHF(†)-18-(*)-HB90-12 | 24 | 24 |
| | 24 | AHF(†)-24-(*)-HB90-12 | 27 | 27 |
| | 30 | AHF(†)-30-(*)-HB90-12 | 30 | 30 |
| | 36 | AHF(†)-36-(*)-HB90-12 | 33 | 33 |
| | 42 | AHF(†)-42-(*)-HB90-12 | 36 | 36 |
| 24 | 6 | AHF(†)-06-(*)-HB90-24 | 30 | 30 |
| | 9 | AHF(†)-09-(*)-HB90-24 | 31-1/2 | 31-1/2 |
| | 12 | AHF(†)-12-(*)-HB90-24 | 33 | 33 |
| | 18 | AHF(†)-18-(*)-HB90-24 | 36 | 36 |
| | 24 | AHF(†)-24-(*)-HB90-24 | 39 | 39 |
| | 30 | AHF(†)-30-(*)-HB90-24 | 42 | 42 |
| | 36 | AHF(†)-36-(*)-HB90-24 | 45 | 45 |
| | 42 | AHF(†)-42-(*)-HB90-24 | 48 | 48 |
| 36 | 6 | AHF(†)-06-(*)-HB90-36 | 42 | 42 |
| | 9 | AHF(†)-09-(*)-HB90-36 | 43-1/2 | 43-1/2 |
| | 12 | AHF(†)-12-(*)-HB90-36 | 45 | 45 |
| | 18 | AHF(†)-18-(*)-HB90-36 | 48 | 48 |
| | 24 | AHF(†)-24-(*)-HB90-36 | 51 | 51 |
| | 30 | AHF(†)-30-(*)-HB90-36 | 54 | 54 |
| | 36 | AHF(†)-36-(*)-HB90-36 | 57 | 57 |
| | 42 | AHF(†)-42-(*)-HB90-36 | 60 | 60 |
| 48 | 6 | AHF(†)-06-(*)-HB90-48 | 54 | 54 |
| | 9 | AHF(†)-09-(*)-HB90-48 | 55-1/2 | 55-1/2 |
| | 12 | AHF(†)-12-(*)-HB90-48 | 57 | 57 |
| | 18 | AHF(†)-18-(*)-HB90-48 | 60 | 60 |
| | 24 | AHF(†)-24-(*)-HB90-48 | 63 | 63 |
| | 30 | AHF(†)-30-(*)-HB90-48 | 66 | 66 |
| | 36 | AHF(†)-36-(*)-HB90-48 | 69 | 69 |
| | 42 | AHF(†)-42-(*)-HB90-48 | 72 | 72 |

| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|--------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AHF(†)-06-(*)-HB60-12 | 17-1/2 | 10-1/8 | 11-11/16 |
| | 9 | AHF(†)-09-(*)-HB60-12 | 18-13/16 | 10-7/8 | 12-1/2 |
| | 12 | AHF(†)-12-(*)-HB60-12 | 20-1/16 | 11-5/8 | 13-3/8 |
| | 18 | AHF(†)-18-(*)-HB60-12 | 22-11/16 | 13-1/8 | 15-1/8 |
| | 24 | AHF(†)-24-(*)-HB60-12 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 30 | AHF(†)-30-(*)-HB60-12 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 36 | AHF(†)-36-(*)-HB60-12 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 42 | AHF(†)-42-(*)-HB60-12 | 33-1/16 | 19-1/8 | 22-1/16 |
| 24 | 6 | AHF(†)-06-(*)-HB60-24 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 9 | AHF(†)-09-(*)-HB60-24 | 29-3/16 | 16-7/8 | 19-7/16 |
| | 12 | AHF(†)-12-(*)-HB60-24 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 18 | AHF(†)-18-(*)-HB60-24 | 33-1/16 | 19-1/8 | 22-1/16 |
| | 24 | AHF(†)-24-(*)-HB60-24 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 30 | AHF(†)-30-(*)-HB60-24 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 36 | AHF(†)-36-(*)-HB60-24 | 40-7/8 | 23-5/8 | 27-1/4 |
| | 42 | AHF(†)-42-(*)-HB60-24 | 43-7/16 | 25-1/8 | 29-5/16 |
| 36 | 6 | AHF(†)-06-(*)-HB60-36 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 9 | AHF(†)-09-(*)-HB60-36 | 39-9/16 | 22-7/8 | 26-3/8 |
| | 12 | AHF(†)-12-(*)-HB60-36 | 40-7/8 | 23-5/8 | 27-1/4 |
| | 18 | AHF(†)-18-(*)-HB60-36 | 43-1/2 | 25-1/8 | 29 |
| | 24 | AHF(†)-24-(*)-HB60-36 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 30 | AHF(†)-30-(*)-HB60-36 | 48-11/16 | 28-1/8 | 32-7/16 |
| | 36 | AHF(†)-36-(*)-HB60-36 | 51-1/4 | 29-5/8 | 34-3/16 |
| | 42 | AHF(†)-42-(*)-HB60-36 | 53-7/8 | 31-1/8 | 35-15/16 |
| 48 | 6 | AHF(†)-06-(*)-HB60-48 | 48-11/16 | 28-1/8 | 32-7/16 |
| | 9 | AHF(†)-09-(*)-HB60-48 | 49-15/16 | 28-7/8 | 33-5/16 |
| | 12 | AHF(†)-12-(*)-HB60-48 | 51-1/4 | 29-5/8 | 34-3/16 |
| | 18 | AHF(†)-18-(*)-HB60-48 | 53-7/8 | 31-1/8 | 35-15/16 |
| | 24 | AHF(†)-24-(*)-HB60-48 | 56-7/16 | 32-5/8 | 37-5/8 |
| | 30 | AHF(†)-30-(*)-HB60-48 | 59-1/16 | 34-1/8 | 39-3/8 |
| | 36 | AHF(†)-36-(*)-HB60-48 | 61-11/16 | 35-5/8 | 41-1/8 |
| | 42 | AHF(†)-42-(*)-HB60-48 | 64-1/4 | 37-1/8 | 42-13/16 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

45° / 30° U-Style Fittings Horizontal Bends

Part Numbering System

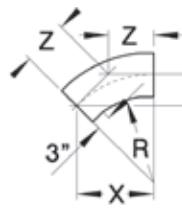
AUF-4-24-L-HB45-12

Width
Bottom style
Fitting type
Nominal radius
Fitting material and side rail
Side rail height

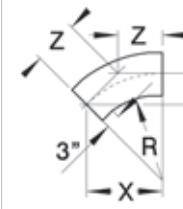
Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 4 in.–7 in.

45° Horizontal BEND – U-Style



30° Horizontal BEND – U-Style



| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|----------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AUF(t)-06-(*)-HB45-12 | 13-5/8 | 5-5/8 | 8 |
| | 9 | AUF(t)-09-(*)-HB45-12 | 14-11/16 | 6-1/16 | 8-9/16 |
| | 12 | AUF(t)-12-(*)-HB45-12 | 15-3/4 | 6-12 | 9-3/16 |
| | 18 | AUF(t)-18-(*)-HB45-12 | 17-7/8 | 7-3/8 | 10-7/16 |
| | 24 | AUF(t)-24-(*)-HB45-12 | 20 | 8-1/4 | 11-11/16 |
| | 30 | AUF(t)-30-(*)-HB45-12 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 36 | AUF(t)-36-(*)-HB45-12 | 24-3/16 | 10 | 14-3/16 |
| | 42 | AUF(t)-42-(*)-HB45-12 | 26-5/16 | 10-15/16 | 15-7/16 |
| 24 | 6 | AUF(t)-06-(*)-HB45-24 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 9 | AUF(t)-09-(*)-HB45-24 | 23-1/8 | 9-9/16 | 13-9/16 |
| | 12 | AUF(t)-12-(*)-HB45-24 | 24-3/16 | 10 | 14-3/16 |
| | 18 | AUF(t)-18-(*)-HB45-24 | 26-5/16 | 10-15/16 | 15-7/16 |
| | 24 | AUF(t)-24-(*)-HB45-24 | 28-7/16 | 11-13/16 | 16-11/16 |
| | 30 | AUF(t)-30-(*)-HB45-24 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 36 | AUF(t)-36-(*)-HB45-24 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 42 | AUF(t)-42-(*)-HB45-24 | 34-13/16 | 14-7/8 | 20-3/8 |
| 36 | 6 | AUF(t)-06-(*)-HB45-36 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 9 | AUF(t)-09-(*)-HB45-36 | 31-5/8 | 13-1/8 | 18-9/16 |
| | 12 | AUF(t)-12-(*)-HB45-36 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 18 | AUF(t)-18-(*)-HB45-36 | 34-13/16 | 14-7/16 | 20-3/8 |
| | 24 | AUF(t)-24-(*)-HB45-36 | 36-15/16 | 15-5/16 | 21-5/8 |
| | 30 | AUF(t)-30-(*)-HB45-36 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 36 | AUF(t)-36-(*)-HB45-36 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 42 | AUF(t)-42-(*)-HB45-36 | 43-5/16 | 17-15/16 | 25-3/8 |
| 48 | 6 | AUF(t)-06-(*)-HB45-48 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 9 | AUF(t)-09-(*)-HB45-48 | 40-1/8 | 16-3/8 | 23-1/2 |
| | 12 | AUF(t)-12-(*)-HB45-48 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 18 | AUF(t)-18-(*)-HB45-48 | 43-5/16 | 17-15/16 | 25-3/8 |
| | 24 | AUF(t)-24-(*)-HB45-48 | 45-7/16 | 18-13/16 | 26-5/8 |
| | 30 | AUF(t)-30-(*)-HB45-48 | 47-9/16 | 19-11/16 | 27-7/8 |
| | 36 | AUF(t)-36-(*)-HB45-48 | 49-11/16 | 20-9/16 | 29-1/8 |
| | 42 | AUF(t)-42-(*)-HB45-48 | 51-13/16 | 21-7/16 | 30-5/16 |

| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|---------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AUF(t)-06-(*)-HB30-12 | 11-5/8 | 3-18 | 6-3/16 |
| | 9 | AUF(t)-09-(*)-HB30-12 | 12-3/8 | 3-5/16 | 6-5/8 |
| | 12 | AUF(t)-12-(*)-HB30-12 | 13-1/2 | 3-1/2 | 7 |
| | 18 | AUF(t)-18-(*)-HB30-12 | 14-5/8 | 3-15/16 | 7-13/16 |
| | 24 | AUF(t)-24-(*)-HB30-12 | 16-1/8 | 4-5/16 | 8-5/8 |
| | 30 | AUF(t)-30-(*)-HB30-12 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 36 | AUF(t)-36-(*)-HB30-12 | 19-1/8 | 5-1/8 | 10-1/4 |
| | 42 | AUF(t)-42-(*)-HB30-12 | 20-5/8 | 5-1/2 | 11-1/16 |
| 24 | 6 | AUF(t)-06-(*)-HB30-24 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 9 | AUF(t)-09-(*)-HB30-24 | 18-3/8 | 4-15/16 | 9-13/16 |
| | 12 | AUF(t)-12-(*)-HB30-24 | 19-1/8 | 5-2/16 | 10-4/16 |
| | 18 | AUF(t)-18-(*)-HB30-24 | 20-5/8 | 5-8/16 | 11-1/16 |
| | 24 | AUF(t)-24-(*)-HB30-24 | 22-1/8 | 5-15/16 | 11-13/16 |
| | 30 | AUF(t)-30-(*)-HB30-24 | 23-5/8 | 6-5/16 | 12-10/16 |
| | 36 | AUF(t)-36-(*)-HB30-24 | 25-1/8 | 6-12/16 | 13-7/16 |
| | 42 | AUF(t)-42-(*)-HB30-24 | 26-5/8 | 7-1/8 | 14-1/4 |
| 36 | 6 | AUF(t)-06-(*)-HB30-36 | 23-5/8 | 6-5/16 | 12-5/8 |
| | 9 | AUF(t)-09-(*)-HB30-36 | 24-3/8 | 6-1/2 | 13-1/16 |
| | 12 | AUF(t)-12-(*)-HB30-36 | 25-1/8 | 6-3/4 | 13-7/16 |
| | 18 | AUF(t)-18-(*)-HB30-36 | 26-5/8 | 7-1/4 | 14-1/4 |
| | 24 | AUF(t)-24-(*)-HB30-36 | 28-1/8 | 7-1/2 | 15-1/16 |
| | 30 | AUF(t)-30-(*)-HB30-36 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 36 | AUF(t)-36-(*)-HB30-36 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 42 | AUF(t)-42-(*)-HB30-36 | 32-5/8 | 8-3/4 | 17-1/2 |
| 48 | 6 | AUF(t)-06-(*)-HB30-48 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 9 | AUF(t)-09-(*)-HB30-48 | 30-3/8 | 8-1/8 | 16-1/4 |
| | 12 | AUF(t)-12-(*)-HB30-48 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 18 | AUF(t)-18-(*)-HB30-48 | 32-5/8 | 8-3/4 | 17-1/2 |
| | 24 | AUF(t)-24-(*)-HB30-48 | 34-1/8 | 9-1/8 | 18-1/4 |
| | 30 | AUF(t)-30-(*)-HB30-48 | 35-5/8 | 9-9/16 | 19-1/16 |
| | 36 | AUF(t)-36-(*)-HB30-48 | 37-1/8 | 9-15/16 | 19-7/8 |
| | 42 | AUF(t)-42-(*)-HB30-48 | 38-5/8 | 10-5/16 | 20-11/16 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

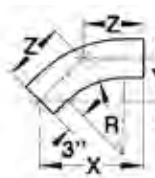
Fittings

45° / 30° H-Style Fittings Horizontal Bends

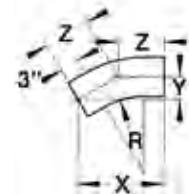
| Part Numbering System | | | | |
|--------------------------------|------------------|-------|--------------|----------------|
| AHF-4-24-L-HB45-12 | | | | |
| Fitting material and side rail | Side rail height | Width | Fitting type | Nominal radius |
| | | | | |
| | | | | |

| Selection Guide | | | | |
|--|--|--|--|--|
| Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 | | | | |
| Angle: 45°, 30° | | | | |
| Nominal Radius: 12, 24, 36, 48 | | | | |
| Bottom Styles: L—Ladder, V—Ventilated, S—Solid | | | | |
| Side rail Height: 4 in. – 7 in. | | | | |

45° Horizontal BEND – H-Style



30° Horizontal BEND – H-Style



| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|----------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AHF(t)-06-(*)-HB45-12 | 15-3/4 | 6-1/2 | 9-3/16 |
| | 9 | AHF(t)-09-(*)-HB45-12 | 16-13/16 | 6-15/16 | 9-13/16 |
| | 12 | AHF(t)-12-(*)-HB45-12 | 17-7/8 | 7-3/8 | 10-7/16 |
| | 18 | AHF(t)-18-(*)-HB45-12 | 20 | 8-1/4 | 11-11/16 |
| | 24 | AHF(t)-24-(*)-HB45-12 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 30 | AHF(t)-30-(*)-HB45-12 | 24-3/16 | 10 | 14-3/16 |
| | 36 | AHF(t)-36-(*)-HB45-12 | 26-5/16 | 10-15/16 | 15-7/16 |
| | 42 | AHF(t)-42-(*)-HB45-12 | 28-7/16 | 11-7/8 | 16-11/16 |
| 24 | 6 | AHF(t)-06-(*)-HB45-24 | 24-3/16 | 10 | 14-3/16 |
| | 9 | AHF(t)-09-(*)-HB45-24 | 25-1/4 | 10-1/2 | 14-13/16 |
| | 12 | AHF(t)-12-(*)-HB45-24 | 26-5/16 | 10-15/16 | 15-7/16 |
| | 18 | AHF(t)-18-(*)-HB45-24 | 28-7/16 | 11-13/16 | 16-11/16 |
| | 24 | AHF(t)-24-(*)-HB45-24 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 30 | AHF(t)-30-(*)-HB45-24 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 36 | AHF(t)-36-(*)-HB45-24 | 34-13/16 | 14-7/8 | 20-3/8 |
| | 42 | AHF(t)-42-(*)-HB45-24 | 36-15/16 | 15-3/4 | 21-5/8 |
| 36 | 6 | AHF(t)-06-(*)-HB45-36 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 9 | AHF(t)-09-(*)-HB45-36 | 33-3/4 | 14 | 19-3/4 |
| | 12 | AHF(t)-12-(*)-HB45-36 | 34-13/16 | 14-7/16 | 20-3/8 |
| | 18 | AHF(t)-18-(*)-HB45-36 | 36-15/16 | 15-5/16 | 21-5/8 |
| | 24 | AHF(t)-24-(*)-HB45-36 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 30 | AHF(t)-30-(*)-HB45-36 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 36 | AHF(t)-36-(*)-HB45-36 | 43-5/16 | 17-15/16 | 25-3/8 |
| | 42 | AHF(t)-42-(*)-HB45-36 | 45-7/16 | 18-13/16 | 26-5/8 |
| 48 | 6 | AHF(t)-06-(*)-HB45-48 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 9 | AHF(t)-09-(*)-HB45-48 | 42-1/4 | 17-1/2 | 24-3/4 |
| | 12 | AHF(t)-12-(*)-HB45-48 | 43-5/16 | 17-15/16 | 25-3/8 |
| | 18 | AHF(t)-18-(*)-HB45-48 | 45-7/16 | 18-13/16 | 26-5/8 |
| | 24 | AHF(t)-24-(*)-HB45-48 | 47-9/16 | 19-11/16 | 27-3/4 |
| | 30 | AHF(t)-30-(*)-HB45-48 | 49-11/16 | 20-9/16 | 29-1/8 |
| | 36 | AHF(t)-36-(*)-HB45-48 | 51-13/16 | 21-7/16 | 30-5/16 |
| | 42 | AHF(t)-42-(*)-HB45-48 | 53-15/16 | 22-5/16 | 31-9/16 |

| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|-----------------------|------------|----------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | AHF(t)-06-(*)-HB30-12 | 13-1/8 | 3-1/2 | 7 |
| | 9 | AHF(t)-09-(*)-HB30-12 | 13-7/8 | 3-11/16 | 7-7/16 |
| | 12 | AHF(t)-12-(*)-HB30-12 | 14-5/8 | 3-15/16 | 7-13/16 |
| | 18 | AHF(t)-18-(*)-HB30-12 | 16-1/8 | 4-5/16 | 8-5/8 |
| | 24 | AHF(t)-24-(*)-HB30-12 | 17-5/8 | 4-11/16 | 9-7/8 |
| | 30 | AHF(t)-30-(*)-HB30-12 | 19-1/8 | 5-1/8 | 10-1/4 |
| | 36 | AHF(t)-36-(*)-HB30-12 | 20-5/8 | 5-1/2 | 11-1/16 |
| | 42 | AHF(t)-42-(*)-HB30-12 | 22-1/8 | 5-7/8 | 12-5/16 |
| 24 | 6 | AHF(t)-06-(*)-HB30-24 | 19-1/8 | 5-1/8 | 10-1/4 |
| | 9 | AHF(t)-09-(*)-HB30-24 | 19-7/8 | 5-5/16 | 10-5/8 |
| | 12 | AHF(t)-12-(*)-HB30-24 | 20-5/8 | 5-1/2 | 11-1/16 |
| | 18 | AHF(t)-18-(*)-HB30-24 | 22-1/8 | 5-5/16 | 11-13/16 |
| | 24 | AHF(t)-24-(*)-HB30-24 | 23-5/8 | 6-5/16 | 12-5/8 |
| | 30 | AHF(t)-30-(*)-HB30-24 | 25-1/8 | 6-3/4 | 13-7/16 |
| | 36 | AHF(t)-36-(*)-HB30-24 | 26-5/8 | 7-1/8 | 14-1/4 |
| | 42 | AHF(t)-42-(*)-HB30-24 | 28-1/8 | 7-1/2 | 15-1/16 |
| 36 | 6 | AHF(t)-06-(*)-HB30-36 | 25-1/8 | 6-3/4 | 13-7/16 |
| | 9 | AHF(t)-09-(*)-HB30-36 | 25-7/8 | 6-15/16 | 13-7/8 |
| | 12 | AHF(t)-12-(*)-HB30-36 | 26-5/8 | 7-1/8 | 14-1/4 |
| | 18 | AHF(t)-18-(*)-HB30-36 | 28-1/8 | 7-1/2 | 15-1/16 |
| | 24 | AHF(t)-24-(*)-HB30-36 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 30 | AHF(t)-30-(*)-HB30-36 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 36 | AHF(t)-36-(*)-HB30-36 | 32-5/8 | 8-3/4 | 17-1/2 |
| | 42 | AHF(t)-42-(*)-HB30-36 | 34-1/8 | 9-1/8 | 18-5/16 |
| 48 | 6 | AHF(t)-06-(*)-HB30-48 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 9 | AHF(t)-09-(*)-HB30-48 | 31-7/8 | 8-9/16 | 17-1/16 |
| | 12 | AHF(t)-12-(*)-HB30-48 | 32-5/8 | 8-3/4 | 17-1/2 |
| | 18 | AHF(t)-18-(*)-HB30-48 | 34-1/8 | 9-1/8 | 18-1/4 |
| | 24 | AHF(t)-24-(*)-HB30-48 | 35-5/8 | 9-9/16 | 19-1/16 |
| | 30 | AHF(t)-30-(*)-HB30-48 | 37-1/8 | 9-15/16 | 19-7/8 |
| | 36 | AHF(t)-36-(*)-HB30-48 | 38-5/8 | 10-5/16 | 20-11/16 |
| | 42 | AHF(t)-42-(*)-HB30-48 | 40-1/8 | 10-11/16 | 21-1/2 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Tees, Crosses

Part Numbering System

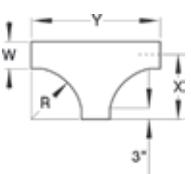
AUF-5-06-L-HT-12

Fitting material and side rail
Side rail height Width Fitting type Nominal radius
Bottom style

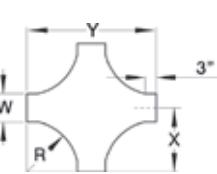
Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Side Rail Heights: 4 in. – 7 in.

Horizontal TEE – U-Style



Horizontal CROSS – U-Style



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|--------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | AUF(t)-06-(*)-HT12 | 15 | 30 |
| | 9 | AUF(t)-09-(*)-HT12 | 16-1/2 | 33 |
| | 12 | AUF(t)-12-(*)-HT12 | 18 | 36 |
| | 18 | AUF(t)-18-(*)-HT12 | 21 | 42 |
| | 24 | AUF(t)-24-(*)-HT12 | 24 | 48 |
| | 30 | AUF(t)-30-(*)-HT12 | 27 | 54 |
| | 36 | AUF(t)-36-(*)-HT12 | 30 | 60 |
| | 42 | AUF(t)-42-(*)-HT12 | 33 | 66 |
| 24 | 6 | AUF(t)-06-(*)-HT24 | 27 | 54 |
| | 9 | AUF(t)-09-(*)-HT24 | 28-1/2 | 57 |
| | 12 | AUF(t)-12-(*)-HT24 | 30 | 60 |
| | 18 | AUF(t)-18-(*)-HT24 | 33 | 66 |
| | 24 | AUF(t)-24-(*)-HT24 | 36 | 72 |
| | 30 | AUF(t)-30-(*)-HT24 | 39 | 78 |
| | 36 | AUF(t)-36-(*)-HT24 | 42 | 84 |
| | 42 | AUF(t)-42-(*)-HT24 | 45 | 90 |
| 36 | 6 | AUF(t)-06-(*)-HT36 | 39 | 78 |
| | 9 | AUF(t)-09-(*)-HT36 | 40-1/2 | 81 |
| | 12 | AUF(t)-12-(*)-HT36 | 42 | 84 |
| | 18 | AUF(t)-18-(*)-HT36 | 45 | 90 |
| | 24 | AUF(t)-24-(*)-HT36 | 48 | 96 |
| | 30 | AUF(t)-30-(*)-HT36 | 51 | 102 |
| | 36 | AUF(t)-36-(*)-HT36 | 54 | 108 |
| | 42 | AUF(t)-42-(*)-HT36 | 57 | 114 |
| 48 | 6 | AUF(t)-06-(*)-HT48 | 51 | 102 |
| | 9 | AUF(t)-09-(*)-HT48 | 52-1/2 | 105 |
| | 12 | AUF(t)-12-(*)-HT48 | 54 | 108 |
| | 18 | AUF(t)-18-(*)-HT48 | 57 | 114 |
| | 24 | AUF(t)-24-(*)-HT48 | 60 | 120 |
| | 30 | AUF(t)-30-(*)-HT48 | 63 | 126 |
| | 36 | AUF(t)-36-(*)-HT48 | 66 | 132 |
| | 42 | AUF(t)-42-(*)-HT48 | 69 | 138 |

| Nominal | | Cat. No. | Dimensions | |
|---------|-------|--------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | AUF(t)-06-(*)-HX12 | 15 | 30 |
| | 9 | AUF(t)-09-(*)-HX12 | 16-1/2 | 33 |
| | 12 | AUF(t)-12-(*)-HX12 | 18 | 36 |
| | 18 | AUF(t)-18-(*)-HX12 | 21 | 42 |
| | 24 | AUF(t)-24-(*)-HX12 | 24 | 48 |
| | 30 | AUF(t)-30-(*)-HX12 | 27 | 54 |
| | 36 | AUF(t)-36-(*)-HX12 | 30 | 60 |
| | 42 | AUF(t)-42-(*)-HX12 | 33 | 66 |
| 24 | 6 | AUF(t)-06-(*)-HX24 | 27 | 54 |
| | 9 | AUF(t)-09-(*)-HX24 | 28-1/2 | 57 |
| | 12 | AUF(t)-12-(*)-HX24 | 30 | 60 |
| | 18 | AUF(t)-18-(*)-HX24 | 33 | 66 |
| | 24 | AUF(t)-24-(*)-HX24 | 36 | 72 |
| | 30 | AUF(t)-30-(*)-HX24 | 39 | 78 |
| | 36 | AUF(t)-36-(*)-HX24 | 42 | 84 |
| | 42 | AUF(t)-42-(*)-HX24 | 45 | 90 |
| 36 | 6 | AUF(t)-06-(*)-HX36 | 39 | 78 |
| | 9 | AUF(t)-09-(*)-HX36 | 40-1/2 | 81 |
| | 12 | AUF(t)-12-(*)-HX36 | 42 | 84 |
| | 18 | AUF(t)-18-(*)-HX36 | 45 | 90 |
| | 24 | AUF(t)-24-(*)-HX36 | 48 | 96 |
| | 30* | AUF(t)-30-(*)-HX36 | 51 | 102 |
| | 36* | AUF(t)-36-(*)-HX36 | 54 | 108 |
| | 42* | AUF(t)-42-(*)-HX36 | 57 | 114 |
| 48* | 6 | AUF(t)-06-(*)-HX48 | 51 | 102 |
| | 9 | AUF(t)-09-(*)-HX48 | 52-1/2 | 105 |
| | 12 | AUF(t)-12-(*)-HX48 | 54 | 108 |
| | 18 | AUF(t)-18-(*)-HX48 | 57 | 114 |
| | 24 | AUF(t)-24-(*)-HX48 | 60 | 120 |
| | 30 | AUF(t)-30-(*)-HX48 | 63 | 126 |
| | 36 | AUF(t)-36-(*)-HX48 | 66 | 132 |
| | 42 | AUF(t)-42-(*)-HX48 | 69 | 138 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

* Shipped with SSW-3/8HXHWK hardware kit.

Fittings

H-Style Fittings Horizontal Tees, Crosses

Part Numbering System

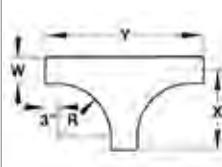
AHF-5-06-L-HT-12

Fitting material and side rail
Side rail height
Width
Bottom style
Fitting type
Nominal radius

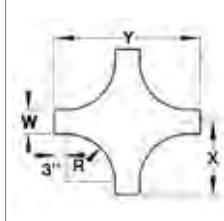
Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 4 in.–7 in.

Horizontal TEE – H-Style



Horizontal CROSS – H-Style



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|--------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | AHF(t)-06-(*)-HT12 | 18 | 36 |
| | 9 | AHF(t)-09-(*)-HT12 | 19-1/2 | 39 |
| | 12 | AHF(t)-12-(*)-HT12 | 21 | 42 |
| | 18 | AHF(t)-18-(*)-HT12 | 24 | 48 |
| | 24 | AHF(t)-24-(*)-HT12 | 27 | 54 |
| | 30 | AHF(t)-30-(*)-HT12 | 30 | 60 |
| | 36 | AHF(t)-36-(*)-HT12 | 33 | 66 |
| | 42 | AHF(t)-42-(*)-HT12 | 36 | 72 |
| 24 | 6 | AHF(t)-06-(*)-HT24 | 30 | 60 |
| | 9 | AHF(t)-09-(*)-HT24 | 31-1/2 | 63 |
| | 12 | AHF(t)-12-(*)-HT24 | 33 | 66 |
| | 18 | AHF(t)-18-(*)-HT24 | 36 | 72 |
| | 24 | AHF(t)-24-(*)-HT24 | 39 | 78 |
| | 30 | AHF(t)-30-(*)-HT24 | 42 | 84 |
| | 36 | AHF(t)-36-(*)-HT24 | 45 | 90 |
| | 42 | AHF(t)-42-(*)-HT24 | 48 | 96 |
| 36 | 6 | AHF(t)-06-(*)-HT36 | 42 | 84 |
| | 9 | AHF(t)-09-(*)-HT36 | 43-1/2 | 87 |
| | 12 | AHF(t)-12-(*)-HT36 | 45 | 90 |
| | 18 | AHF(t)-18-(*)-HT36 | 48 | 96 |
| | 24 | AHF(t)-24-(*)-HT36 | 51 | 102 |
| | 30 | AHF(t)-30-(*)-HT36 | 54 | 108 |
| | 36 | AHF(t)-36-(*)-HT36 | 57 | 114 |
| | 42 | AHF(t)-42-(*)-HT36 | 60 | 120 |
| 48 | 6 | AHF(t)-06-(*)-HT48 | 54 | 108 |
| | 9 | AHF(t)-09-(*)-HT48 | 55-1/2 | 111 |
| | 12 | AHF(t)-12-(*)-HT48 | 57 | 114 |
| | 18 | AHF(t)-18-(*)-HT48 | 60 | 120 |
| | 24 | AHF(t)-24-(*)-HT48 | 63 | 126 |
| | 30 | AHF(t)-30-(*)-HT48 | 66 | 132 |
| | 36 | AHF(t)-36-(*)-HT48 | 69 | 138 |
| | 42 | AHF(t)-42-(*)-HT48 | 72 | 144 |

| Nominal | | Cat. No. | Dimensions | |
|-----------------|-----------------|--------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | AHF(t)-06-(*)-HX12 | 18 | 36 |
| | 9 | AHF(t)-09-(*)-HX12 | 19-1/2 | 39 |
| | 12 | AHF(t)-12-(*)-HX12 | 21 | 42 |
| | 18 | AHF(t)-18-(*)-HX12 | 24 | 48 |
| | 24 | AHF(t)-24-(*)-HX12 | 27 | 54 |
| | 30 | AHF(t)-30-(*)-HX12 | 30 | 60 |
| | 36 | AHF(t)-36-(*)-HX12 | 33 | 66 |
| | 42 | AHF(t)-42-(*)-HX12 | 36 | 72 |
| 24 | 6 | AHF(t)-06-(*)-HX24 | 30 | 60 |
| | 9 | AHF(t)-09-(*)-HX24 | 31-1/2 | 63 |
| | 12 | AHF(t)-12-(*)-HX24 | 33 | 66 |
| | 18 | AHF(t)-18-(*)-HX24 | 36 | 72 |
| | 24 | AHF(t)-24-(*)-HX24 | 39 | 78 |
| | 30 | AHF(t)-30-(*)-HX24 | 42 | 84 |
| | 36 | AHF(t)-36-(*)-HX24 | 45 | 90 |
| | 42 | AHF(t)-42-(*)-HX24 | 48 | 96 |
| 36 | 6 | AHF(t)-06-(*)-HX36 | 42 | 84 |
| | 9 | AHF(t)-09-(*)-HX36 | 43-1/2 | 87 |
| | 12 | AHF(t)-12-(*)-HX36 | 45 | 90 |
| | 18 | AHF(t)-18-(*)-HX36 | 48 | 96 |
| | 24 ^Y | AHF(t)-24-(*)-HX36 | 51 | 102 |
| | 30 ^Y | AHF(t)-30-(*)-HX36 | 54 | 108 |
| | 36 ^Y | AHF(t)-36-(*)-HX36 | 57 | 114 |
| | 42 ^Y | AHF(t)-42-(*)-HX36 | 60 | 120 |
| 48 ^Y | 6 | AHF(t)-06-(*)-HX48 | 54 | 108 |
| | 9 | AHF(t)-09-(*)-HX48 | 55-1/2 | 111 |
| | 12 | AHF(t)-12-(*)-HX48 | 57 | 114 |
| | 18 | AHF(t)-18-(*)-HX48 | 60 | 120 |
| | 24 | AHF(t)-24-(*)-HX48 | 63 | 126 |
| | 30 | AHF(t)-30-(*)-HX48 | 66 | 132 |
| | 36 | AHF(t)-36-(*)-HX48 | 69 | 138 |
| | 42 | AHF(t)-42-(*)-HX48 | 72 | 144 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

¥ Shipped with SSW-3/8HXHWK hardware kit.

Fittings

U-Style Fittings Horizontal Reducing Tees

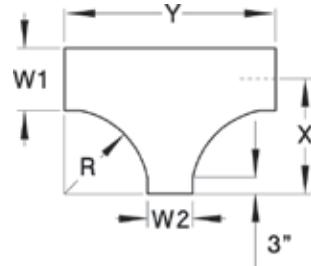
Part Numbering System

AUF-7-36-24-L-RT-12

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9
 Tray Widths W2: 36, 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 4 in.–7 in.

Horizontal REDUCING TEE – U-Style



| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | | (+) 48 in. Nominal Radius | |
|--------|----|-----------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 42 | 36 | AUF(t)-4236-(*)-RT(+) | 33 | 60 | 45 | 84 | 57 | 108 | 69 | 132 |
| | 30 | AUF(t)-4230-(*)-RT(+) | 33 | 54 | 45 | 78 | 57 | 102 | 69 | 126 |
| | 24 | AUF(t)-4224-(*)-RT(+) | 33 | 48 | 45 | 72 | 57 | 96 | 69 | 120 |
| | 18 | AUF(t)-4218-(*)-RT(+) | 33 | 42 | 45 | 66 | 57 | 90 | 69 | 114 |
| | 12 | AUF(t)-4212-(*)-RT(+) | 33 | 36 | 45 | 60 | 57 | 84 | 69 | 108 |
| | 9 | AUF(t)-4209-(*)-RT(+) | 33 | 33 | 45 | 57 | 57 | 81 | 69 | 105 |
| | 6 | AUF(t)-4206-(*)-RT(+) | 33 | 30 | 45 | 54 | 57 | 78 | 69 | 102 |
| 36 | 30 | AUF(t)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 24 | AUF(t)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 18 | AUF(t)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 12 | AUF(t)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| | 9 | AUF(t)-3609-(*)-RT(+) | 30 | 33 | 42 | 57 | 54 | 81 | 66 | 105 |
| | 6 | AUF(t)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 | 66 | 102 |
| 30 | 24 | AUF(t)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 18 | AUF(t)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 12 | AUF(t)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| | 9 | AUF(t)-3009-(*)-RT(+) | 27 | 33 | 39 | 57 | 51 | 81 | 63 | 105 |
| | 6 | AUF(t)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 | 63 | 102 |
| | 18 | AUF(t)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| 24 | 12 | AUF(t)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| | 9 | AUF(t)-2409-(*)-RT(+) | 24 | 33 | 36 | 57 | 48 | 81 | 60 | 105 |
| | 6 | AUF(t)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 | 60 | 102 |
| | 12 | AUF(t)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| 18 | 9 | AUF(t)-1809-(*)-RT(+) | 21 | 33 | 33 | 57 | 45 | 81 | 57 | 105 |
| | 6 | AUF(t)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 | 57 | 102 |
| | 9 | AUF(t)-1209-(*)-RT(+) | 18 | 33 | 30 | 57 | 42 | 81 | 54 | 105 |
| 12 | 6 | AUF(t)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 | 54 | 102 |
| | 6 | AUF(t)-0906-(*)-RT(+) | 16-1/2 | 30 | 28-1/2 | 54 | 40-1/2 | 78 | 52-1/2 | 102 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Reducing Tees

Part Numbering System

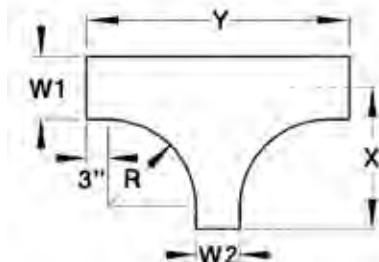
AHF-7-36-24-L-RT-12

| | | | |
|--------------------------------|---------|--------------|----------------|
| Fitting material and side rail | Width 1 | Bottom style | Nominal radius |
| Side rail height | Width 2 | | |
| | | Fitting type | |

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9
 Tray Widths W2: 36, 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L—Ladder, V—Ventilated, S—Solid
 Side Rail Heights: 4 in. – 7 in.

Horizontal REDUCING TEE – H-Style



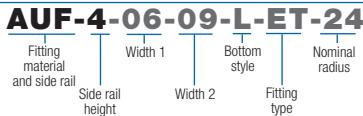
| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | | (+) 48 in. Nominal Radius | |
|--------|----|------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 42 | 36 | AHF(t)-4236-(*)-RT(+)† | 36 | 66 | 48 | 90 | 60 | 114 | 72 | 138 |
| | 30 | AHF(t)-4230-(*)-RT(+)† | 36 | 60 | 48 | 84 | 60 | 108 | 72 | 132 |
| | 24 | AHF(t)-4224-(*)-RT(+)† | 36 | 54 | 48 | 78 | 60 | 102 | 72 | 126 |
| | 18 | AHF(t)-4218-(*)-RT(+)† | 36 | 48 | 48 | 72 | 60 | 96 | 72 | 120 |
| | 12 | AHF(t)-4212-(*)-RT(+)† | 36 | 42 | 48 | 66 | 60 | 90 | 72 | 114 |
| | 9 | AHF(t)-4209-(*)-RT(+)† | 36 | 39 | 48 | 63 | 60 | 87 | 72 | 111 |
| | 6 | AHF(t)-4206-(*)-RT(+)† | 36 | 36 | 48 | 60 | 60 | 84 | 72 | 108 |
| 36 | 30 | AHF(t)-3630-(*)-RT(+)† | 33 | 60 | 45 | 84 | 57 | 108 | 69 | 132 |
| | 24 | AHF(t)-3624-(*)-RT(+)† | 33 | 54 | 45 | 78 | 57 | 102 | 69 | 126 |
| | 18 | AHF(t)-3618-(*)-RT(+)† | 33 | 48 | 45 | 72 | 57 | 96 | 69 | 120 |
| | 12 | AHF(t)-3612-(*)-RT(+)† | 33 | 42 | 45 | 66 | 57 | 90 | 69 | 114 |
| | 9 | AHF(t)-3609-(*)-RT(+)† | 33 | 39 | 45 | 63 | 57 | 87 | 69 | 111 |
| | 6 | AHF(t)-3606-(*)-RT(+)† | 33 | 36 | 45 | 60 | 57 | 84 | 69 | 108 |
| 30 | 24 | AHF(t)-3024-(*)-RT(+)† | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 18 | AHF(t)-3018-(*)-RT(+)† | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 12 | AHF(t)-3012-(*)-RT(+)† | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 9 | AHF(t)-3009-(*)-RT(+)† | 30 | 39 | 42 | 63 | 54 | 87 | 66 | 111 |
| | 6 | AHF(t)-3006-(*)-RT(+)† | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| 24 | 18 | AHF(t)-2418-(*)-RT(+)† | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 12 | AHF(t)-2412-(*)-RT(+)† | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 9 | AHF(t)-2409-(*)-RT(+)† | 27 | 39 | 39 | 63 | 51 | 87 | 63 | 111 |
| | 6 | AHF(t)-2406-(*)-RT(+)† | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| 18 | 12 | AHF(t)-1812-(*)-RT(+)† | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 9 | AHF(t)-1809-(*)-RT(+)† | 24 | 39 | 36 | 63 | 48 | 87 | 60 | 111 |
| | 6 | AHF(t)-1806-(*)-RT(+)† | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| 12 | 9 | AHF(t)-1209-(*)-RT(+)† | 21 | 39 | 33 | 63 | 45 | 87 | 57 | 111 |
| | 6 | AHF(t)-1206-(*)-RT(+)† | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| 9 | 6 | AHF(t)-0906-(*)-RT(+)† | 19-1/2 | 36 | 31-1/2 | 60 | 43-1/2 | 84 | 55-1/2 | 108 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Expanding Tees

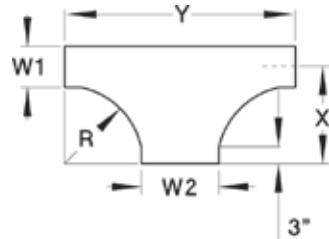
Part Numbering System



Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 42, 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Side Rail Heights: 4 in. – 7 in.

Horizontal EXPANDING TEE – U-Style



| Widths | | Cat. No. | (+ 12 in. Nominal Radius) | | (+ 24 in. Nominal Radius) | | (+ 36 in. Nominal Radius) | | (+ 48 in. Nominal Radius) | |
|-----------|----|-----------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 | AUF(t)-3642-(*)-ET(+) | 30 | 66 | 42 | 90 | 54 | 114 | 66 | 138 |
| | 36 | AUF(t)-3036-(*)-ET(+) | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| 30 | 42 | AUF(t)-3042-(*)-ET(+) | 27 | 66 | 39 | 90 | 51 | 114 | 63 | 138 |
| | 30 | AUF(t)-2430-(*)-ET(+) | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| 24 | 36 | AUF(t)-2436-(*)-ET(+) | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| | 42 | AUF(t)-2442-(*)-ET(+) | 24 | 66 | 36 | 90 | 48 | 114 | 60 | 138 |
| 18 | 24 | AUF(t)-1824-(*)-ET(+) | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 30 | AUF(t)-1830-(*)-ET(+) | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 36 | AUF(t)-1836-(*)-ET(+) | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| | 42 | AUF(t)-1842-(*)-ET(+) | 21 | 66 | 33 | 90 | 45 | 114 | 57 | 138 |
| 12 | 18 | AUF(t)-1218-(*)-ET(+) | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 24 | AUF(t)-1224-(*)-ET(+) | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 30 | AUF(t)-1230-(*)-ET(+) | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 36 | AUF(t)-1236-(*)-ET(+) | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| | 42 | AUF(t)-1242-(*)-ET(+) | 18 | 66 | 30 | 90 | 42 | 114 | 54 | 138 |
| 9 | 12 | AUF(t)-0912-(*)-ET(+) | 16-1/2 | 36 | 28-1/2 | 60 | 40-1/2 | 84 | 52-1/2 | 108 |
| | 18 | AUF(t)-0918-(*)-ET(+) | 16-1/2 | 42 | 28-1/2 | 66 | 40-1/2 | 90 | 52-1/2 | 114 |
| | 24 | AUF(t)-0924-(*)-ET(+) | 16-1/2 | 48 | 28-1/2 | 72 | 40-1/2 | 96 | 52-1/2 | 120 |
| | 30 | AUF(t)-0930-(*)-ET(+) | 16-1/2 | 54 | 28-1/2 | 78 | 40-1/2 | 102 | 52-1/2 | 126 |
| | 36 | AUF(t)-0936-(*)-ET(+) | 16-1/2 | 60 | 28-1/2 | 84 | 40-1/2 | 108 | 52-1/2 | 132 |
| | 42 | AUF(t)-0942-(*)-ET(+) | 16-1/2 | 66 | 28-1/2 | 90 | 40-1/2 | 114 | 52-1/2 | 138 |
| 6 | 9 | AUF(t)-0609-(*)-ET(+) | 15 | 33 | 27 | 57 | 39 | 81 | 51 | 105 |
| | 12 | AUF(t)-0612-(*)-ET(+) | 15 | 36 | 27 | 60 | 39 | 84 | 51 | 108 |
| | 18 | AUF(t)-0618-(*)-ET(+) | 15 | 42 | 27 | 66 | 39 | 90 | 51 | 114 |
| | 24 | AUF(t)-0624-(*)-ET(+) | 15 | 48 | 27 | 72 | 39 | 96 | 51 | 120 |
| | 30 | AUF(t)-0630-(*)-ET(+) | 15 | 54 | 27 | 78 | 39 | 102 | 51 | 126 |
| | 36 | AUF(t)-0636-(*)-ET(+) | 15 | 60 | 27 | 84 | 39 | 108 | 51 | 132 |
| | 42 | AUF(t)-0642-(*)-ET(+) | 15 | 66 | 27 | 90 | 39 | 114 | 51 | 138 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

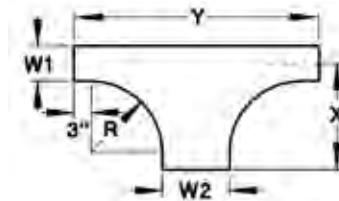
Fittings

H-Style Fittings Horizontal Expanding Tees

| Part Numbering System | | | |
|--------------------------------|---------|--------------|----------------|
| AHF-4-06-09-L-ET-24 | | | |
| Fitting material and side rail | Width 1 | Bottom style | Nominal radius |
| Side rail height | Width 2 | Fitting type | |

| Selection Guide | |
|--|--|
| Tray Widths W1: 30, 24, 18, 12, 9, 6 | |
| Tray Widths W2: 42, 36, 30, 24, 18, 12, 9 | |
| Nominal Radius: 12, 24, 36, 48 | |
| Bottom Styles: L—Ladder, V—Ventilated, S—Solid | |
| Side Rail Heights: 4 in. – 7 in. | |

Horizontal EXPANDING TEE – H-Style



| W1 | W2 | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | | (+) 48 in. Nominal Radius | |
|-----------|----|------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| | | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 | AHF(t)-3642-(*)-ET(+)† | 33 | 72 | 45 | 96 | 57 | 120 | 69 | 144 |
| 30 | 36 | AHF(t)-3036-(*)-ET(+)† | 30 | 66 | 42 | 90 | 54 | 114 | 66 | 138 |
| | 42 | AHF(t)-3042-(*)-ET(+)† | 30 | 72 | 42 | 96 | 54 | 120 | 66 | 144 |
| 24 | 30 | AHF(t)-2430-(*)-ET(+)† | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| | 36 | AHF(t)-2436-(*)-ET(+)† | 27 | 66 | 39 | 90 | 51 | 114 | 63 | 138 |
| | 42 | AHF(t)-2442-(*)-ET(+)† | 27 | 72 | 39 | 96 | 51 | 120 | 63 | 144 |
| 18 | 24 | AHF(t)-1824-(*)-ET(+)† | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 30 | AHF(t)-1830-(*)-ET(+)† | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| | 36 | AHF(t)-1836-(*)-ET(+)† | 24 | 66 | 36 | 90 | 48 | 114 | 60 | 138 |
| | 42 | AHF(t)-1842-(*)-ET(+)† | 24 | 72 | 36 | 96 | 48 | 120 | 60 | 144 |
| 12 | 18 | AHF(t)-1218-(*)-ET(+)† | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| | 24 | AHF(t)-1224-(*)-ET(+)† | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 30 | AHF(t)-1230-(*)-ET(+)† | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| | 36 | AHF(t)-1236-(*)-ET(+)† | 21 | 66 | 33 | 90 | 45 | 114 | 57 | 138 |
| | 42 | AHF(t)-1242-(*)-ET(+)† | 21 | 72 | 33 | 96 | 45 | 120 | 57 | 144 |
| 9 | 12 | AHF(t)-0912-(*)-ET(+)† | 19-1/2 | 42 | 31-1/2 | 66 | 43-1/2 | 90 | 55-1/2 | 114 |
| | 18 | AHF(t)-0918-(*)-ET(+)† | 19-1/2 | 48 | 31-1/2 | 72 | 43-1/2 | 96 | 55-1/2 | 120 |
| | 24 | AHF(t)-0924-(*)-ET(+)† | 19-1/2 | 54 | 31-1/2 | 78 | 43-1/2 | 102 | 55-1/2 | 126 |
| | 30 | AHF(t)-0930-(*)-ET(+)† | 19-1/2 | 60 | 31-1/2 | 84 | 43-1/2 | 108 | 55-1/2 | 132 |
| | 36 | AHF(t)-0936-(*)-ET(+)† | 19-1/2 | 66 | 31-1/2 | 90 | 43-1/2 | 114 | 55-1/2 | 138 |
| | 42 | AHF(t)-0942-(*)-ET(+)† | 19-1/2 | 72 | 31-1/2 | 96 | 43-1/2 | 120 | 55-1/2 | 144 |
| 6 | 9 | AHF(t)-0609-(*)-ET(+)† | 18 | 39 | 30 | 63 | 42 | 87 | 54 | 111 |
| | 12 | AHF(t)-0612-(*)-ET(+)† | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| | 18 | AHF(t)-0618-(*)-ET(+)† | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 24 | AHF(t)-0624-(*)-ET(+)† | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 30 | AHF(t)-0630-(*)-ET(+)† | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| | 36 | AHF(t)-0636-(*)-ET(+)† | 18 | 66 | 30 | 90 | 42 | 114 | 54 | 138 |
| | 42 | AHF(t)-0642-(*)-ET(+)† | 18 | 72 | 30 | 96 | 42 | 120 | 54 | 144 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Expanding Crosses

Part Numbering System

AUF-5-18-24-L-EX36

| | | | |
|--------------------------------|---------|--------------|----------------|
| Fitting material and side rail | Width 1 | Bottom style | Nominal radius |
| Side rail height | Width 2 | | Fitting type |

Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6

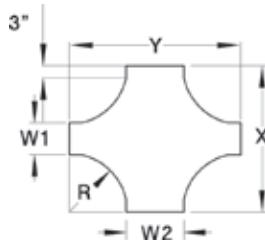
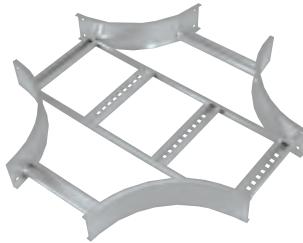
Tray Widths W2: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L–Ladder, V–Ventilated, S–Solid

Side Rail Heights: 4 in.–7 in.

Horizontal EXPANDING CROSS – U-Style



| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius ² | | (+) 48 in. Nominal Radius ¹ | |
|-----------|----|-----------------------|---------------------------|----|---------------------------|----|--|-----|--|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 | AUF(t)-3642-(*)-EX(+) | 60 | 66 | 84 | 90 | 108 | 114 | 132 | 138 |
| | 36 | AUF(t)-3036-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| 30 | 42 | AUF(t)-3042-(*)-EX(+) | 54 | 66 | 78 | 90 | 102 | 114 | 126 | 138 |
| | 30 | AUF(t)-2430-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| 24 | 36 | AUF(t)-2436-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| | 42 | AUF(t)-2442-(*)-EX(+) | 48 | 66 | 72 | 90 | 96 | 114 | 120 | 138 |
| 18 | 24 | AUF(t)-1824-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| | 30 | AUF(t)-1830-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| 12 | 36 | AUF(t)-1836-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| | 42 | AUF(t)-1842-(*)-EX(+) | 42 | 66 | 66 | 90 | 90 | 114 | 114 | 138 |
| 9 | 18 | AUF(t)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 24 | AUF(t)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | AUF(t)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 36 | AUF(t)-1236-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| | 42 | AUF(t)-1242-(*)-EX(+) | 36 | 66 | 60 | 90 | 84 | 114 | 108 | 138 |
| 6 | 12 | AUF(t)-0912-(*)-EX(+) | 33 | 36 | 57 | 60 | 81 | 84 | 105 | 108 |
| | 18 | AUF(t)-0918-(*)-EX(+) | 33 | 42 | 57 | 66 | 81 | 90 | 105 | 114 |
| | 24 | AUF(t)-0924-(*)-EX(+) | 33 | 48 | 57 | 72 | 81 | 96 | 105 | 120 |
| | 30 | AUF(t)-0930-(*)-EX(+) | 33 | 54 | 57 | 78 | 81 | 102 | 105 | 126 |
| | 36 | AUF(t)-0936-(*)-EX(+) | 33 | 60 | 57 | 84 | 81 | 108 | 105 | 132 |
| | 42 | AUF(t)-0942-(*)-EX(+) | 33 | 66 | 57 | 90 | 81 | 114 | 105 | 138 |
| 6 | 9 | AUF(t)-0609-(*)-EX(+) | 30 | 33 | 54 | 57 | 78 | 81 | 102 | 105 |
| | 12 | AUF(t)-0612-(*)-EX(+) | 30 | 36 | 54 | 60 | 78 | 84 | 102 | 108 |
| | 18 | AUF(t)-0618-(*)-EX(+) | 30 | 42 | 54 | 66 | 78 | 90 | 102 | 114 |
| | 24 | AUF(t)-0624-(*)-EX(+) | 30 | 48 | 54 | 72 | 78 | 96 | 102 | 120 |
| | 30 | AUF(t)-0630-(*)-EX(+) | 30 | 54 | 54 | 78 | 78 | 102 | 102 | 126 |
| | 36 | AUF(t)-0636-(*)-EX(+) | 30 | 60 | 54 | 84 | 78 | 108 | 102 | 132 |
| | 42 | AUF(t)-0642-(*)-EX(+) | 30 | 66 | 54 | 90 | 78 | 114 | 102 | 138 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in.–48 in.). Includes 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

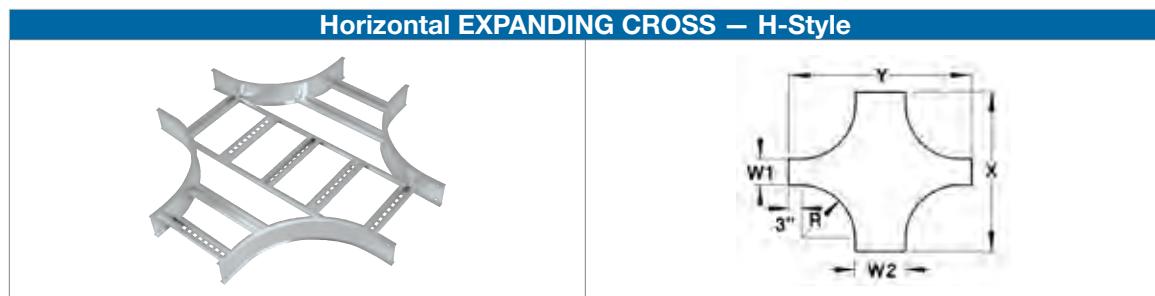
¹ All 48 in. radius crosses shipped with SSW-3/8HXHWK hardware kit.

² All 36 in. radius crosses with width (W1) 30 in. or larger shipped with SSW-3/8HXHWK hardware kit.

Fittings

H-Style Fittings Horizontal Expanding Crosses

| Part Numbering System | | | | Selection Guide | | | |
|--------------------------------|---------|--------------|----------------|--------------------------------------|---|--------------------------------|--|
| AHF-5-30-36-L-EX-36 | | | | | | | |
| Fitting material and side rail | Width 1 | Bottom style | Nominal radius | Tray Widths W1: 30, 24, 18, 12, 9, 6 | Tray Widths W2: 42, 36, 30, 24, 18, 12, 9 | Nominal Radius: 12, 24, 36, 48 | Bottom Styles: L–Ladder, V–Ventilated, S–Solid |
| Side rail height | Width 2 | Fitting type | | Side Rail Heights: 4 in. – 7 in. | | | |



| Widths | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius ² | | (+) 48 in. Nominal Radius ¹ | |
|-----------|--|---------------------------|----|---------------------------|----|--|-----|--|-----|
| | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 AHF(t)-3642-(*)-EX(+) | 66 | 72 | 90 | 96 | 114 | 120 | 138 | 144 |
| 30 | 36 AHF(t)-3036-(*)-EX(+) | 60 | 66 | 84 | 90 | 108 | 114 | 132 | 138 |
| | 42 AHF(t)-3042-(*)-EX(+) | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |
| 24 | 30 AHF(t)-2430-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| | 36 AHF(t)-2436-(*)-EX(+) | 54 | 66 | 78 | 90 | 102 | 114 | 126 | 138 |
| | 42 AHF(t)-2442-(*)-EX(+) | 54 | 75 | 78 | 96 | 102 | 120 | 126 | 144 |
| | 24 AHF(t)-1824-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| 18 | 30 AHF(t)-1830-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| | 36 AHF(t)-1836-(*)-EX(+) | 48 | 66 | 72 | 90 | 96 | 114 | 120 | 138 |
| | 42 AHF(t)-1842-(*)-EX(+) | 478 | 72 | 72 | 96 | 96 | 120 | 120 | 144 |
| | 18 AHF(t)-1218-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| 12 | 24 AHF(t)-1224-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 30 AHF(t)-1230-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| | 36 AHF(t)-1236-(*)-EX(+) | 42 | 66 | 66 | 90 | 90 | 114 | 114 | 138 |
| | 42 AHF(t)-1242-(*)-EX(+) | 42 | 72 | 66 | 96 | 90 | 120 | 114 | 144 |
| 9 | 12 AHF(t)-0912-(*)-EX(+) | 39 | 42 | 63 | 66 | 87 | 90 | 111 | 114 |
| | 18 AHF(t)-0918-(*)-EX(+) | 39 | 48 | 63 | 72 | 87 | 96 | 111 | 120 |
| | 24 AHF(t)-0924-(*)-EX(+) | 39 | 54 | 63 | 78 | 87 | 102 | 111 | 126 |
| | 30 AHF(t)-0930-(*)-EX(+) | 39 | 60 | 63 | 84 | 87 | 108 | 111 | 132 |
| | 36 AHF(t)-0936-(*)-EX(+) | 39 | 66 | 63 | 90 | 87 | 114 | 111 | 138 |
| | 42 AHF(t)-0942-(*)-EX(+) | 39 | 72 | 63 | 96 | 87 | 120 | 111 | 144 |
| 6 | 9 AHF(t)-0609-(*)-EX(+) | 36 | 39 | 60 | 63 | 84 | 87 | 108 | 111 |
| | 12 AHF(t)-0612-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| | 18 AHF(t)-0618-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 24 AHF(t)-0624-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 30 AHF(t)-0630-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| | 36 AHF(t)-0636-(*)-EX(+) | 36 | 66 | 60 | 90 | 84 | 114 | 108 | 138 |
| | 42 AHF(t)-0642-(*)-EX(+) | 36 | 72 | 60 | 96 | 84 | 120 | 108 | 144 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. – 48 in.). Includes 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

¹ All 48 in. radius crosses shipped with SSW-3/8HXHWK hardware kit.

² All 36 in. radius crosses with width (W1) 24 in. or larger shipped with SSW-3/8HXHWK hardware kit.

Fittings

U-Style Fittings Reducers

Part Numbering System

| | | | | | | | | | | |
|--------------------------------|---------|---|---|--------------|---------|----|---|--------------|---|-----|
| AUF | - | 6 | - | 36 | - | 18 | - | L | - | HLR |
| Fitting material and side rail | Width 1 | | | Bottom style | Width 2 | | | Fitting type | | |
| Side rail height | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9, 6
 Tray Widths W2: 36, 30, 24, 18, 12, 9, 6
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Side Rail Heights: 4 in. – 7 in.

Horizontal REDUCERS – U-Style

Offset Reducer - Right



Reducer - Straight



Offset Reducer - Left



| Widths | | Left Reducer | | Straight Reducer (Concentric) | | Right Reducer | |
|--------|----|----------------------|----------|-------------------------------|----------|----------------------|----------|
| W1 | W2 | Cat. No. | Dim. X | Cat. No. | Dim. X | Cat. No. | Dim. X |
| 42 | 36 | AUF(t)-42-36-(*)-HLR | 15-7/16 | AUF(t)-42-36-(*)-HSR | 13-3/4 | AUF(t)-42-36-(*)-HRR | 15-7/16 |
| | 30 | AUF(t)-42-30-(*)-HLR | 18-15/16 | AUF(t)-42-30-(*)-HSR | 15-7/16 | AUF(t)-42-30-(*)-HRR | 18-15/16 |
| | 24 | AUF(t)-42-24-(*)-HLR | 22-3/8 | AUF(t)-42-24-(*)-HSR | 17-3/16 | AUF(t)-42-24-(*)-HRR | 22-3/8 |
| | 18 | AUF(t)-42-18-(*)-HLR | 25-7/8 | AUF(t)-42-18-(*)-HSR | 18-5/16 | AUF(t)-42-18-(*)-HRR | 25-7/8 |
| | 12 | AUF(t)-42-12-(*)-HLR | 29-5/16 | AUF(t)-42-12-(*)-HSR | 20-5/8 | AUF(t)-42-12-(*)-HRR | 29-5/16 |
| | 9 | AUF(t)-42-09-(*)-HLR | 31-1/16 | AUF(t)-42-09-(*)-HSR | 21-1/2 | AUF(t)-42-09-(*)-HRR | 31-1/16 |
| | 6 | AUF(t)-42-06-(*)-HLR | 32-3/4 | AUF(t)-42-06-(*)-HSR | 22-3/8 | AUF(t)-42-06-(*)-HRR | 32-3/4 |
| 36 | 30 | AUF(t)-36-30-(*)-HLR | 15-7/16 | AUF(t)-36-30-(*)-HSR | 13-3/4 | AUF(t)-36-30-(*)-HRR | 15-7/16 |
| | 24 | AUF(t)-36-24-(*)-HLR | 18-15/16 | AUF(t)-36-24-(*)-HSR | 15-7/16 | AUF(t)-36-24-(*)-HRR | 18-15/16 |
| | 18 | AUF(t)-36-18-(*)-HLR | 22-3/8 | AUF(t)-36-18-(*)-HSR | 17-3/8 | AUF(t)-36-18-(*)-HRR | 22-3/8 |
| | 12 | AUF(t)-36-12-(*)-HLR | 25-7/8 | AUF(t)-36-12-(*)-HSR | 18-5/16 | AUF(t)-36-12-(*)-HRR | 25-7/8 |
| | 9 | AUF(t)-36-09-(*)-HLR | 27-9/16 | AUF(t)-36-09-(*)-HSR | 19-13/16 | AUF(t)-36-09-(*)-HRR | 27-9/16 |
| | 6 | AUF(t)-36-06-(*)-HLR | 29-5/16 | AUF(t)-36-06-(*)-HSR | 20-11/16 | AUF(t)-36-06-(*)-HRR | 29-5/16 |
| 30 | 24 | AUF(t)-30-24-(*)-HLR | 15-7/16 | AUF(t)-30-24-(*)-HSR | 13-3/4 | AUF(t)-30-24-(*)-HRR | 15-7/16 |
| | 18 | AUF(t)-30-18-(*)-HLR | 18-15/16 | AUF(t)-30-18-(*)-HSR | 15-7/16 | AUF(t)-30-18-(*)-HRR | 18-15/16 |
| | 12 | AUF(t)-30-12-(*)-HLR | 22-3/8 | AUF(t)-30-12-(*)-HSR | 17-3/16 | AUF(t)-30-12-(*)-HRR | 22-3/8 |
| | 9 | AUF(t)-30-09-(*)-HLR | 24-1/8 | AUF(t)-30-09-(*)-HSR | 18-1/16 | AUF(t)-30-09-(*)-HRR | 24-1/8 |
| | 6 | AUF(t)-30-06-(*)-HLR | 25-7/8 | AUF(t)-30-06-(*)-HSR | 18-15/16 | AUF(t)-30-06-(*)-HRR | 25-7/8 |
| 24 | 18 | AUF(t)-24-18-(*)-HLR | 15-7/16 | AUF(t)-24-18-(*)-HSR | 13-3/4 | AUF(t)-24-18-(*)-HRR | 15-7/16 |
| | 12 | AUF(t)-24-12-(*)-HLR | 18-15/16 | AUF(t)-24-12-(*)-HSR | 15-7/16 | AUF(t)-24-12-(*)-HRR | 18-15/16 |
| | 9 | AUF(t)-24-09-(*)-HLR | 20-11/16 | AUF(t)-24-09-(*)-HSR | 16-5/16 | AUF(t)-24-09-(*)-HRR | 20-11/16 |
| | 6 | AUF(t)-24-06-(*)-HLR | 22-3/8 | AUF(t)-24-06-(*)-HSR | 17-3/16 | AUF(t)-24-06-(*)-HRR | 22-3/8 |
| 18 | 12 | AUF(t)-18-12-(*)-HLR | 15-7/16 | AUF(t)-18-12-(*)-HSR | 13-3/4 | AUF(t)-18-12-(*)-HRR | 15-7/16 |
| | 9 | AUF(t)-18-09-(*)-HLR | 17-3/16 | AUF(t)-18-09-(*)-HSR | 14-5/8 | AUF(t)-18-09-(*)-HRR | 17-3/16 |
| | 6 | AUF(t)-18-06-(*)-HLR | 18-15/16 | AUF(t)-18-06-(*)-HSR | 15-7/16 | AUF(t)-18-06-(*)-HRR | 18-15/16 |
| 12 | 9 | AUF(t)-12-09-(*)-HLR | 13-3/4 | AUF(t)-12-09-(*)-HSR | 12-7/8 | AUF(t)-12-09-(*)-HRR | 13-3/4 |
| | 6 | AUF(t)-12-06-(*)-HLR | 15-7/16 | AUF(t)-12-06-(*)-HSR | 13-3/4 | AUF(t)-12-06-(*)-HRR | 15-7/16 |
| 9 | 6 | AUF(t)-09-06-(*)-HLR | 13-3/4 | AUF(t)-09-06-(*)-HSR | 12-7/8 | AUF(t)-09-06-(*)-HRR | 13-3/4 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

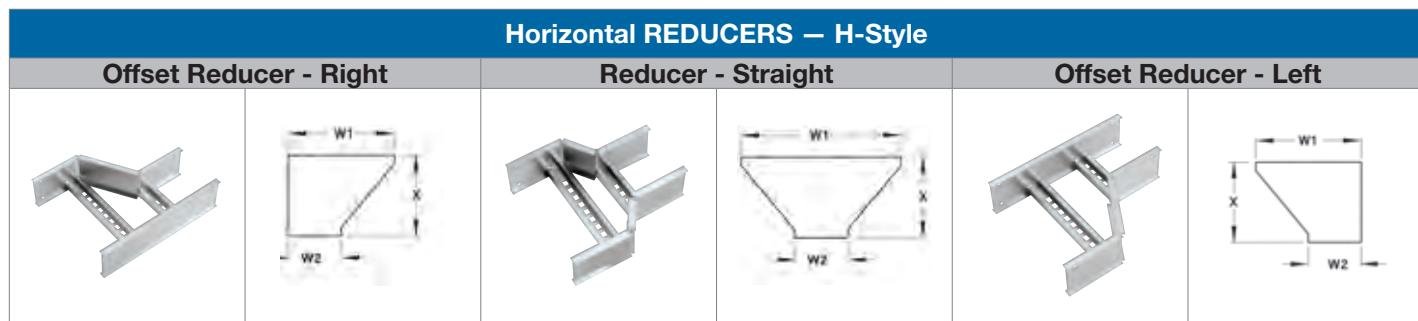
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Reducers

| Part Numbering System | | | |
|--------------------------------|---------|--------------|--------------|
| AHF-6-36-18-L-HLR | | | |
| Fitting material and side rail | Width 1 | Bottom style | Fitting type |
| Side rail height | Width 2 | | |

| Selection Guide | | | |
|---|--|--|--|
| Tray Widths W1: 42, 36, 30, 24, 18, 12, 9 | | | |
| Tray Widths W2: 36, 30, 24, 18, 12, 9, 6 | | | |
| Bottom Styles: L– Ladder, V– Ventilated, S– Solid | | | |
| Side Rail Heights: 4 in. – 7 in. | | | |



| Widths | | Left Reducer | | Straight Reducer (Concentric) | | Right Reducer | |
|--------|----|----------------------|----------|-------------------------------|----------|----------------------|----------|
| W1 | W2 | Cat. No. | Dim. X | Cat. No. | Dim. X | Cat. No. | Dim. X |
| 42 | 36 | AHF(t)-42-36-(*)-HLR | 15-7/16 | AHF(t)-42-36-(*)-HSR | 13-3/4 | AHF(t)-42-36-(*)-HRR | 15-7/16 |
| | 30 | AHF(t)-42-30-(*)-HLR | 18-15/16 | AHF(t)-42-30-(*)-HSR | 15-7/16 | AHF(t)-42-30-(*)-HRR | 18-15/16 |
| | 24 | AHF(t)-42-24-(*)-HLR | 22-3/8 | AHF(t)-42-24-(*)-HSR | 17-3/16 | AHF(t)-42-24-(*)-HRR | 22-3/8 |
| | 18 | AHF(t)-42-18-(*)-HLR | 25-7/8 | AHF(t)-42-18-(*)-HSR | 18-5/16 | AHF(t)-42-18-(*)-HRR | 25-7/8 |
| | 12 | AHF(t)-42-12-(*)-HLR | 29-5/16 | AHF(t)-42-12-(*)-HSR | 20-5/8 | AHF(t)-42-12-(*)-HRR | 29-5/16 |
| | 9 | AHF(t)-42-09-(*)-HLR | 31-1/16 | AHF(t)-42-09-(*)-HSR | 21-1/2 | AHF(t)-42-09-(*)-HRR | 31-1/16 |
| 36 | 6 | AHF(t)-42-06-(*)-HLR | 32-3/4 | AHF(t)-42-06-(*)-HSR | 22-3/8 | AHF(t)-42-06-(*)-HRR | 32-3/4 |
| | 30 | AHF(t)-36-30-(*)-HLR | 15-7/16 | AHF(t)-36-30-(*)-HSR | 13-3/4 | AHF(t)-36-30-(*)-HRR | 15-7/16 |
| | 24 | AHF(t)-36-24-(*)-HLR | 18-15/16 | AHF(t)-36-24-(*)-HSR | 15-7/16 | AHF(t)-36-24-(*)-HRR | 18-15/16 |
| | 18 | AHF(t)-36-18-(*)-HLR | 22-3/8 | AHF(t)-36-18-(*)-HSR | 17-3/8 | AHF(t)-36-18-(*)-HRR | 22-3/8 |
| | 12 | AHF(t)-36-12-(*)-HLR | 25-7/8 | AHF(t)-36-12-(*)-HSR | 18-5/16 | AHF(t)-36-12-(*)-HRR | 25-7/8 |
| | 9 | AHF(t)-36-09-(*)-HLR | 27-9/16 | AHF(t)-36-09-(*)-HSR | 19-13/16 | AHF(t)-36-09-(*)-HRR | 27-9/16 |
| 30 | 6 | AHF(t)-36-06-(*)-HLR | 29-5/16 | AHF(t)-36-06-(*)-HSR | 20-11/16 | AHF(t)-36-06-(*)-HRR | 29-5/16 |
| | 24 | AHF(t)-30-24-(*)-HLR | 15-7/16 | AHF(t)-30-24-(*)-HSR | 13-3/4 | AHF(t)-30-24-(*)-HRR | 15-7/16 |
| | 18 | AHF(t)-30-18-(*)-HLR | 18-15/16 | AHF(t)-30-18-(*)-HSR | 15-7/16 | AHF(t)-30-18-(*)-HRR | 18-15/16 |
| | 12 | AHF(t)-30-12-(*)-HLR | 22-3/8 | AHF(t)-30-12-(*)-HSR | 17-3/16 | AHF(t)-30-12-(*)-HRR | 22-3/8 |
| | 9 | AHF(t)-30-09-(*)-HLR | 24-1/8 | AHF(t)-30-09-(*)-HSR | 18-1/16 | AHF(t)-30-09-(*)-HRR | 24-1/8 |
| | 6 | AHF(t)-30-06-(*)-HLR | 25-7/8 | AHF(t)-30-06-(*)-HSR | 18-15/16 | AHF(t)-30-06-(*)-HRR | 25-7/8 |
| 24 | 18 | AHF(t)-24-18-(*)-HLR | 15-7/16 | AHF(t)-24-18-(*)-HSR | 13-3/4 | AHF(t)-24-18-(*)-HRR | 15-7/16 |
| | 12 | AHF(t)-24-12-(*)-HLR | 18-15/16 | AHF(t)-24-12-(*)-HSR | 15-7/16 | AHF(t)-24-12-(*)-HRR | 18-15/16 |
| | 9 | AHF(t)-24-09-(*)-HLR | 20-11/16 | AHF(t)-24-09-(*)-HSR | 16-5/16 | AHF(t)-24-09-(*)-HRR | 20-11/16 |
| | 6 | AHF(t)-24-06-(*)-HLR | 22-3/8 | AHF(t)-24-06-(*)-HSR | 17-3/16 | AHF(t)-24-06-(*)-HRR | 22-3/8 |
| 18 | 12 | AHF(t)-18-12-(*)-HLR | 15-7/16 | AHF(t)-18-12-(*)-HSR | 13-3/4 | AHF(t)-18-12-(*)-HRR | 15-7/16 |
| | 9 | AHF(t)-18-09-(*)-HLR | 17-3/16 | AHF(t)-18-09-(*)-HSR | 14-5/8 | AHF(t)-18-09-(*)-HRR | 17-3/16 |
| | 6 | AHF(t)-18-06-(*)-HLR | 18-15/16 | AHF(t)-18-06-(*)-HSR | 15-7/16 | AHF(t)-18-06-(*)-HRR | 18-15/16 |
| 12 | 9 | AHF(t)-12-09-(*)-HLR | 13-3/4 | AHF(t)-12-09-(*)-HSR | 12-7/8 | AHF(t)-12-09-(*)-HRR | 13-3/4 |
| | 6 | AHF(t)-12-06-(*)-HLR | 15-7/16 | AHF(t)-12-06-(*)-HSR | 13-3/4 | AHF(t)-12-06-(*)-HRR | 15-7/16 |
| 9 | 6 | AHF(t)-09-06-(*)-HLR | 13-3/4 | AHF(t)-09-06-(*)-HSR | 12-7/8 | AHF(t)-09-06-(*)-HRR | 13-3/4 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

45° U-Style Fittings Horizontal Wyes

Part Numbering System

AUF-6-36-L-HYL

Fitting material and side rail
Side rail height
Width
Bottom style
Fitting type

Selection Guide

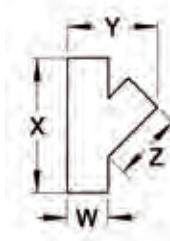
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Side Rail Heights: 4 in.– 7 in.

45° Horizontal WYE – U-Style

Left Hand Wye



Right Hand Wye



| Width | Left Hand Wye Cat. No. | Right Hand Wye Cat. No. | Dimensions | | |
|-----------|---------------------------|----------------------------|------------|----------|---------|
| | | | X | Y | Z |
| 6 | AUF(t)-06-(*)-HYL | AUF(t)-06-(*)-HYR | 18-5/16 | 14-13/16 | 12-7/16 |
| 9 | AUF(t)-09-(*)-HYL | AUF(t)-09-(*)-HYR | 22-1/2 | 19-15/16 | 15-7/16 |
| 12 | AUF(t)-12-(*)-HYL | AUF(t)-12-(*)-HYR | 26-3/4 | 25 | 18-7/16 |
| 18 | AUF(t)-18-(*)-HYL | AUF(t)-18-(*)-HYR | 35-1/4 | 35-1/4 | 24-7/16 |
| 24 | AUF(t)-24-(*)-HYL | AUF(t)-24-(*)-HYR | 43-1/2 | 45-1/2 | 30-7/16 |
| 30 | AUF(t)-30-(*)-HYL | AUF(t)-30-(*)-HYR | 52-1/4 | 55-3/4 | 36-7/16 |
| 36 | AUF(t)-36-(*)-HYL | AUF(t)-36-(*)-HYR | 60-11/16 | 66 | 42-7/16 |
| 42 | AUF(t)-42-(*)-HYL | AUF(t)-42-(*)-HYR | 69-3/16 | 76-1/4 | 45-7/16 |

(t) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

45° H-Style Fittings Horizontal Wyes

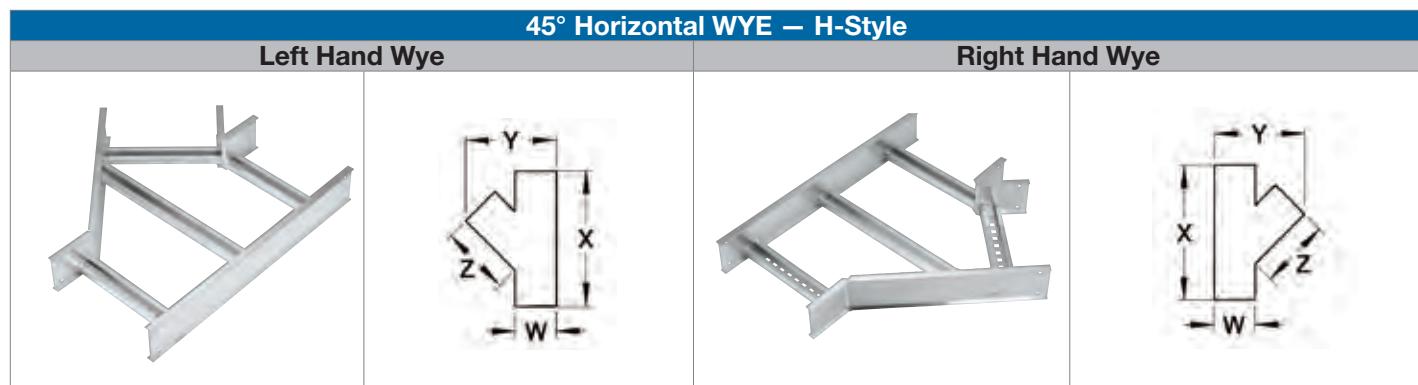
Part Numbering System

AHF-6-36-L-HYL

Fitting material and side rail
Side rail height Width
Bottom style Fitting type

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Bottom Styles: L—Ladder, V—Ventilated, S—Solid
Side Rail Heights: 4 in.– 7 in.



| Width | Left Hand Wye Cat. No. | Right Hand Wye Cat. No. | Dimensions | | |
|-----------|---------------------------|----------------------------|------------|----------|---------|
| | | | X | Y | Z |
| 6 | AHF(†)-06-(*)-HYL | AHF(†)-06-(*)-HYR | 18-5/16 | 14-13/16 | 12-7/16 |
| 9 | AHF(†)-09-(*)-HYL | AHF(†)-09-(*)-HYR | 22-1/2 | 19-15/16 | 15-7/16 |
| 12 | AHF(†)-12-(*)-HYL | AHF(†)-12-(*)-HYR | 26-3/4 | 25 | 18-7/16 |
| 18 | AHF(†)-18-(*)-HYL | AHF(†)-18-(*)-HYR | 35-1/4 | 35-1/4 | 24-7/16 |
| 24 | AHF(†)-24-(*)-HYL | AHF(†)-24-(*)-HYR | 43-1/2 | 45-1/2 | 30-7/16 |
| 30 | AHF(†)-30-(*)-HYL | AHF(†)-30-(*)-HYR | 52-1/4 | 55-3/4 | 36-7/16 |
| 36 | AHF(†)-36-(*)-HYL | AHF(†)-36-(*)-HYR | 60-11/16 | 66 | 42-7/16 |
| 42 | AHF(†)-42-(*)-HYL | AHF(†)-42-(*)-HYR | 69-3/16 | 76-1/4 | 45-7/16 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

90° U-Style Fittings Vertical Bends

Part Numbering System

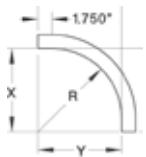
AUF-7-30-L-VI90-36

Selection Guide

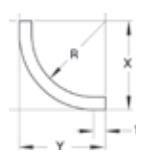
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 90°
 Radius: 12, 24, 36, 48
 Bottom Styles: L – Ladder, V – Ventilated, S – Solid
 Side Rail Heights: 4 in. – 7 in.

90° Vertical BEND – U-Style

Outside Bend



Inside Bend



| Nominal | | Cat. No. | (+ VO Side Rail | | (+ VI Side Rail | | | | | | | |
|---------|-------|-----------------------|-----------------|----|-----------------|----------|----------|----------|-------|----|-------|----|
| | | | X | Y | X | Y | X | Y | X | Y | X | Y |
| Radial | Width | | 4 in. – 7 in. | | 4 in. | | 5 in. | | 6 in. | | 7 in. | |
| 12 | 6 | AUF(+)06-(*)-(+)90-12 | 12 | 12 | 17-15/16 | 17-15/16 | 18-13/16 | 18-13/16 | 20 | 20 | 21 | 21 |
| | 9 | AUF(+)09-(*)-(+)90-12 | | | | | | | | | | |
| | 12 | AUF(+)12-(*)-(+)90-12 | | | | | | | | | | |
| | 18 | AUF(+)18-(*)-(+)90-12 | | | | | | | | | | |
| | 24 | AUF(+)24-(*)-(+)90-12 | | | | | | | | | | |
| | 30 | AUF(+)30-(*)-(+)90-12 | | | | | | | | | | |
| | 36 | AUF(+)36-(*)-(+)90-12 | | | | | | | | | | |
| | 42 | AUF(+)42-(*)-(+)90-12 | | | | | | | | | | |
| 24 | 6 | AUF(+)06-(*)-(+)90-24 | 24 | 24 | 29-15/16 | 29-15/16 | 30-13/16 | 30-13/16 | 32 | 32 | 33 | 33 |
| | 9 | AUF(+)09-(*)-(+)90-24 | | | | | | | | | | |
| | 12 | AUF(+)12-(*)-(+)90-24 | | | | | | | | | | |
| | 18 | AUF(+)18-(*)-(+)90-24 | | | | | | | | | | |
| | 24 | AUF(+)24-(*)-(+)90-24 | | | | | | | | | | |
| | 30 | AUF(+)30-(*)-(+)90-24 | | | | | | | | | | |
| | 36 | AUF(+)36-(*)-(+)90-24 | | | | | | | | | | |
| | 42 | AUF(+)42-(*)-(+)90-24 | | | | | | | | | | |
| 36 | 6 | AUF(+)06-(*)-(+)90-36 | 36 | 36 | 41-15/16 | 41-15/16 | 42-13/16 | 42-13/16 | 44 | 44 | 33 | 33 |
| | 9 | AUF(+)09-(*)-(+)90-36 | | | | | | | | | | |
| | 12 | AUF(+)12-(*)-(+)90-36 | | | | | | | | | | |
| | 18 | AUF(+)18-(*)-(+)90-36 | | | | | | | | | | |
| | 24 | AUF(+)24-(*)-(+)90-36 | | | | | | | | | | |
| | 30 | AUF(+)30-(*)-(+)90-36 | | | | | | | | | | |
| | 36 | AUF(+)36-(*)-(+)90-36 | | | | | | | | | | |
| | 42 | AUF(+)42-(*)-(+)90-36 | | | | | | | | | | |
| 48 | 6 | AUF(+)06-(*)-(+)90-48 | 48 | 48 | 53-15/16 | 53-15/16 | 54-13/16 | 54-13/16 | 56 | 56 | 57 | 57 |
| | 9 | AUF(+)09-(*)-(+)90-48 | | | | | | | | | | |
| | 12 | AUF(+)12-(*)-(+)90-48 | | | | | | | | | | |
| | 18 | AUF(+)18-(*)-(+)90-48 | | | | | | | | | | |
| | 24 | AUF(+)24-(*)-(+)90-48 | | | | | | | | | | |
| | 30 | AUF(+)30-(*)-(+)90-48 | | | | | | | | | | |
| | 36 | AUF(+)36-(*)-(+)90-48 | | | | | | | | | | |
| | 42 | AUF(+)42-(*)-(+)90-48 | | | | | | | | | | |

(+) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

90° H-Style Fittings Vertical Bends

Part Numbering System

AHF-7-30-L-VI90-36

Fitting material and side rail
Side rail height Width
Bottom style Fitting Type
Degree Nominal radius

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 90°

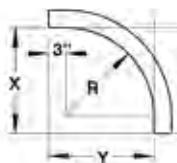
Radius: 12, 24, 36, 48

Bottom Styles: L– Ladder, V– Ventilated, S– Solid

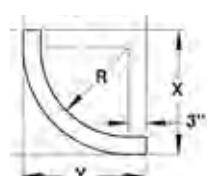
Side Rail Heights: 4 in. – 7 in.

90° Vertical BEND – H-Style

Outside Bend



Inside Bend



| Nominal | | Cat. No. | (+ VO Side Rail | | (+ VI Side Rail | | | | | | |
|---------|-------|------------------------|-----------------|-------|-----------------|---------|---------|---------|--------|--------|--------|
| | | | 4 in. – 7 in. | 4 in. | 5 in. | 6 in. | 7 in. | | | | |
| Radius | Width | X | Y | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AHF(t)-06-(*)-(+)90-12 | 15 | 15 | 19-3/16 | 19-3/16 | 20-1/16 | 20-1/16 | 21-1/4 | 21-1/4 | 22-1/4 |
| | 9 | AHF(t)-09-(*)-(+)90-12 | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)90-12 | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)90-12 | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)90-12 | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)90-12 | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)90-12 | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)90-12 | | | | | | | | | |
| 24 | 6 | AHF(t)-06-(*)-(+)90-24 | 27 | 27 | 31-3/16 | 31-3/16 | 32-1/16 | 32-1/16 | 33-1/4 | 33-1/4 | 34-1/4 |
| | 9 | AHF(t)-09-(*)-(+)90-24 | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)90-24 | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)90-24 | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)90-24 | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)90-24 | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)90-24 | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)90-24 | | | | | | | | | |
| 36 | 6 | AHF(t)-06-(*)-(+)90-36 | 39 | 39 | 43-3/16 | 43-3/16 | 44-1/16 | 44-1/16 | 45-1/4 | 45-1/4 | 46-1/4 |
| | 9 | AHF(t)-09-(*)-(+)90-36 | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)90-36 | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)90-36 | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)90-36 | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)90-36 | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)90-36 | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)90-36 | | | | | | | | | |
| 48 | 6 | AHF(t)-06-(*)-(+)90-48 | 51 | 51 | 55-3/16 | 55-3/16 | 56-1/16 | 56-1/16 | 57-1/4 | 57-1/4 | 58-1/4 |
| | 9 | AHF(t)-09-(*)-(+)90-48 | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)90-48 | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)90-48 | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)90-48 | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)90-48 | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)90-48 | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)90-48 | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

60° U-Style Fittings Vertical Bends

Part Numbering System

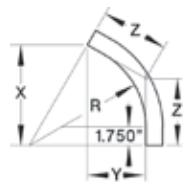
AUF-7-36-V-VO60-24

Selection Guide

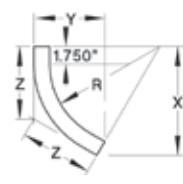
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 60°
 Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Side Rail Heights: 4 in. – 7 in.

60° Vertical BEND – U-Style

Outside Bend



Inside Bend



| Nominal | | | (+) VO Side Rail | | | (+) VI Side Rail | | | | | | | | | | | |
|---------|-------|-------------------------|-------------------|--------|---------|-------------------|----------|----------|----------|--------|---------|---------|----------|---------|----------|--------|----------|
| | | | 4 in. – 7 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | |
| Radius | Width | Cat. No. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | AUF(t)-06-(*)-(+)-60-12 | 13 | 7-1/2 | 8-11/16 | 16-5/8 | 11-11/16 | 11-1/16 | 17-7/16 | 12-5/8 | 11-5/8 | 18-3/8 | 13-11/16 | 12-1/4 | 19-5/16 | 14-3/4 | 12-7/8 |
| | 9 | AUF(t)-09-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 36 | AUF(t)-36-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AUF(t)-06-(*)-(+)-60-24 | 23-7/16 | 13-1/2 | 15-5/8 | 27 | 17-11/16 | 18 | 27-13/16 | 18-5/8 | 16-9/16 | 28-3/4 | 19-11/16 | 19-3/16 | 29-11/16 | 20-3/4 | 19-13/16 |
| | 9 | AUF(t)-09-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AUF(t)-06-(*)-(+)-60-36 | 33-13/16 | 19-1/2 | 22-9/16 | 37-7/16 | 23-11/16 | 24-15/16 | 38-3/16 | 24-5/8 | 25-7/16 | 39-3/16 | 25-11/16 | 26-1/8 | 40-1/16 | 26-3/4 | 26-11/16 |
| | 9 | AUF(t)-09-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AUF(t)-06-(*)-(+)-60-48 | 44-3/16 | 25-1/2 | 29-7/16 | 47-13/16 | 29-11/16 | 31-7/8 | 48-9/16 | 30-5/8 | 32-3/8 | 49-9/16 | 31-11/16 | 33-1/16 | 50-7/16 | 32-3/4 | 33-5/8 |
| | 9 | AUF(t)-09-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)-60-48 | | | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.

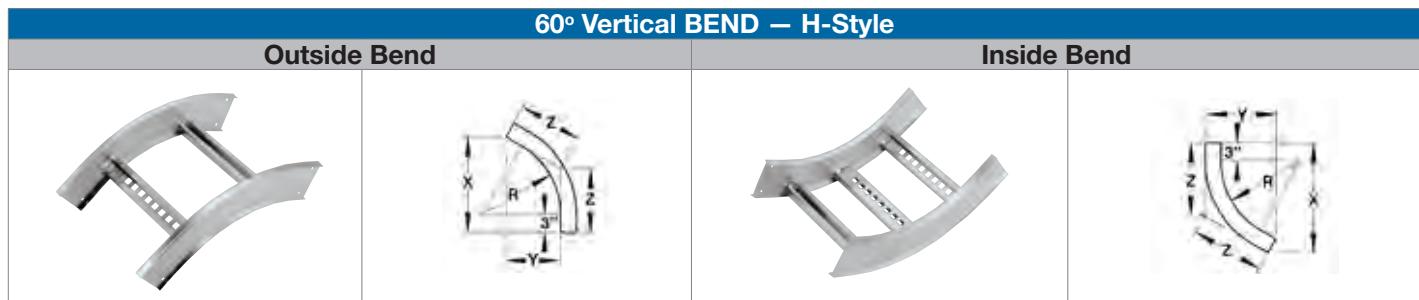
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

60° H-Style Fittings Vertical Bends

| Part Numbering System | | | |
|---------------------------|--------------|--------------|----------------|
| AHF-7-36-V-VO60-24 | | | |
| Fitting material | Width | Fitting Type | Nominal radius |
| Side rail height | Bottom style | Degree | |

| Selection Guide | | | |
|---------------------|---------------------------------|--|--|
| Inside Tray Widths: | 6, 9, 12, 18, 24, 30, 36, 42 | | |
| Angle: | 60° | | |
| Radius: | 12, 24, 36, 48 | | |
| Bottom Styles: | L—Ladder, V—Ventilated, S—Solid | | |
| Side Rail Heights: | 4 in. – 7 in. | | |



| Nominal | | Cat. No. | (+) VO Side Rail | | | (+) VI Side Rail | | | | | | | | | | | |
|---------|-------|-------------------------|-------------------|--------|----------|-------------------|--------|---------|----------|----------|----------|----------|----------|---------|----------|----------|----------|
| | | | 4 in. – 7 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | |
| Radius | Width | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | |
| 12 | 6 | AHF(t)-06-(*)-(+)-60-12 | 14-7/8 | 8-5/8 | 9-15/16 | 18-1/2 | 12-3/4 | 12-5/16 | 19-5/16 | 13-11/16 | 12-7/8 | 20-5/16 | 14-13/16 | 13-1/2 | 21-1/8 | 15-13/16 | 14-1/8 |
| | 9 | AHF(t)-09-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| 24 | 42 | AHF(t)-42-(*)-(+)-60-12 | | | | | | | | | | | | | | | |
| | 6 | AHF(t)-06-(*)-(+)-60-24 | 25-5/16 | 14-5/8 | 16-7/8 | 28-7/8 | 18-3/4 | 19-1/4 | 29-11/16 | 19-11/16 | 19-13/16 | 30-11/16 | 20-13/16 | 20-7/16 | 31-9/16 | 21-13/16 | 21 |
| | 9 | AHF(t)-09-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-60-24 | | | | | | | | | | | | | | | |
| 36 | 36 | AHF(t)-36-(*)-(+)-60-36 | 35-11/16 | 20-5/8 | 23-13/16 | 39-5/16 | 24-3/4 | 26-3/16 | 40-1/16 | 25-11/16 | 26-11/16 | 41-1/16 | 26-13/16 | 27-3/8 | 41-15/16 | 27-13/16 | 27-15/16 |
| | 42 | AHF(t)-42-(*)-(+)-60-36 | | | | | | | | | | | | | | | |
| | 6 | AHF(t)-06-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 9 | AHF(t)-09-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| 48 | 30 | AHF(t)-30-(*)-(+)-60-48 | 46-1/16 | 26-5/8 | 30-11/16 | 49-11/16 | 30-3/4 | 33-1/8 | 50-7/16 | 31-11/16 | 33-5/8 | 51-1/2 | 32-13/16 | 34-5/16 | 52-5/16 | 33-13/16 | 34-7/8 |
| | 36 | AHF(t)-36-(*)-(+)-60-48 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)-60-48 | | | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

45° U-Style Fittings Vertical Bends

| Part Numbering System | | | |
|--|-----------------------|------------------------|----------------|
| AUF-5-24-S-VI45-48 | Width | Fitting Type | Nominal radius |
| Fitting material and side rail Side rail height | Width Bottom style | Fitting Type Degree | Nominal radius |

| Selection Guide | | | |
|--|--|--|--|
| Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 | | | |
| Angle: 45° | | | |
| Nominal Radius: 12, 24, 36, 48 | | | |
| Bottom Styles: L—Ladder, V—Ventilated, S—Solid | | | |
| Side Rail Heights: 4 in. – 7 in. | | | |

45° Vertical BEND — U-Style

Outside Bend



Inside Bend



| Nominal | | Cat. No. | (+ VO Side Rail | | | (+ VI Side Rail | | | | | | | | | |
|---------|-------|------------------------|-----------------|----------|----------|-----------------|----------|---------|---------|---------|----------|----------|----------|---------|---------|
| | | | 4 in. – 7 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | |
| Radius | Width | | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | |
| 12 | 6 | AUF(t)-06-(*)-(+)45-12 | 11-1/2 | 4-3/4 | 6-3/4 | 14-7/16 | 8-15/16 | 8-7/16 | 15-1/16 | 9-13/16 | 8-13/16 | 15-7/8 | 10-15/16 | 9-5/16 | |
| | 9 | AUF(t)-09-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 36 | AUF(t)-36-(*)-(+)45-12 | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)45-12 | | | | | | | | | | | | | |
| 24 | 6 | AUF(t)-06-(*)-(+)45-24 | 19-15/16 | 8-1/4 | 11-11/16 | 22-15/16 | 12-7/16 | 13-7/16 | 23-9/16 | 13-3/8 | 13-13/16 | 24-5/16 | 14-7/16 | 14-1/4 | 25-1/16 |
| | 9 | AUF(t)-09-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 36 | AUF(t)-36-(*)-(+)45-24 | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)45-24 | | | | | | | | | | | | | |
| 36 | 6 | AUF(t)-06-(*)-(+)45-36 | 28-7/16 | 11-13/16 | 16-11/16 | 31-3/8 | 15-15/16 | 18-3/8 | 32-1/16 | 16-7/8 | 18-3/4 | 32-13/16 | 18 | 19-1/4 | 33-9/16 |
| | 9 | AUF(t)-09-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 36 | AUF(t)-36-(*)-(+)45-36 | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)45-36 | | | | | | | | | | | | | |
| 48 | 6 | AUF(t)-06-(*)-(+)45-48 | 36-15/16 | 15-5/16 | 21-5/8 | 39-7/8 | 19-1/2 | 23-3/8 | 40-1/2 | 20-3/8 | 23-3/4 | 41-5/16 | 21-1/2 | 24-3/16 | 42-1/16 |
| | 9 | AUF(t)-09-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 12 | AUF(t)-12-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 18 | AUF(t)-18-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 24 | AUF(t)-24-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 30 | AUF(t)-30-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 36 | AUF(t)-36-(*)-(+)45-48 | | | | | | | | | | | | | |
| | 42 | AUF(t)-42-(*)-(+)45-48 | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.

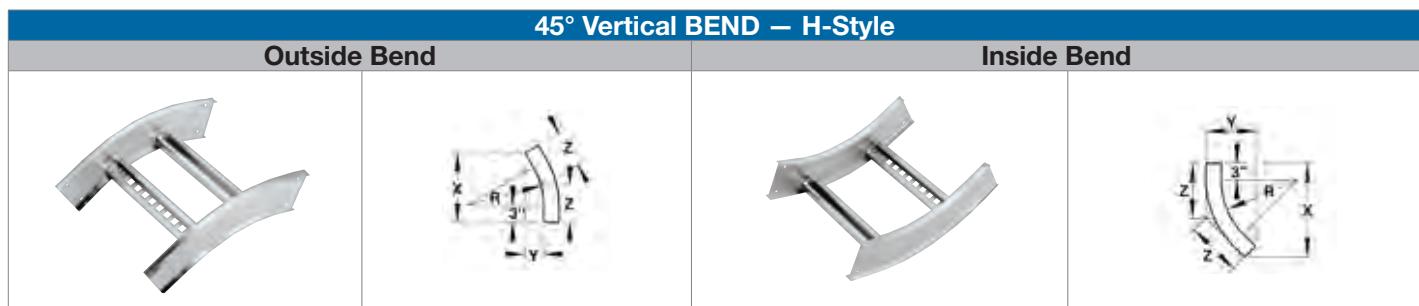
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

45° H-Style Fittings Vertical Bends

| Part Numbering System | | | |
|--------------------------------|--------------|--------------|----------------|
| AHF | -5 | -24 | -S-VI45-48 |
| Fitting material and side rail | Width | Fitting Type | Nominal radius |
| Side rail height | Bottom style | Degree | |

| Selection Guide | | | |
|---------------------|------------------------------------|--|--|
| Inside Tray Widths: | 6, 9, 12, 18, 24, 30, 36, 42 | | |
| Angle: | 45° | | |
| Nominal Radius: | 12, 24, 36, 48 | | |
| Bottom Styles: | L– Ladder, V– Ventilated, S– Solid | | |
| Side Rail Heights: | 4 in. – 7 in. | | |



| Nominal | | Cat. No. | (+ VO Side Rail | | | (+ VI Side Rail | | | | | | | | | | | |
|---------|-------|-----------------------|-----------------|----------|----------|-----------------|----------|----------|----------|----------|---------|--------|---------|---------|----------|--------|----------|
| | | | 4 in. – 7 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | |
| Radius | Width | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | |
| 12 | 6 | AHF(t)-06-(*)-(+45-12 | 13-5/8 | 5-5/8 | 8 | 16-9/16 | 9-13/16 | 9-11/16 | 17-3/16 | 10-11/16 | 10-1/16 | 18 | 11-7/8 | 10-9/16 | 18-11/16 | 12-7/8 | 10-15/16 |
| | 9 | AHF(t)-09-(*)-(+45-12 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+45-12 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+45-12 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+45-12 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+45-12 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+45-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF(t)-06-(*)-(+45-24 | 22-1/16 | 9-1/8 | 12-15/16 | 25-1/16 | 13-5/16 | 14-11/16 | 25-11/16 | 14-1/4 | 15-1/16 | 26-1/2 | 15-3/8 | 15-1/2 | 27-3/16 | 16-3/8 | 15-15/16 |
| | 9 | AHF(t)-09-(*)-(+45-24 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+45-24 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+45-24 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+45-24 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+45-24 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+45-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF(t)-06-(*)-(+45-36 | 30-9/16 | 12-11/16 | 17-15/16 | 33-1/2 | 16-13/16 | 19-5/8 | 34-3/16 | 17-3/4 | 20 | 35 | 18-7/8 | 20-1/2 | 35-11/16 | 19-7/8 | 20-7/8 |
| | 9 | AHF(t)-09-(*)-(+45-36 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+45-36 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+45-36 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+45-36 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+45-36 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+45-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF(t)-06-(*)-(+45-48 | 39-1/16 | 16-3/16 | 22-7/8 | 42 | 20-3/8 | 24-5/8 | 42- 5/8 | 21-1/4 | 25 | 43-1/2 | 22-7/16 | 25-7/16 | 44-3/16 | 23-3/8 | 25-7/8 |
| | 9 | AHF(t)-09-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+45-48 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+45-48 | | | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Part Numbering System

AUF-6-12-L-VO30-24

| Fitting material and side rail | Width | Fitting Type | Nominal radius |
|--------------------------------|--------------|--------------|----------------|
| Side rail height | Bottom style | Degree | |

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

0°

Nominal Radius: 12, 24, 36, 48

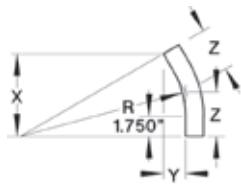
Bottom Sty

Side Rail Heights: 4 in.–7 in.

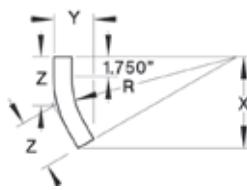
[View Details](#)

30° Vertical BEND – U-Style

Outside Bend



Inside Bend



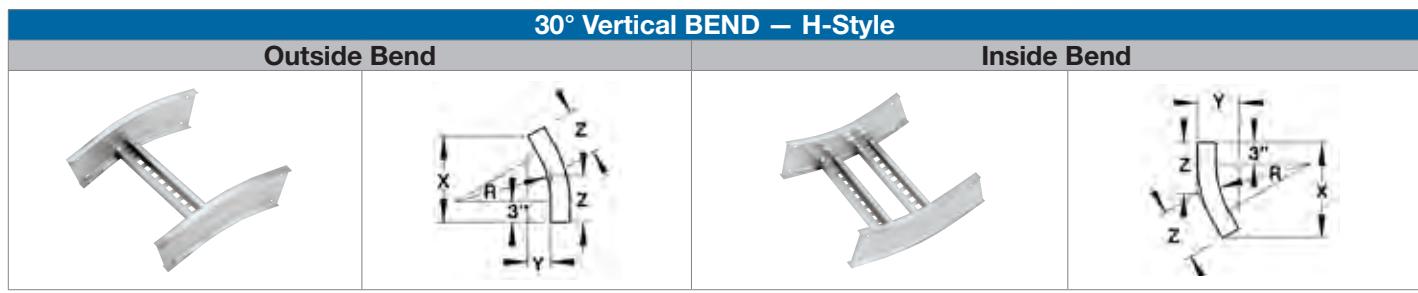
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

30° H-Style Fittings Vertical Bends

| Part Numbering System | | | | |
|--------------------------------|-------|--------------|----------------|--------|
| Fitting material and side rail | Width | Fitting Type | Nominal radius | |
| Side rail height | | Bottom style | | Degree |
| | | | | |
| AHF-6-12-L-VO30-24 | | | | |

| Selection Guide | | | | |
|---------------------|------------------------------------|--|--|--|
| Inside Tray Widths: | 6, 9, 12, 18, 24, 30, 36, 42 | | | |
| Angle: | 30° | | | |
| Nominal Radius: | 12, 24, 36, 48 | | | |
| Bottom Styles: | L– Ladder, V– Ventilated, S– Solid | | | |
| Side Rail Heights: | 4 in.– 7 in. | | | |



| Nominal | | Cat. No. | (+ VO Side Rail | | | (+ VI Side Rail | | | | | | | | | | | |
|-----------|-------|-------------------------|-----------------|---------|--------|-----------------|--------|---------|--------|---------|----------|----------|----------|---------|----------|----------|----------|
| | | | 4 in. - 7 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | |
| Radius | Width | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | |
| 12 | 6 | AHF(t)-06-(*)-(+)-30-12 | 11-5/8 | 3-1/8 | 6-3/16 | 13-11/16 | 7-5/16 | 7-5/16 | 14-1/8 | 8-3/16 | 7-9/16 | 14-11/16 | 9-3/8 | 7-7/8 | 13-11/16 | 10-5/16 | 8-1/8 |
| | 9 | AHF(t)-09-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)-30-12 | | | | | | | | | | | | | | | |
| 24 | 6 | AHF(t)-06-(*)-(+)-30-24 | 17-5/8 | 4-11/16 | 9-7/16 | 19-11/16 | 8-7/8 | 10-9/16 | 20-1/8 | 9-13/16 | 10-13/16 | 20-11/16 | 10-15/16 | 11-1/8 | 19-11/16 | 11-15/16 | 11-3/8 |
| | 9 | AHF(t)-09-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)-30-24 | | | | | | | | | | | | | | | |
| 36 | 6 | AHF(t)-06-(*)-(+)-30-36 | 23-5/8 | 6-5/16 | 12-5/8 | 25-11/16 | 10-1/2 | 13-6/8 | 26-1/8 | 11-3/8 | 14 | 26-11/16 | 12-9/16 | 14-5/16 | 25-11/16 | 13-9/16 | 14-9/16 |
| | 9 | AHF(t)-09-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)-30-36 | | | | | | | | | | | | | | | |
| 48 | 6 | AHF(t)-06-(*)-(+)-30-48 | 29-5/8 | 7-15/16 | 15-7/8 | 31-11/16 | 12-1/8 | 17 | 32-1/8 | 13 | 17-1/4 | 32-11/16 | 14-3/16 | 17-9/16 | 31-11/16 | 15-1/8 | 17-13/16 |
| | 9 | AHF(t)-09-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 12 | AHF(t)-12-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 18 | AHF(t)-18-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 24 | AHF(t)-24-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 30 | AHF(t)-30-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 36 | AHF(t)-36-(*)-(+)-30-48 | | | | | | | | | | | | | | | |
| | 42 | AHF(t)-42-(*)-(+)-30-48 | | | | | | | | | | | | | | | |

(+) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Tees Up/Down

Part Numbering System

AUF-6-24-L-VTD-12

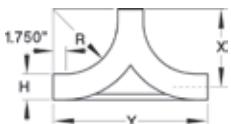
Fitting material and side rail Width Bottom style Fitting Type Nominal radius
Side rail height

Selection Guide

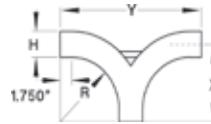
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Side Rail Heights: 4 in.– 7 in.

Vertical Tee Up/Down – U-Style

Up



Down



| Nominal | | Cat. No. | Cat. No. | Side Rail Height "H" | | | | | | | |
|---------|-------|---------------------|---------------------|----------------------|-----------|---------|----------|--------|---------|--------|---------|
| Radius | Width | | | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AUF(†)-06-(*)-VTU12 | AUF(†)-06-(*)-VTD12 | 15-13/16 | 31-11/16 | 16-5/16 | 32-9/16 | 16-7/8 | 33-3/4 | 17-3/8 | 34-3/4 |
| | 9 | AUF(†)-09-(*)-VTU12 | AUF(†)-09-(*)-VTD12 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU12 | AUF(†)-12-(*)-VTD12 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU12 | AUF(†)-18-(*)-VTD12 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU12 | AUF(†)-24-(*)-VTD12 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU12 | AUF(†)-30-(*)-VTD12 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU12 | AUF(†)-36-(*)-VTD12 | | | | | | | | |
| | 42 | AUF(†)-42-(*)-VTU12 | AUF(†)-42-(*)-VTD12 | | | | | | | | |
| 24 | 6 | AUF(†)-06-(*)-VTU24 | AUF(†)-06-(*)-VTD24 | 27-13/16 | 55-11/16 | 28-5/16 | 56-9/16 | 28-7/8 | 57-3/4 | 29-3/8 | 58-3/4 |
| | 9 | AUF(†)-09-(*)-VTU24 | AUF(†)-09-(*)-VTD24 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU24 | AUF(†)-12-(*)-VTD24 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU24 | AUF(†)-18-(*)-VTD24 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU24 | AUF(†)-24-(*)-VTD24 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU24 | AUF(†)-30-(*)-VTD24 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU24 | AUF(†)-36-(*)-VTD24 | | | | | | | | |
| | 42 | AUF(†)-42-(*)-VTU24 | AUF(†)-42-(*)-VTD24 | | | | | | | | |
| 36 | 6 | AUF(†)-06-(*)-VTU36 | AUF(†)-06-(*)-VTD36 | 39-13/16 | 79-11/16 | 40-5/16 | 80-9/16 | 40-7/8 | 81-3/4 | 41-3/8 | 82-3/4 |
| | 9 | AUF(†)-09-(*)-VTU36 | AUF(†)-09-(*)-VTD36 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU36 | AUF(†)-12-(*)-VTD36 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU36 | AUF(†)-18-(*)-VTD36 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU36 | AUF(†)-24-(*)-VTD36 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU36 | AUF(†)-30-(*)-VTD36 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU36 | AUF(†)-36-(*)-VTD36 | | | | | | | | |
| | 42 | AUF(†)-42-(*)-VTU36 | AUF(†)-42-(*)-VTD36 | | | | | | | | |
| 48 | 6 | AUF(†)-06-(*)-VTU48 | AUF(†)-06-(*)-VTD48 | 51-13/16 | 103-11/16 | 52-5/16 | 104-9/16 | 52-7/8 | 105-3/4 | 53-3/8 | 106-3/4 |
| | 9 | AUF(†)-09-(*)-VTU48 | AUF(†)-09-(*)-VTD48 | | | | | | | | |
| | 12 | AUF(†)-12-(*)-VTU48 | AUF(†)-12-(*)-VTD48 | | | | | | | | |
| | 18 | AUF(†)-18-(*)-VTU48 | AUF(†)-18-(*)-VTD48 | | | | | | | | |
| | 24 | AUF(†)-24-(*)-VTU48 | AUF(†)-24-(*)-VTD48 | | | | | | | | |
| | 30 | AUF(†)-30-(*)-VTU48 | AUF(†)-30-(*)-VTD48 | | | | | | | | |
| | 36 | AUF(†)-36-(*)-VTU48 | AUF(†)-36-(*)-VTD48 | | | | | | | | |
| | 42 | AUF(†)-42-(*)-VTU48 | AUF(†)-42-(*)-VTD48 | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Tees Up/Down

| Part Numbering System | | | |
|---------------------------------------|--------------|--------------|----------------|
| AHF-6-24-L-VTD-12 | | | |
| Fitting material and side rail height | Width | Fitting Type | Nominal radius |
| Side rail height | Bottom style | | |

| Selection Guide | | | |
|--|--|--|--|
| Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 | | | |
| Nominal Radius: 12, 24, 36, 48 | | | |
| Bottom Styles: L – Ladder, V – Ventilated, S – Solid | | | |
| Side Rail Heights: 4 in.– 7 in. | | | |



| Nominal | | Cat. No. | Cat. No. | Side Rail Height "H" | | | | | | | |
|-----------|-------|---------------------|---------------------|----------------------|----------|---------|----------|--------|---------|--------|---------|
| Radius | Width | | | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AHF(†)-06-(*)-VTU12 | AHF(†)-06-(*)-VTD12 | 17-1/16 | 34-3/16 | 17-9/16 | 35-1/16 | 18-1/8 | 36-1/4 | 18-5/8 | 37-1/4 |
| | 9 | AHF(†)-09-(*)-VTU12 | AHF(†)-09-(*)-VTD12 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU12 | AHF(†)-12-(*)-VTD12 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU12 | AHF(†)-18-(*)-VTD12 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU12 | AHF(†)-24-(*)-VTD12 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU12 | AHF(†)-30-(*)-VTD12 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU12 | AHF(†)-36-(*)-VTD12 | | | | | | | | |
| | 42 | AHF(†)-42-(*)-VTU12 | AHF(†)-42-(*)-VTD12 | | | | | | | | |
| 24 | 6 | AHF(†)-06-(*)-VTU24 | AHF(†)-06-(*)-VTD24 | 29-1/16 | 58-3/16 | 29-9/16 | 59-1/16 | 30-1/8 | 60-1/4 | 30-5/8 | 61-1/4 |
| | 9 | AHF(†)-09-(*)-VTU24 | AHF(†)-09-(*)-VTD24 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU24 | AHF(†)-12-(*)-VTD24 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU24 | AHF(†)-18-(*)-VTD24 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU24 | AHF(†)-24-(*)-VTD24 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU24 | AHF(†)-30-(*)-VTD24 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU24 | AHF(†)-36-(*)-VTD24 | | | | | | | | |
| | 42 | AHF(†)-42-(*)-VTU24 | AHF(†)-42-(*)-VTD24 | | | | | | | | |
| 36 | 6 | AHF(†)-06-(*)-VTU36 | AHF(†)-06-(*)-VTD36 | 41-1/16 | 82-3/16 | 41-9/16 | 83-1/16 | 42-1/8 | 84-1/4 | 42-5/8 | 85-1/4 |
| | 9 | AHF(†)-09-(*)-VTU36 | AHF(†)-09-(*)-VTD36 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU36 | AHF(†)-12-(*)-VTD36 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU36 | AHF(†)-18-(*)-VTD36 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU36 | AHF(†)-24-(*)-VTD36 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU36 | AHF(†)-30-(*)-VTD36 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU36 | AHF(†)-36-(*)-VTD36 | | | | | | | | |
| | 42 | AHF(†)-42-(*)-VTU36 | AHF(†)-42-(*)-VTD36 | | | | | | | | |
| 48 | 6 | AHF(†)-06-(*)-VTU48 | AHF(†)-06-(*)-VTD48 | 53-1/16 | 106-3/16 | 53-9/16 | 107-1/16 | 54-1/8 | 108-1/4 | 54-5/8 | 109-1/4 |
| | 9 | AHF(†)-09-(*)-VTU48 | AHF(†)-09-(*)-VTD48 | | | | | | | | |
| | 12 | AHF(†)-12-(*)-VTU48 | AHF(†)-12-(*)-VTD48 | | | | | | | | |
| | 18 | AHF(†)-18-(*)-VTU48 | AHF(†)-18-(*)-VTD48 | | | | | | | | |
| | 24 | AHF(†)-24-(*)-VTU48 | AHF(†)-24-(*)-VTD48 | | | | | | | | |
| | 30 | AHF(†)-30-(*)-VTU48 | AHF(†)-30-(*)-VTD48 | | | | | | | | |
| | 36 | AHF(†)-36-(*)-VTU48 | AHF(†)-36-(*)-VTD48 | | | | | | | | |
| | 42 | AHF(†)-42-(*)-VTU48 | AHF(†)-42-(*)-VTD48 | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Cable Support

Part Numbering System

AUF-5-24-V-CS-12

| | | | |
|--------------------------------|--------------|--------------|----------------|
| Fitting material and side rail | Width | Fitting Type | Nominal radius |
| Side rail height | Bottom style | | |

Selection Guide

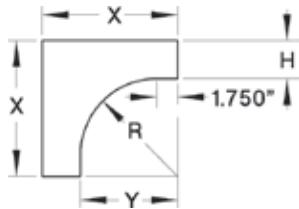
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L–Ladder, V–Ventilated, S–Solid

Side Rail Heights: 4 in.–7 in.

Cable Support Fitting - U-Style



| Nominal | | Cat. No. | Side Rail Height "H" | | | | | | | |
|---------|-------|--------------------|----------------------|--------|----------|--------|----|--------|----|--------|
| Radius | Width | | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | AUF(t)-06-(*)-CS12 | 17-15/16 | 13-3/4 | 18-13/16 | 13-3/4 | 20 | 13-3/4 | 21 | 13-3/4 |
| | 9 | AUF(t)-09-(*)-CS12 | | | | | | | | |
| | 12 | AUF(t)-12-(*)-CS12 | | | | | | | | |
| | 18 | AUF(t)-18-(*)-CS12 | | | | | | | | |
| | 24 | AUF(t)-24-(*)-CS12 | | | | | | | | |
| | 30 | AUF(t)-30-(*)-CS12 | | | | | | | | |
| | 36 | AUF(t)-36-(*)-CS12 | | | | | | | | |
| | 42 | AUF(t)-42-(*)-CS12 | | | | | | | | |
| 24 | 6 | AUF(t)-06-(*)-CS24 | 29-15/16 | 25-3/4 | 30-13/16 | 25-3/4 | 32 | 25-3/4 | 33 | 25-3/4 |
| | 9 | AUF(t)-09-(*)-CS24 | | | | | | | | |
| | 12 | AUF(t)-12-(*)-CS24 | | | | | | | | |
| | 18 | AUF(t)-18-(*)-CS24 | | | | | | | | |
| | 24 | AUF(t)-24-(*)-CS24 | | | | | | | | |
| | 30 | AUF(t)-30-(*)-CS24 | | | | | | | | |
| | 36 | AUF(t)-36-(*)-CS24 | | | | | | | | |
| | 42 | AUF(t)-42-(*)-CS24 | | | | | | | | |
| 36 | 6 | AUF(t)-06-(*)-CS36 | 41-15/16 | 37-3/4 | 42-13/16 | 37-3/4 | 44 | 37-3/4 | 45 | 37-3/4 |
| | 9 | AUF(t)-09-(*)-CS36 | | | | | | | | |
| | 12 | AUF(t)-12-(*)-CS36 | | | | | | | | |
| | 18 | AUF(t)-18-(*)-CS36 | | | | | | | | |
| | 24 | AUF(t)-24-(*)-CS36 | | | | | | | | |
| | 30 | AUF(t)-30-(*)-CS36 | | | | | | | | |
| | 36 | AUF(t)-36-(*)-CS36 | | | | | | | | |
| | 42 | AUF(t)-42-(*)-CS36 | | | | | | | | |
| 48 | 6 | AUF(t)-06-(*)-CS48 | 53-15/16 | 49-3/4 | 54-13/16 | 49-3/4 | 56 | 49-3/4 | 57 | 49-3/4 |
| | 9 | AUF(t)-09-(*)-CS48 | | | | | | | | |
| | 12 | AUF(t)-12-(*)-CS48 | | | | | | | | |
| | 18 | AUF(t)-18-(*)-CS48 | | | | | | | | |
| | 24 | AUF(t)-24-(*)-CS48 | | | | | | | | |
| | 30 | AUF(t)-30-(*)-CS48 | | | | | | | | |
| | 36 | AUF(t)-36-(*)-CS48 | | | | | | | | |
| | 42 | AUF(t)-42-(*)-CS48 | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

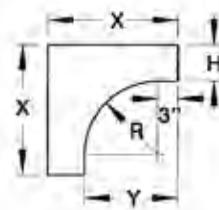
Fittings

H-Style Fittings Cable Support

| Part Numbering System | | | |
|--------------------------------|--------------|--------------|----------------|
| AHF-5-24-V-CS-12 | | | |
| Fitting material and side rail | Width | Fitting Type | Nominal radius |
| Side rail height | Bottom style | | |

| Selection Guide | | | |
|--|--|--|--|
| Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 | | | |
| Nominal Radius: 12, 24, 36, 48 | | | |
| Bottom Styles: L–Ladder, V–Ventilated, S–Solid | | | |
| Side Rail Heights: 4 in.– 7 in. | | | |

Cable Support Fitting - H-Style



| Nominal | | Cat. No. | Side Rail Height "H" | | | | | | | |
|---------|-------|--------------------|----------------------|---|-------|---|-------|---|-------|--|
| | | | 4 in. | | 5 in. | | 6 in. | | 7 in. | |
| Radius | Width | X | Y | X | Y | X | Y | X | Y | |
| 12 | 6 | AHF(t)-06-(*)-CS12 | | | | | | | | |
| | 9 | AHF(t)-09-(*)-CS12 | | | | | | | | |
| | 12 | AHF(t)-12-(*)-CS12 | | | | | | | | |
| | 18 | AHF(t)-18-(*)-CS12 | | | | | | | | |
| | 24 | AHF(t)-24-(*)-CS12 | | | | | | | | |
| | 30 | AHF(t)-30-(*)-CS12 | | | | | | | | |
| | 36 | AHF(t)-36-(*)-CS12 | | | | | | | | |
| | 42 | AHF(t)-42-(*)-CS12 | | | | | | | | |
| 24 | 6 | AHF(t)-06-(*)-CS24 | | | | | | | | |
| | 9 | AHF(t)-09-(*)-CS24 | | | | | | | | |
| | 12 | AHF(t)-12-(*)-CS24 | | | | | | | | |
| | 18 | AHF(t)-18-(*)-CS24 | | | | | | | | |
| | 24 | AHF(t)-24-(*)-CS24 | | | | | | | | |
| | 30 | AHF(t)-30-(*)-CS24 | | | | | | | | |
| | 36 | AHF(t)-36-(*)-CS24 | | | | | | | | |
| | 42 | AHF(t)-42-(*)-CS24 | | | | | | | | |
| 36 | 6 | AHF(t)-06-(*)-CS36 | | | | | | | | |
| | 9 | AHF(t)-09-(*)-CS36 | | | | | | | | |
| | 12 | AHF(t)-12-(*)-CS36 | | | | | | | | |
| | 18 | AHF(t)-18-(*)-CS36 | | | | | | | | |
| | 24 | AHF(t)-24-(*)-CS36 | | | | | | | | |
| | 30 | AHF(t)-30-(*)-CS36 | | | | | | | | |
| | 36 | AHF(t)-36-(*)-CS36 | | | | | | | | |
| | 42 | AHF(t)-42-(*)-CS36 | | | | | | | | |
| 48 | 6 | AHF(t)-06-(*)-CS48 | | | | | | | | |
| | 9 | AHF(t)-09-(*)-CS48 | | | | | | | | |
| | 12 | AHF(t)-12-(*)-CS48 | | | | | | | | |
| | 18 | AHF(t)-18-(*)-CS48 | | | | | | | | |
| | 24 | AHF(t)-24-(*)-CS48 | | | | | | | | |
| | 30 | AHF(t)-30-(*)-CS48 | | | | | | | | |
| | 36 | AHF(t)-36-(*)-CS48 | | | | | | | | |
| | 42 | AHF(t)-42-(*)-CS48 | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings**Helix® Cable Tray Fitting**

The Helix® cable tray fitting. Efficiency is in its DNA.

Go from horizontal to vertical, maximum cable protection, minimum space.

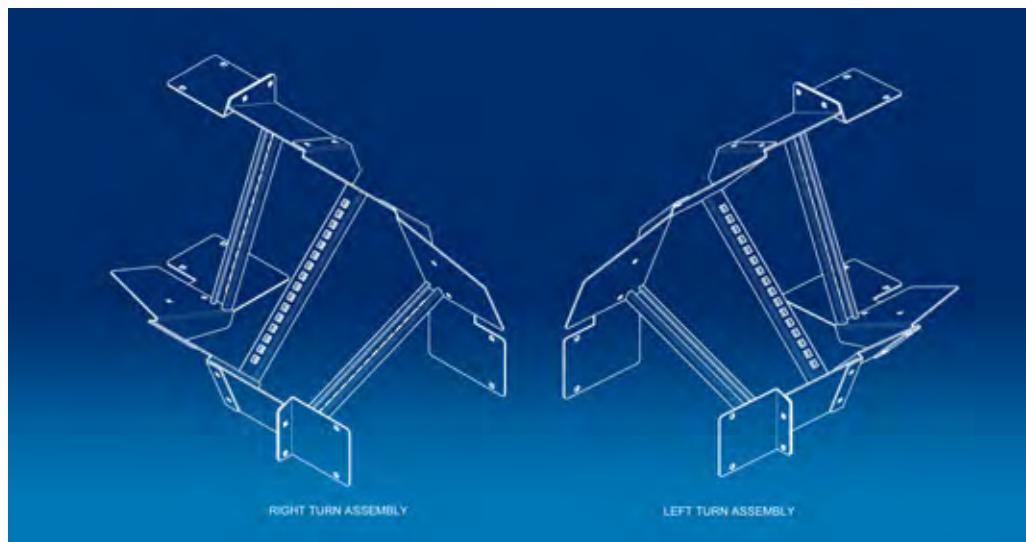
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix® fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs



Fittings

Helix® Cable Tray Fitting



| Cat. No. | Material | Side Rail (in.) | Width (in.) | Direction |
|------------|----------|-----------------|-------------|------------|
| AUF612LHVR | | | 12 | Right turn |
| AUF612LHVL | | | | Left turn |
| AUF624LHVR | Aluminum | 6 | 24 | Right turn |
| AUF624LHVL | | | | Left turn |

Supports should be positioned within 24" (610 mm) of each Helix® fitting extremity.

Accessories

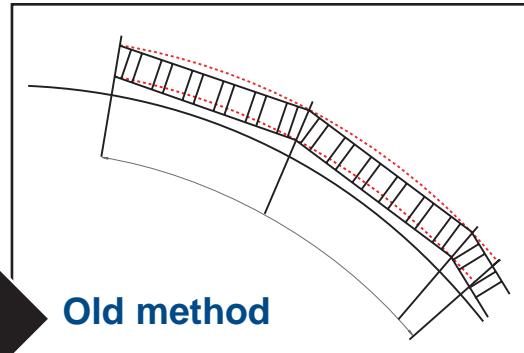
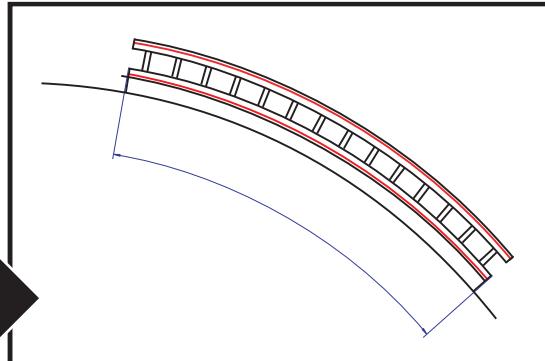
Large Radius Aluminum

This cable tray design offers a custom-built cable support system for each petrochemical project tank or tower. This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Thomas & Betts takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories to fit your tank or vessel.

Thomas & Betts large radius aluminum cable tray systems mount flawlessly with no extra cutting, set-up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.

Technical Specifications



Accessories

Large Radius Aluminum / Cable Tray

The diagram illustrates a large radius aluminum cable tray system. It shows a perspective view of the tray installed on a structure, with a red circle indicating the bend radius. Blue arrows point to several key dimensions:

- CLEARANCE DISTANCE: The vertical distance from the bottom of the tray to the structure.
- RUNG SPACING: The horizontal distance between the centers of the rungs.
- STANDARD LENGTH (EXTERNAL SIDE RAIL): The total length of the tray, labeled as 3 M (118 in.).
- TRAY WIDTH: The width of the tray at its widest point.
- VESSEL OR CATWALK RADIUS: The radius of the vessel or catwalk on which the tray is installed.
- SEGMENT ARC LENGTH MESURED ON TANK: The arc length of the tray segment, measured on the tank.
- TRAY RADIUS: The overall radius of the tray bend.

Features and Benefits:

- no mitered joints
- no bent splice plates
- less costly
- easier to install
- faster to install
- fewer skills required to install
- cleaner lines
- improved functionality and aesthetics

Data Required for Quotation

| Data Required for Quotation | |
|--|----------------|
| Height of the cable tray : | in. |
| Width of the cable tray : | in. |
| Rung spacing : | in. |
| Load rating and support span : | lb./ft. (kg/m) |
| Radius of tank or vessel : | in. |
| Clearance distance : | in. |
| Quantity required : (number of segments) or total arc length : (mesured on structure) | in. |

Covers

Number Selection

Tray Covers

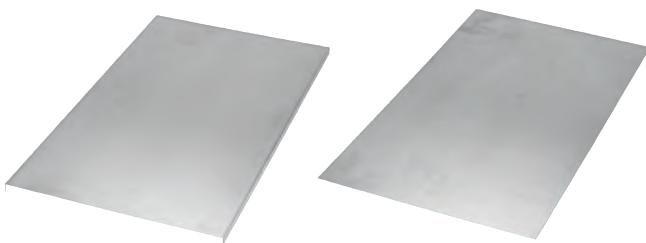
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cover mounting hardware must be ordered separately.

Solid Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have 1/2 in. flange.

Cover mounting hardware must be ordered separately.



Ventilated Flanged Covers

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



For extreme applications :

Peaked flanged covers, peaked ventilated covers

Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and the accumulation of snow or ice.

Peaked covers have 15° angle.

Cover mounting hardware must be ordered separately.



Covers

Straight Cover Number Selection

| (ABW-3-12)-SNC-72 | | | | |
|-------------------|--------------|--|---|----------------------------|
| Material Prefix | Cover Series | Width | Cover Type | Length |
| ABW • Aluminum | 3 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover PFC • Peaked flanged cover PVC • Peaked ventilated flanged cover | 72 • (72 in.) 3 • (3 m) |

Fittings Cover Number Selection

| A UW-12-SNC-HB90-24 | | | | | | | |
|---------------------|----------------------------|--|--|---|--|--|--|
| Material Prefix | Fitting Style Prefix | Width | Cover Type | Fitting Type | Degree | Nominal Radius | |
| A • Aluminum | UW • U-Beam HW • H-Beam | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover | HB • Horizontal bend VI • Vertical inside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) | |

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Fittings Cover Number Selection

AUW-18-12-SNC-RT-12

| Material Prefix | Fitting Style Prefix | Width 1 | Width 2** | Cover Type | Fitting Type | Radius* |
|-----------------|----------------------------|--|--|--|--|--|
| A • Aluminum | UW • U-Beam HW • H-Beam | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover | RT • Horizontal reduce tee ET • Horizontal expand tee EX • Horizontal expand cross HSR • Horizontal straight reducer HLR • Horizontal left reducer HRR • Horizontal right reducer HT • Horizontal tee HX • Horizontal cross VTU • Vertical tee up HYR • Horizontal wye right HYL • Horizontal wye left | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

NOTE: For ET and EX, W2 > W1. For RT, HSR, HLR, HRR, W1 > W2.

** Not required for VTU, HYR, HYL, HT, HX

* Radius not required for HSR, HLR, HRR, HYR, HYL.

Fittings Cover Number Selection

AUW-4-12-SNC-VO90-24

| Material Prefix | Fitting Style Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Nominal Radius |
|-----------------|----------------------------|--|--|--|---|--|--|
| A • Aluminum | UW • U-Beam HW • H-Beam | 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover | VO • Vertical outside bend VTD • Vertical tee down CS • Cable support | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: For peaked fitting covers refer to pages A95 to A97

* Not required for VTD nor for CS

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers

Horizontal Bend / Vertical Inside Bend



Aluminum Number Selection

| A U W - 1 2 - P F C - H B - 9 0 - 2 4 | | | | | | | |
|--|----------------------------|--|---|---|--|--|--|
| Material | Fitting Style | Width | Cover Type | Fitting Type | Degree | Nominal Radius | |
| A • Aluminum | UW • U-Beam HW • H-Beam | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked ventilated flanged cover | HB • Horizontal bend VI • Vertical inside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) | |

Note: Pregalvanized not available

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers

Vertical Outside Bend



Aluminum Number Selection

AUW-4-12-PFC-VO-90-24

| Material Prefix | Fitting Style Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|-----------------|----------------------------|--|--|---|----------------------------|--|--|
| A • Aluminum | UW • U-Beam HW • H-Beam | 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked ventilated flanged cover | VI • Vertical outside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: Pregalvanized not available

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers

Horizontal Tee



Aluminum Number Selection

AUW-12-PFC-HT-24

| Material Prefix | Fitting Style Prefix | Width | Cover Type | Fitting Type | Nominal Radius |
|-----------------|----------------------------|--|---|---------------------|--|
| A • Aluminum | UW • U-Beam HW • H-Beam | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked ventilated flanged cover | HT • Horizontal tee | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: Pregalvanized not available

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Quantity of Standard Cover Clamps Required

| | | | |
|---|--------|---------|--------|
| Straight section 1.8 m (6 ft.) | 4 pcs. | Tees | 6 pcs. |
| Straight section 3 m (10 ft.) and 3.7 m (12 ft.) | 6 pcs. | Crosses | 8 pcs. |
| Horizontal and vertical bends | 4 pcs. | | |

IMPORTANT NOTE: "B" in CAT. NO. indicates this accessory can be used for both styles.
Note: when using heavy-duty cover clamp, only half the quantity of pieces are required.

Economical Cover Clamp



| Cat. No. | Material | Side Rail Height |
|----------------|----------|------------------|
| ABW-SCC | Aluminum | All Sizes |

Cannot be used with U-Style fittings.

Rigid indoor cover clamp for flat and flanged covers.

Universal Fitting Cover Clamp



| Cat. No. | Material | Side Rail Height |
|-----------------------------|----------|------------------|
| ABW(*)FCC | Aluminum | 4 |
| (*) Insert side rail height | | 5 |
| | | 6 |
| | | 7 |

Rigid indoor cover clamp for flat and flanged covers.

Heavy-Duty Cover Clamp



| Cat. No. | Material | Side Rail Height | Tray Width (in.) |
|-----------------------|----------|------------------|------------------|
| ABW4(*)HCC | Aluminum | 4 | 06 |
| ABW5(*)HCC | | 5 | 09 |
| ABW6(*)HCC | | 6 | 12 |
| ABW7(*)HCC | | 7 | 18 |
| (*) Insert tray width | | | 24 |
| | | | 30 |
| | | | 36 |
| | | | 42 |

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Extreme Heavy-Duty Cover Clamp



Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

| Cat. No. | Material | Side Rail Height | Tray Width (in.) |
|-----------------------|----------|------------------|------------------|
| ABW4(*)ECC | Aluminum | 4 | 06 |
| ABW5(*)ECC | | 5 | 09 |
| ABW6(*)ECC | | 6 | 12 |
| ABW7(*)ECC | | 7 | 18 |
| (*) Insert tray width | | | 24 |
| | | | 30 |
| | | | 36 |
| | | | 42 |

(*) Insert tray width

Heavy-Duty Peaked Cover Clamp



Wraparound design formed to fit peaked cover for outdoor applications.
Hardware included

| Cat. No. | Material | Side Rail Height | Tray Width (in.) |
|-----------------------|----------|------------------|------------------|
| ABW4(*)HPC | Aluminum | 4 | 06 |
| ABW5(*)HPC | | 5 | 09 |
| ABW6(*)HPC | | 6 | 12 |
| ABW7(*)HPC | | 7 | 18 |
| (*) Insert tray width | | | 24 |
| | | | 30 |
| | | | 36 |
| | | | 42 |

(*) Insert tray width

Hold Down Clamp



Designed to secure cable tray to support system.

| Cat. No. | Material | Side Rail Height |
|---|----------|------------------|
| ABW(*)HDC | Aluminum | 4 |
| Note: Hardware included (*) Insert side rail height | | 5 |
| | | 6 |
| | | 7 |

Note: Hardware included (*) Insert side rail height

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Raised Cover Clamp



| Cat. No. | Material | Cover Series | Cover Offset (in.)* |
|------------|----------|--------------|---------------------|
| ABW3(*)RCC | Aluminum | 3 | 1 |
| | | | 2 |
| | | | 3 |
| | | | 4 |

(*) Cover offset.
Designed to raise cover above tray for added ventilation.
Note: For straight section and PFC and SFC covers only.

Peaked End Cap



| Cat. No. | Material | Tray Width (in.) |
|-----------|----------|------------------|
| ABW(*)PEC | Aluminum | 06 |
| | | 09 |
| | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |
| | | 42 |

Cover Joint Strip



| Cat. No. | Material | Tray Width (in.) |
|-----------|----------|------------------|
| ABW(*)PCS | Plastic | 06 |
| | | 09 |
| | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |
| | | 42 |

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Splice Plates

Snap-In Splice Plate



Designed to lock into place for easy alignment and installation.

Packaged in pairs with zinc plated hardware. Kit Contents 8 bolts, 8 nuts, 8 washers 3/8 in. diameter.

Provided as standard with each straight and fitting.

| Cat. No. | Material | Side Rail Height |
|---------------------------|----------|------------------|
| ABW-4-SSP | Aluminum | 4 |
| ABW-5-SSP | | 5 |
| ABW-6-SSP | | 6 |
| ABW-7-SSP | | 7 |

Snap-In Expansion Splice Plate



Allows for a 1 in. expansion or contraction of tray system.

Packaged in pairs with zinc plated hardware. Kit Contents 8 bolts, 4 nuts, 4 stop nuts 3/8 in. diameter.

| Cat. No. | Material | Side Rail Height |
|---------------------------|----------|------------------|
| ABW-4-ESP | Aluminum | 4 |
| ABW-5-ESP | | 5 |
| ABW-6-ESP | | 6 |
| ABW-7-ESP | | 7 |

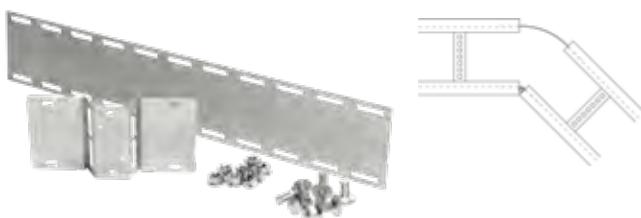
Transition Splice Plate



| Cat. No. | Material | Description | Side Rail Height |
|-----------------------------------|----------------------|---|------------------|
| XNM-XP400-(*)-SS6 | Polyester/Fiberglass | Designed to make the transition from aluminum to steel cable tray Works for all 6 in. side rails. | 6 |

Each pair of plates:
8 x carriage bolt (3/8 x 1 in.) SS316
8 x 3/8 in. serrated flange nut SS316

Horizontal Adjustable Plate

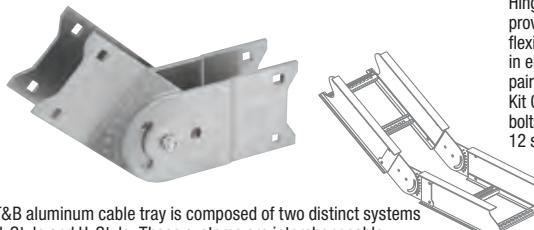


Furnished in pairs with hardware.

| Cat. No. | Material | Side Rail Height (in.) | Tray Width (in.) |
|------------------------------|----------|------------------------|------------------|
| ABW-(*)06HBP | Aluminum | 4 | 06 |
| ABW-(*)09HBP | | | 09 |
| ABW-(*)12HBP | | | 12 |
| ABW-(*)18HBP | | | 18 |
| ABW-(*)24HBP | | | 24 |
| ABW-(*)30HBP | | | 30 |
| ABW-(*)36HBP | | | 36 |
| ABW-(*)42HBP | | | 42 |

(*) Insert side rail height.

Vertical Adjustable Plate



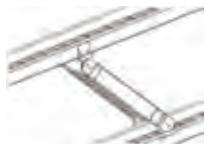
Hinged vertical plates provide maximum flexibility for changes in elevation. Furnished in pairs with hardware. Kit Contents 10 carriage bolts, 2 cap screws, 12 serrated flange nuts 3/8 in. diameter.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

| Cat. No. | Material | Side Rail Height in. |
|---------------------------|----------|----------------------|
| ABW-4-VSP | Aluminum | 4 |
| ABW-5-VSP | | 5 |
| ABW-6-VSP | | 6 |
| ABW-7-VSP | | 7 |

Splice Plates

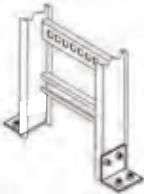
Branch Pivot Connectors



Allows cables to run from one tray level to another.

| Cat. No. | Material | Side Rail Height (in.) |
|-----------|----------|------------------------|
| ABW-4-BPC | Aluminum | 4 |
| ABW-5-BPC | | 5 |
| ABW-6-BPC | | 6 |
| ABW-7-BPC | | 7 |

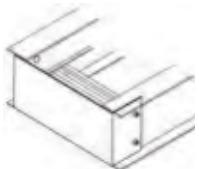
Box to Tray Plates



Designed to secure tray to electrical panels or boxes, walls or end supports.
Furnished in pairs with hardware. Kit Contents 8 bolts, 8 nuts, 8 lock washers 3/8 in. diameter.

| Cat. No. | Material | Side Rail Height (in.) |
|-----------|----------|------------------------|
| ABW-4-BSP | Aluminum | 4 |
| ABW-5-BSP | | 5 |
| ABW-6-BSP | | 6 |
| ABW-7-BSP | | 7 |

Closure End Plate



Provides closure for any tray end. Packaged with hardware. Kit Contents 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

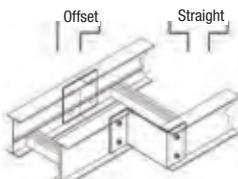
| Cat. No. | Material | Side Rail Height (in.) | Tray Width (in.) |
|--------------|----------|------------------------|------------------|
| ABW-4(*)-CEP | Aluminum | 4 | 06 |
| | | | 09 |
| ABW-5(*)-CEP | | 5 | 12 |
| | | | 18 |
| ABW-6(*)-CEP | | 6 | 24 |
| | | | 30 |
| ABW-7(*)-CEP | | 7 | 36 |
| | | | 42 |

(*) Insert tray width

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Splice Plates

Reducing Splice Plate

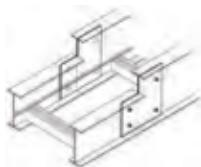


Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction. Packaged with hardware. Kit Contents 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

| Cat. No. | Material | Side Rail Height (in.) |
|--------------|----------|------------------------|
| ABW-4(*)-RSP | Aluminum | 4 |
| ABW-5(*)-RSP | | 5 |
| ABW-6(*)-RSP | | 6 |
| ABW-7(*)-RSP | | 7 |

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert 1/2 width to be reduced (2 required). Example: ABW-403-RSP = 3 in. offset reducer.

Step Down Splice Plate



Connects side rails of different heights. Kit Contents 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

| Cat. No. | Material | Side Rail Height (in.) |
|--|----------|------------------------|
| ABW(*)(**)SDS | Aluminum | 4 |
| (*) Side rail height 1. (**) Side rail height 2. | | 5 |
| NOTE: Side rail height 1 is greater than side rail height 2. | | 6 |
| | | 7 |

Super-Duty Splice Plate™



| Cat. No. | KIT INCLUDES |
|----------|--|
| ABW6SDP | <ul style="list-style-type: none">• 2 Super-Duty Splice Plates™• 12 ribbed-neck carriage bolts• 8 nylon insert locknuts• 8 serrated flanged locknuts• 12 nylon washers (spacers) |

Comes complete with all hardware required, for either expansion or mid-span splicing.

Splice Plates

.....
Over Support Splice Adaptor



ABW46-OSS-B

Over Support Splice Adaptor –
Beam Installation

Expansion over support beam 29 in.

SHW-CTC, Heavy-duty hold down clamp (complete with mounting hardware)

SHW-HEC, Standard hold down clamp

E142-3/8x100EG, 3/8 in. - 16 x 1 in. hex cap screws

AC100-3/8EGC, 3/8 in. strut nut

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16 in., 600 amps)

ABW46-OSS-S

Over Support Splice Adaptor –
Strut Installation

Expansion over support beam 29 in.

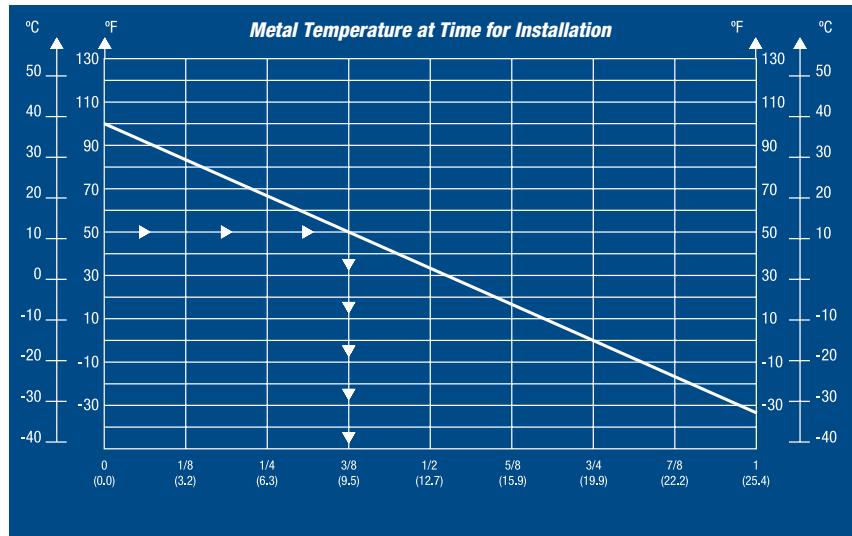
SHW-HEC, Standard hold down clamp

E142-3/8x100EG, 3/8 in. - 16 x 1 in. hex cap screws

AC100-3/8EGC, 3/8 in. strut nut

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16 in., 600 A)

Expansion Plate Gap Chart



Cable Protection

Drop Out



Designed to provide a smooth radius surface at any position on the tray or trough bottom.

Drop outs are easily attached using hardware provided.

Standard radius 4".

| Cat. No. | Description | Tray Width (in.) |
|-----------------------|--------------------------------|------------------|
| ABW(*)DO | For ladder and ventilated tray | 06 |
| | Aluminum | 09 |
| (*) Insert tray width | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |
| | | 42 |

Wall Penetration Sleeve

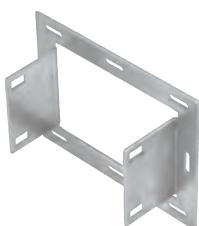


Designed to pass through walls and fire walls. Hardware included. **IMPORTANT:** Not fire rated. Fire stop not included.

Sold with cover

| Cat. No. | Material | Side Rail Height | Tray Width (in.) |
|---|----------|------------------|------------------|
| ABW(*)(**)WPS | Aluminum | 4 | 06 |
| | | | 09 |
| | | 5 | 12 |
| | | | 18 |
| | | 6 | 24 |
| | | | 30 |
| | | 7 | 36 |
| (*) Insert side rail height. (**) Insert tray width | | | 42 |

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels. Hardware included.

| Cat. No. | Material | Side Rail Height (in.) | Tray Width (in.) |
|---|----------|------------------------|------------------|
| ABW(*)(**)FBP | Aluminum | 4 | 06 |
| | | | 09 |
| | | 5 | 12 |
| | | | 18 |
| | | 6 | 24 |
| | | | 30 |
| | | 7 | 36 |
| (*) Insert side rail height. (**) Insert tray width | | | 42 |

Nylon Expansion Pad



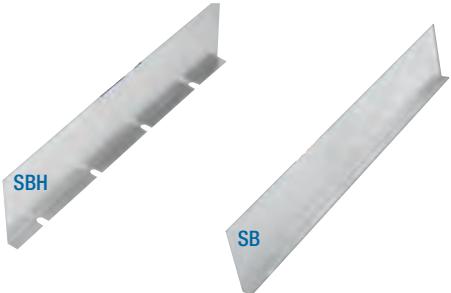
Allows for thermal expansion and contraction of cable trays over supports.

| Cat. No. | Material |
|----------|---------------|
| ABW-NSP | Natural nylon |

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Barrier Strips

Barrier Strips



Aluminum barrier strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware. 72 in. barriers are flexible for use with horizontal fittings.

Inside / Outside Vertical Bend Barriers



| Cat. No. | Designed for Side Rail Height (in.) | Length |
|--------------|-------------------------------------|----------------|
| ABW-4-SBH-72 | 4 | 72 in. |
| ABW-5-SBH-72 | 5 | |
| ABW-6-SBH-72 | 6 | |
| ABW-7-SBH-72 | 7 | |
| ABW-4-SB-(*) | 4 | 144 in. 3 m |
| ABW-5-SB-(*) | 5 | |
| ABW-6-SB-(*) | 6 | |
| ABW-7-SB-(*) | 7 | |

NOTE: 72 in. barriers provided with 3 SPW10SCR. 144 in., 3 m barriers provided with 6 SPW10SCR.
(*) Insert length.

Barrier Strip Splice



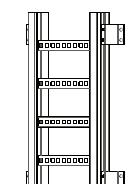
Alignment splice for joining connecting barrier strips.

| Cat. No. | Material |
|----------|----------|
| ABWBSS | Plastic |

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Clamps and Hardware

Hold Down Clamp



For vertical applications

| Cat. No. | Type | Material | Design Load |
|----------|--------|----------|---------------|
| ABW-HDCS | Single | Aluminum | 600 lb./Pair |
| ABW-HDCD | Double | | 1000 lb./Pair |

Cable Tray Combo Clamps



| Cat. No. | Material | Hardware size (in.) |
|--------------|----------|---------------------|
| ABWCHGC | Aluminum | |
| ABWCHGC-HDW* | | 3/8 |

* Hardware supplied: 1 bolt and 1 springless strut nut 3/8 diameter.

Conduit Clamp



| Cat. No. | Conduit Size (in.) | Material |
|-------------|--------------------|----------|
| ABW-100-CDO | 1 | Aluminum |
| ABW-125-CDO | 1-1/4 | |
| ABW-150-CDO | 1-1/2 | |
| ABW-200-CDO | 2 | |
| ABW-250-CDO | 2-1/2 | |
| ABW-300-CDO | 3 | |
| ABW-400-CDO | 4 | |

Aluminum Tray Hardware



Square shoulder self-positioning carriage bolt.

| Cat. No. | Material | Description |
|----------------|-------------------|---|
| SPW-1/4-CB | Zinc plated steel | 1/4 in. carriage bolt |
| SPW-3/8-CB | | 3/8 in. carriage bolt |
| SPW-1/4-HN | | 1/4 in. hex. nut |
| SPW-3/8-HN | | 3/8 in. hex. nut |
| SPW3/8HWK* | | Zinc plated steel hardware kit |
| SPW-3/8HXHWK** | | Hardware kit 3/8 in. for large radius crosses |
| SSW-3/8-CB | 316 Stainless | 3/8 in. carriage bolt |
| SSW-3/8-HN | | 3/8 in. hex. nut |
| SSW38HWK* | | 316 Stainless steel hardware kit |
| SSW-3/8HXHWK** | | Hardware kit 3/8 in. for large radius crosses |

*Contains 8 bolts and 8 nuts.

**Contains 6 bolts, 6 nuts and 6 washers.

Self-drilling – tapping screw

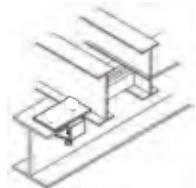


| Cat. No. | Material | Description |
|------------|-------------------|-------------------------------|
| SPW-10-SCR | Zinc plated steel | |
| SSW-10-SCR | Stainless steel | Self-drilling – tapping screw |

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Clamps and Hardware

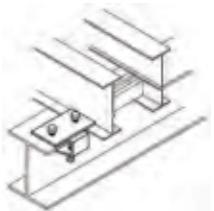
Cable Tray Guide



| Cat. No. | Material |
|----------|-----------------------------|
| SPW-CTG | Zinc plated steel |
| SHW-CTG | Hot-dipped galvanized steel |

Expansion guide for single or double runs of cable tray.
No need to field drill the channel or I-beam.

Cable Tray Clamp



| Cat. No. | Material |
|----------|-----------------------------|
| SPW-CTC | Zinc plated steel |
| SHW-CTC | Hot-dipped galvanized steel |

Clamps for single run of cable tray. No need to field drill the channel or I-beam.

Vertical Tray Hanger



| Cat. No. | Material | Side Rail Height (in.) |
|---------------------------|----------|------------------------|
| ABW(*)VTH | Aluminum | 4 |
| * Insert side rail height | | 5 |
| | | 6 |
| | | 7 |

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

T&B® Cable Tray

Metallic – Steel

Straight Lengths

Tray Bottom

Ladder, ventilated and solid trough

Ladder

Formed side rails are welded to 1-5/8 in. wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1 in. centers.



Ventilated

A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables.

The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung to rung).

Solid Trough

Solid sheet welded to steel side rails below rungs. This design offers added cable protection.

Straight Lengths

Number Selection

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8 in the technical section.

Methods

1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA/CSA Load/Span designations page A16, and sizing cable tray page A32.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A32.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

Straight Section Number Selection

| SH3624L09144 | | | | | |
|--|--|------------------------|--|---|--|
| Material Prefix | Series | Side Rail Height (in.) | Width | Bottom Type | Length |
| SP • Pregalvanized SH • Hot-dipped galvanized after fabrication SS • Stainless steel 316 | 1 • Series 1 | 3 - 5 / 8 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) **V (ventilated) S (solid trough) | 3 (3 meters) 6 (6 meters) 144 (12 ft.) 288 (24 ft.) |
| | 1 • Series 1 3 • Series 3 | 4 | | | |
| | 2 • Series 2 4 • Series 4 5 • Series 5 | 5 | | | |
| | 1 • Series 1 3 • Series 3 4 • Series 4 | 6 | | | |
| | 3 • Series 3 | 7 | | | |

* Series 1-3 and 1-4 are not available in 6 meter and 288 in. lengths.

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Straight Lengths

3-5/8 in. Straight Sections

Series 1-3

Ladder, ventilated and solid trough

Straight Section Number Selection

| SH 1 3 2 4 L 0 9 - 3 | | | | | |
|--|--------------|------------------|--|---|----------------------------------|
| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length |
| SP • Pregalvanized SH • Hot-dipped galvanized after fabrication SS • Stainless steel 316 | 1 • Series 1 | 3 • (3-5/8 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated * S • Solid trough | 3 • (3 meters) 144 • (12 ft.) |

* For load CSA Class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced 12 inches center to center with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

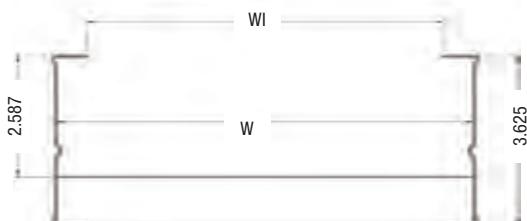
| Series | Load (lb./ft.) | Support Span (Feet) | | | |
|--------------|----------------|---------------------|-------|-------|----|
| | | 6 | 8 | 10 | 12 |
| SP1-3 | 200 | 112.5 | 72 | 50 | |
| SH1-3 | 0.242 | 0.430 | 0.672 | 0.967 | |
| SS1-3 | 0.001 | 0.004 | 0.009 | 0.019 | |

Straight Lengths

3-5/8 in. Straight Sections

Series 1-3

Ladder, ventilated and solid trough



Dimensions

| SP1-3, SH1-3, SS1-3 | |
|---------------------|----------|
| W (in.) | Wi (in.) |
| 6 | 4.5 |
| 9 | 7.5 |
| 12 | 10.5 |
| 18 | 16.5 |
| 24 | 22.5 |
| 30 | 28.5 |
| 36 | 34.5 |
| 42 | 40.5 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | | |
|--|------------|---|-----------------|-------|---|----------------------|
| | | | NEMA | CSA | UL | ABS |
| SP1-3 SH1-3 SS1-3 | | $I_x = 0.804 \text{ in.}^4$ $S_x = 0.444 \text{ in.}^3$ $\text{Area} = 0.488 \text{ in.}^2$ | 12A | C/3 m | UL cross sectional Area : 0.40 in. ² | Stainless steel only |

Straight Lengths

4 in. Straight Sections

Series 1-4, 3-4

Ladder, ventilated and solid trough

Straight Section Number Selection

| SH3424L09144 | | | | | |
|--|------------------------------|------------------|--|--|--|
| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length * |
| SP • Pregalvanized SH • Hot-dipped galvanized after fabrication SS • Stainless steel 316 | 1 • Series 1 3 • Series 3 | 4 • (4 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid trough | 3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.) |

* Series 1-4 not available in 6 meters or 288 in. lengths.

** For load CSA Class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------------|-------------------|---------------------|--------|--------|---------|--------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| SP1-4 | Load (lb./ft.) | 420 | 236 | 151 | 105 | – | – | – | – |
| SH1-4 | Deflection (in.) | 0.207 | 0.368 | 0.574 | 0.827 | – | – | – | – |
| SS1-4 | Deflection Factor | 0.001 | 0.002 | 0.004 | 0.008 | – | – | – | – |
| SP3-4 | Load (lb./ft.) | 556 | 313 | 200 | 139 | 102 | 78 | 62 | 50 |
| SH3-4 | Deflection (in.) | 0.243 | 0.432 | 0.674 | 0.971 | 1.322 | 1.727 | 2.185 | 2.698 |
| SS3-4 | Deflection Factor | 0.0004 | 0.0014 | 0.0033 | 0.00700 | 0.0130 | 0.022 | 0.035 | 0.054 |

Straight Lengths

4 in. Straight Sections

Series 1-4, 3-4

Ladder, ventilated and solid trough



Dimensions

| SP1-4, SH1-4, SS1-4 SP3-4, SH3-4, SS3-4 | |
|--|----------|
| W (in.) | Wi (in.) |
| 6 | 3.34 |
| 9 | 6.34 |
| 12 | 9.34 |
| 18 | 15.34 |
| 24 | 21.34 |
| 30 | 27.34 |
| 36 | 33.34 |
| 42 | 39.34 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | | |
|--------------|------------|---|-----------------|------|---|----------------------|
| | | | NEMA | CSA | UL | ABS |
| SP1-4 | | I _x = 1.974 in. ⁴ S _x = 0.788 in. ³ Area = 0.682 in. ² | 12C | D/3M | UL cross sectional Area : 0.70 in. ² | Stainless steel only |
| SH1-4 | | | | | | |
| SS1-4 | | | | | | |
| SP3-4 | | I _x = 2.224 in. ⁴ S _x = 1.022 in. ³ Area = 1.080 in. ² | 20A | D/6M | UL cross sectional Area : 0.70 in. ² | Stainless steel only |
| SH3-4 | | | | | | |
| SS3-4 | | | | | | |

Straight Lengths

**5 in. Straight Sections
Series 2-5, 4-5, 5-5**

Ladder, ventilated and solid trough

Straight Section Number Selection

SH2524L09144

| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length |
|--|--------------|------------------|---------------|---------------------------|----------------|
| SP • Pregalvanized | 2 • Series 2 | 5 • (5 in.) | 06 • (6 in.) | L06 • 6 in. rung spacing | 3 • (3 meters) |
| SH • Hot-dipped galvanized after fabrication | 4 • Series 4 | | 09 • (9 in.) | L09 • 9 in. rung spacing | 6 • (6 meters) |
| SS • Stainless steel 316 | 5 • Series 5 | | 12 • (12 in.) | L12 • 12 in. rung spacing | 144 • (12 ft.) |
| | | | 18 • (18 in.) | V • Ventilated | 288 • (24 ft.) |
| | | | 24 • (24 in.) | S • Solid trough | |
| | | | 30 • (30 in.) | | |
| | | | 36 • (36 in.) | | |
| | | | 42 • (42 in.) | | |

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | | | | | | |
|--------------|-------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| SP2-5 | Load (lb./ft.) | 556 | 313 | 200 | 139 | 102 | 78 | 62 | 50 |
| | Deflection (in.) | 0.187 | 0.332 | 0.519 | 0.747 | 1.017 | 1.329 | 1.682 | 2.076 |
| | Deflection Factor | 0.0003 | 0.0011 | 0.0026 | 0.0054 | 0.0100 | 0.0170 | 0.0271 | 0.042 |
| SP4-5 | Load (lb./ft.) | 833 | 469 | 300 | 208 | 153 | 117 | 93 | 75 |
| | Deflection (in.) | 0.216 | 0.384 | 0.600 | 0.864 | 1.176 | 1.536 | 1.944 | 2.400 |
| | Deflection Factor | 0.003 | 0.0008 | 0.0021 | 0.0043 | 0.0077 | 0.0131 | 0.0211 | 0.0320 |
| SP5-5 | Load (lb./ft.) | – | 625 | 400 | 278 | 204 | 156 | 123 | 100 |
| | Deflection (in.) | – | 0.414 | 0.647 | 0.932 | 1.268 | 1.657 | 2.097 | 2.589 |
| | Deflection Factor | – | 0.0007 | 0.0016 | 0.0034 | 0.0062 | 0.0106 | 0.0169 | 0.0259 |
| SH5-5 | Load (lb./ft.) | – | 625 | 400 | 278 | 204 | 156 | 123 | 100 |
| | Deflection (in.) | – | 0.414 | 0.647 | 0.932 | 1.268 | 1.657 | 2.097 | 2.589 |
| | Deflection Factor | – | 0.0007 | 0.0016 | 0.0034 | 0.0062 | 0.0106 | 0.0169 | 0.0259 |
| SS5-5 | Load (lb./ft.) | – | 625 | 400 | 278 | 204 | 156 | 123 | 100 |
| | Deflection (in.) | – | 0.414 | 0.647 | 0.932 | 1.268 | 1.657 | 2.097 | 2.589 |
| | Deflection Factor | – | 0.0007 | 0.0016 | 0.0034 | 0.0062 | 0.0106 | 0.0169 | 0.0259 |

Straight Lengths

5 in. Straight Sections

Series 2-5, 4-5, 5-5

Ladder, ventilated and solid trough



Dimensions

| SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5 | |
|--|----------|
| W (in.) | Wi (in.) |
| 6 | 3.34 |
| 9 | 6.34 |
| 12 | 9.34 |
| 18 | 15.34 |
| 24 | 21.34 |
| 30 | 27.34 |
| 36 | 33.34 |
| 42 | 39.34 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | | |
|--------------|------------|--|-----------------|--------------|---|----------------------|
| | | | NEMA | CSA | UL | ABS |
| SP2-5 | | $I_x = 2.89 \text{ in.}^4$ $S_x = 1.09 \text{ in.}^3$ Area = 0.778 in. ² | 20A | D/6M | UL cross sectional Area : 0.70 in. ² | Stainless steel only |
| SH2-5 | | | | | | |
| SS2-5 | | | | | | |
| SP4-5 | | $I_x = 3.75 \text{ in.}^4$ $S_x = 1.40 \text{ in.}^3$ Area = 1.018 in. ² | 20B | E/6M | UL cross sectional Area : 1.00 in. ² | Stainless steel only |
| SH4-5 | | | | | | |
| SS4-5 | | | | | | |
| SP5-5 | | $I_x = 4.635 \text{ in.}^4$ $S_x = 1.732 \text{ in.}^3$ Area = 1.24 in. ² | 20C | Exceeds E/6M | UL cross sectional Area : 1.00 in. ² | Stainless steel only |
| SH5-5 | | | | | | |
| SS5-5 | | | | | | |

Straight Lengths

6 in. Straight Sections

Series 1-6, 3-6, 4-6

Ladder, ventilated and solid trough

Straight Section Number Selection

| SH3624L12-6 | | | | | |
|--|--|--|--|--|--|
| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length |
| SP • Pregalvanized SH • Hot-dipped galvanized after fabrication SS • Stainless Steel 316 | 1 • Series 1 3 • Series 3 4 • Series 4 | 6 • (6 in.) 9 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid trough | 3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.) |

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

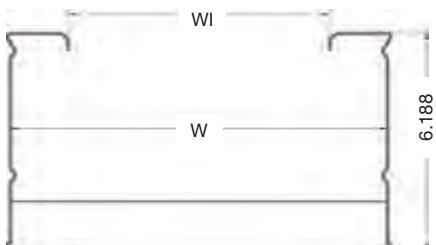
| Series | | Support Span (Feet) | | | | | | | |
|--------------|-------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| SP1-6 | Load (lb./ft.) | 556 | 313 | 200 | 139 | 102 | 78 | 62 | 50 |
| | Deflection (in.) | 0.122 | 0.216 | 0.338 | 0.486 | 0.662 | 0.865 | 1.095 | 1.351 |
| | Deflection Factor | 0.0002 | 0.0007 | 0.0017 | 0.0036 | 0.0065 | 0.0111 | 0.0177 | 0.0270 |
| SP3-6 | Load (lb./ft.) | 833 | 469 | 300 | 208 | 153 | 117 | 93 | 75 |
| | Deflection (in.) | 0.151 | 0.268 | 0.419 | 0.603 | 0.821 | 1.072 | 1.357 | 1.675 |
| | Deflection Factor | 0.0002 | 0.0006 | 0.0014 | 0.0030 | 0.0055 | 0.0092 | 0.0146 | 0.0223 |
| SP4-6 | Load (lb./ft.) | – | 728 | 466 | 324 | 238 | 182 | 144 | 117 |
| | Deflection (in.) | – | 0.312 | 0.487 | 0.702 | 0.955 | 1.247 | 1.579 | 1.949 |
| | Deflection Factor | – | 0.0004 | 0.0011 | 0.0022 | 0.0041 | 0.0069 | 0.0110 | 0.0167 |
| SH4-6 | Load (lb./ft.) | – | 728 | 466 | 324 | 238 | 182 | 144 | 117 |
| | Deflection (in.) | – | 0.312 | 0.487 | 0.702 | 0.955 | 1.247 | 1.579 | 1.949 |
| | Deflection Factor | – | 0.0004 | 0.0011 | 0.0022 | 0.0041 | 0.0069 | 0.0110 | 0.0167 |
| SS4-6 | Load (lb./ft.) | – | 728 | 466 | 324 | 238 | 182 | 144 | 117 |
| | Deflection (in.) | – | 0.312 | 0.487 | 0.702 | 0.955 | 1.247 | 1.579 | 1.949 |
| | Deflection Factor | – | 0.0004 | 0.0011 | 0.0022 | 0.0041 | 0.0069 | 0.0110 | 0.0167 |

Straight Lengths

6 in. Straight Sections

Series 1-6, 3-6, 4-6

Ladder, ventilated and solid trough



Dimensions

| SP1-6, SH1-6, SS1-6, SP3-6, SH3-6, SS3-6, SP4-6, SH4-6, SS4-6 | |
|--|----------|
| W (in.) | Wi (in.) |
| 6 | 3.34 |
| 9 | 6.34 |
| 12 | 9.34 |
| 18 | 15.34 |
| 24 | 21.34 |
| 30 | 27.34 |
| 36 | 33.34 |
| 42 | 39.34 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | | |
|--------------|------------|---|-----------------|--------------|---|----------------------|
| | | | NEMA | CSA | UL | ABS |
| SP1-6 | | $I_x = 4.44 \text{ in.}^4$ $S_x = 1.39 \text{ in.}^3$ Area = 0.874 in. ² | 20A | D/6M | UL cross sectional Area : 0.70 in. ² | Stainless steel only |
| SH1-6 | | | | | | |
| SS1-6 | | | | | | |
| SP3-6 | | $I_x = 5.373 \text{ in.}^4$ $S_x = 1.70 \text{ in.}^3$ Area = 1.229 in. ² | 20A | E/6M | UL cross sectional Area : 1.00 in. ² | Stainless steel only |
| SH3-6 | | | | | | |
| SS3-6 | | | | | | |
| SP4-6 | | $I_x = 7.173 \text{ in.}^4$ $S_x = 2.250 \text{ in.}^3$ Area = 1.471 in. ² | 20C | Exceeds E/6M | UL cross sectional Area : 1.00 in. ² | Stainless steel only |
| SH4-6 | | | | | | |
| SS4-6 | | | | | | |

Straight Lengths

7 in. Straight Sections Series 3-7

Ladder, ventilated and solid trough

Straight Section Number Selection

SH3724L09288

| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length |
|--|--------------|------------------|--|---|--|
| SP • Pregalvanized SH • Hot-dipped galvanized after fabrication SS • Stainless Steel 316 | 3 • Series 3 | 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated * S • Solid trough | 3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.) |

* For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A91.

| Series | Load (lb./ft.) | Support Span (Feet) | | | | | | |
|--------------|----------------|---------------------|-------|-------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| SP3-7 | — | 750 | 480 | 333 | 245 | 188 | 148 | 120 |
| SH3-7 | — | 0.221 | 0.346 | 0.498 | 0.678 | 0.885 | 1.120 | 1.383 |
| SS3-7 | — | 0.0003 | 0.001 | 0.002 | 0.003 | 0.005 | 0.008 | 0.012 |

Straight Lengths

7 in. Straight Sections

Series 3-7

Ladder, ventilated and solid trough



Dimensions

| SP3-7, SH3-7, SS3-7 | |
|---------------------|----------|
| W (in.) | Wi (in.) |
| 6 | 3.34 |
| 9 | 6.34 |
| 12 | 9.34 |
| 18 | 15.34 |
| 24 | 21.34 |
| 30 | 27.34 |
| 36 | 33.34 |
| 42 | 39.34 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

| Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications | | | |
|--------------|------------|---|-----------------|--------------|---|----------------------|
| | | | NEMA | CSA | UL | ABS |
| SP3-7 | | I _x = 10.411 in. ⁴ S _x = 2.820 in. ³ Area = 1.54 in. ² | Exceeds 20C | Exceeds E/6M | UL cross sectional Area : 1.50 in. ² | Stainless steel only |
| SH3-7 | | | | | | |
| SS3-7 | | | | | | |

New

Fittings

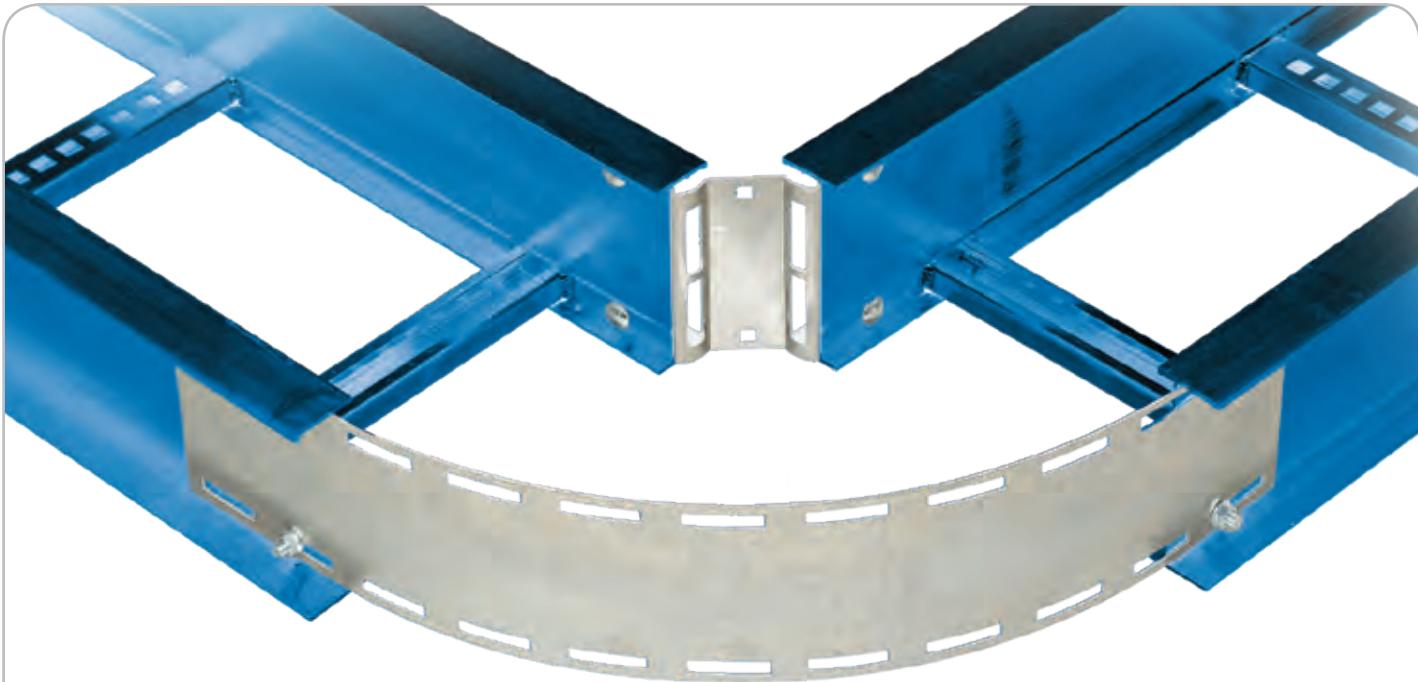
Flexible Coupler

Introducing our new Flexible Coupler

Exterior strap provides accurate radius to meet your cable tray design requirements.

The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

- Formed ribs provide better cable protection
- Fast and easy installation
- Meets the electrical continuity requirement of NEMA VE1 & CSA C22.2 No. 126.1

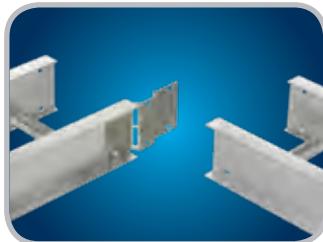


- ✓ Reduces installation time
- ✓ No need for a bonding jumper
- ✓ Flexible and economical alternative to regular AU/AH fitting



Fittings

Flexible Coupler



Fasten flexible coupler to tray.



Bend.



Fasten to the other length of cable tray.



Fasten the strap.

Steel – Flexible coupler



Optional rung information (Provides additional cable support)

| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|-------------------|-------------------|------------------------|------------------|
| (Prefix)-(*)06HBP | SPW SHW SSW | 4 5 6 7 | 06 |
| (Prefix)-(*)09HBP | | | 09 |
| (Prefix)-(*)12HBP | | | 12 |
| (Prefix)-(*)18HBP | | | 18 |
| (Prefix)-(*)24HBP | | | 24 |
| (Prefix)-(*)30HBP | | | 30 |
| (Prefix)-(*)36HBP | | | 36 |

*Insert side rail height

| Cat. No. | Material | Tray Width (in.) |
|-----------------|-------------------|------------------|
| (Prefix)-R06HBP | SPW SHW SSW | 06 |
| (Prefix)-R09HBP | | 09 |
| (Prefix)-R12HBP | | 12 |
| (Prefix)-R18HBP | | 18 |
| (Prefix)-R24HBP | | 24 |
| (Prefix)-R30HBP | | 30 |
| (Prefix)-R36HBP | | 36 |

Load rating with optional rung

| Tray width | Side Rail Height | | |
|--------------------------------|---------------------------|---------------------------------|---------------------------------|
| | 3 in. (76 mm) | 4 and 5 in. (102 and 127 mm) | 6 and 7 in. (152 and 178 mm) |
| 36 in. (914 mm) | 50 lb./ft. (74 kg/m) | Al: 75 lb./ft. (112 kg/m) | Steel: 50 lb./ft. (74 kg/m) |
| 30 in. (762 mm) | 75 lb./ft. (112 kg/m) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) |
| 6 to 24 in. (152 to 610 mm) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) | 100 lb./ft. (149 kg/m) |

Fittings

Fittings Number Selection

Fitting Number Selection

SHF624LVO9024

| Material Prefix | Side Rail Height | Width | Bottom Type | Fitting Type | Angle† | Nominal Radius** |
|-----------------------------|------------------|---------------|-----------------------|-----------------------------------|------------|------------------|
| SPF • Pregalvanized | 3 • (3-5/8 in.) | 06 • (6 in.) | L • Ladder * | HB • Horizontal bend | 30 • (30°) | 12 • (12 in.) |
| SHF • Hot-dipped galvanized | 4 • (4 in.) | 09 • (9 in.) | V • Ventilated *** | HT • Horizontal tee | 45 • (45°) | 24 • (24 in.) |
| SSF • Stainless Steel 316 | 5 • (5 in.) | 12 • (12 in.) | S • Solid trough **** | HX • Horizontal cross | 60 • (60°) | 36 • (36 in.) |
| | 6 • (6 in.) | 18 • (18 in.) | | VI • Vertical inside bend | 90 • (90°) | 48 • (48 in.) |
| | 7 • (7 in.) | 24 • (24 in.) | | VO • Vertical outside bend | | |
| | | 30 • (30 in.) | | VTD • Vertical tee down | | |
| | | 36 • (36 in.) | | VTU • Vertical tee up | | |
| | | 42 • (42 in.) | | HYR • Horizontal wye right | | |
| | | | | HYL • Horizontal wye left | | |
| | | | | RT • Horizontal reducing tee | | |
| | | | | ET • Horizontal expanding tee | | |
| | | | | EX • Horizontal expand cross | | |
| | | | | HLR • Horizontal left reducer | | |
| | | | | HSR • Horizontal straight reducer | | |
| | | | | HRR • Horizontal right reducer | | |
| | | | | CS • Cable support fitting | | |

† For HB, VI, VO fitting types only.

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

** Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR.

*** Manufactured with 4 in. edge to edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Fittings

90° / 60° Horizontal Bends

Part Numbering System

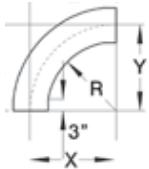
SHF 4 24 L HB90 12

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Side rail height
Width
Fitting type
Angle
Nominal radius

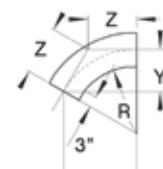
Selection Guide

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Angle: 90°, 60°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

90° Horizontal BEND



60° Horizontal BEND



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|--------------------------|------------|--------|
| Radius | Width | | X | Y |
| 12 | 6 | Prefix(†)-06-(*)-HB90-12 | 15 | 15 |
| | 9 | Prefix(†)-09-(*)-HB90-12 | 16-1/2 | 16-1/2 |
| | 12 | Prefix(†)-12-(*)-HB90-12 | 18 | 18 |
| | 18 | Prefix(†)-18-(*)-HB90-12 | 21 | 21 |
| | 24 | Prefix(†)-24-(*)-HB90-12 | 24 | 24 |
| | 30 | Prefix(†)-30-(*)-HB90-12 | 27 | 27 |
| | 36 | Prefix(†)-36-(*)-HB90-12 | 30 | 30 |
| | 42 | Prefix(†)-42-(*)-HB90-12 | 33 | 33 |
| | 6 | Prefix(†)-06-(*)-HB90-24 | 27 | 27 |
| | 9 | Prefix(†)-09-(*)-HB90-24 | 28-1/2 | 28-1/2 |
| | 12 | Prefix(†)-12-(*)-HB90-24 | 30 | 30 |
| | 18 | Prefix(†)-18-(*)-HB90-24 | 33 | 33 |
| | 24 | Prefix(†)-24-(*)-HB90-24 | 36 | 36 |
| 24 | 30 | Prefix(†)-30-(*)-HB90-24 | 39 | 39 |
| | 36 | Prefix(†)-36-(*)-HB90-24 | 42 | 42 |
| | 42 | Prefix(†)-42-(*)-HB90-24 | 45 | 45 |
| | 6 | Prefix(†)-06-(*)-HB90-36 | 39 | 39 |
| | 9 | Prefix(†)-09-(*)-HB90-36 | 40-1/2 | 40-1/2 |
| | 12 | Prefix(†)-12-(*)-HB90-36 | 42 | 42 |
| | 18 | Prefix(†)-18-(*)-HB90-36 | 45 | 45 |
| | 24 | Prefix(†)-24-(*)-HB90-36 | 48 | 48 |
| | 30 | Prefix(†)-30-(*)-HB90-36 | 51 | 51 |
| | 36 | Prefix(†)-36-(*)-HB90-36 | 54 | 54 |
| | 42 | Prefix(†)-42-(*)-HB90-36 | 57 | 57 |
| 36 | 6 | Prefix(†)-06-(*)-HB90-48 | 51 | 51 |
| | 9 | Prefix(†)-09-(*)-HB90-48 | 52-1/2 | 52-1/2 |
| | 12 | Prefix(†)-12-(*)-HB90-48 | 54 | 54 |
| | 18 | Prefix(†)-18-(*)-HB90-48 | 57 | 57 |
| | 24 | Prefix(†)-24-(*)-HB90-48 | 60 | 60 |
| | 30 | Prefix(†)-30-(*)-HB90-48 | 63 | 63 |
| | 36 | Prefix(†)-36-(*)-HB90-48 | 66 | 66 |
| | 42 | Prefix(†)-42-(*)-HB90-48 | 69 | 69 |

| Nominal | | Cat. No. | Dimensions | | |
|---------|-------|--------------------------|------------|--------|----------|
| Radius | Width | | X | Y | Z |
| 12 | 6 | Prefix(†)-06-(*)-HB60-12 | 14-7/8 | 8-5/8 | 9-15/16 |
| | 9 | Prefix(†)-09-(*)-HB60-12 | 16-3/16 | 9-3/8 | 10-13/16 |
| | 12 | Prefix(†)-12-(*)-HB60-12 | 17-1/2 | 10-1/8 | 11-11/16 |
| | 18 | Prefix(†)-18-(*)-HB60-12 | 20-1/16 | 11-5/8 | 13-3/8 |
| | 24 | Prefix(†)-24-(*)-HB60-12 | 22-11/16 | 13-1/8 | 15-1/8 |
| | 30 | Prefix(†)-30-(*)-HB60-12 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 36 | Prefix(†)-36-(*)-HB60-12 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 42 | Prefix(†)-42-(*)-HB60-12 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 6 | Prefix(†)-06-(*)-HB60-24 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 9 | Prefix(†)-09-(*)-HB60-24 | 26-9/16 | 15-3/8 | 17-3/4 |
| | 12 | Prefix(†)-12-(*)-HB60-24 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 18 | Prefix(†)-18-(*)-HB60-24 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 24 | Prefix(†)-24-(*)-HB60-24 | 33-1/16 | 19-1/8 | 22-1/16 |
| 24 | 30 | Prefix(†)-30-(*)-HB60-24 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 36 | Prefix(†)-36-(*)-HB60-24 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 42 | Prefix(†)-42-(*)-HB60-24 | 40-7/8 | 23-5/8 | 27-1/4 |
| | 6 | Prefix(†)-06-(*)-HB60-36 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 9 | Prefix(†)-09-(*)-HB60-36 | 37 | 21-3/8 | 24-5/8 |
| | 12 | Prefix(†)-12-(*)-HB60-36 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 18 | Prefix(†)-18-(*)-HB60-36 | 40-7/8 | 23-5/8 | 27-2/8 |
| | 24 | Prefix(†)-24-(*)-HB60-36 | 43-1/2 | 25-1/8 | 29 |
| | 30 | Prefix(†)-30-(*)-HB60-36 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 36 | Prefix(†)-36-(*)-HB60-36 | 48-11/16 | 28-1/8 | 32-7/16 |
| | 42 | Prefix(†)-42-(*)-HB60-36 | 51-1/4 | 29-5/8 | 34-3/16 |
| | 6 | Prefix(†)-06-(*)-HB60-48 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 9 | Prefix(†)-09-(*)-HB60-48 | 47-3/8 | 27-3/8 | 31-9/16 |
| | 12 | Prefix(†)-12-(*)-HB60-48 | 48-11/16 | 28-1/8 | 32-7/16 |
| 36 | 18 | Prefix(†)-18-(*)-HB60-48 | 51-4/16 | 29-5/8 | 34-3/16 |
| | 24 | Prefix(†)-24-(*)-HB60-48 | 53-7/8 | 31-1/8 | 35-15/16 |
| | 30 | Prefix(†)-30-(*)-HB60-48 | 56-7/16 | 32-5/8 | 37-5/8 |
| | 36 | Prefix(†)-36-(*)-HB60-48 | 59-1/16 | 34-1/8 | 39-3/8 |
| | 42 | Prefix(†)-42-(*)-HB60-48 | 61-11/16 | 35-5/8 | 41-1/8 |

(†) Insert side rail height (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

45° / 30° Horizontal Bends

Part Numbering System

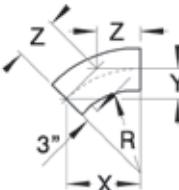
SHF 4 24 L HB45 12

Prefix: SHF (Pregalv.) ,SHF (Hot-Dip) ,SSF (Stainless Steel)
 Side rail height Width Fitting type Nominal radius
 3 in., 4 in., 5 in., 6 in., 7 in. 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

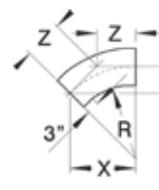
Selection Guide

Prefix: SPF (Pregalv.) ,SHF (Hot-Dip) ,SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

45° Horizontal BEND



30° Horizontal BEND



| Radius | Width | Cat. No. | Dimensions | | |
|--------|-------|--------------------------|------------|----------|----------|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB45-12 | 13-5/8 | 5-5/8 | 8 |
| | 9 | Prefix(t)-09-(*)-HB45-12 | 14-11/16 | 6-1/16 | 8-9/16 |
| | 12 | Prefix(t)-12-(*)-HB45-12 | 15-3/4 | 6-1/2 | 9-3/16 |
| | 18 | Prefix(t)-18-(*)-HB45-12 | 17-7/8 | 7-3/8 | 10-7/16 |
| | 24 | Prefix(t)-24-(*)-HB45-12 | 20 | 8-1/4 | 11-11/16 |
| | 30 | Prefix(t)-30-(*)-HB45-12 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 36 | Prefix(t)-36-(*)-HB45-12 | 24-3/16 | 10 | 14-3/16 |
| | 42 | Prefix(t)-42-(*)-HB45-12 | 26-5/16 | 10-15/16 | 15-7/16 |
| 24 | 6 | Prefix(t)-06-(*)-HB45-24 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 9 | Prefix(t)-09-(*)-HB45-24 | 23-1/8 | 9-9/16 | 13-9/16 |
| | 12 | Prefix(t)-12-(*)-HB45-24 | 24-3/16 | 10 | 14-3/16 |
| | 18 | Prefix(t)-18-(*)-HB45-24 | 26-5/16 | 10-15/16 | 15-7/16 |
| | 24 | Prefix(t)-24-(*)-HB45-24 | 28-7/16 | 11-13/16 | 16-11/16 |
| | 30 | Prefix(t)-30-(*)-HB45-24 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 36 | Prefix(t)-36-(*)-HB45-24 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 42 | Prefix(t)-42-(*)-HB45-24 | 34-13/16 | 14-7/8 | 20-3/8 |
| 36 | 6 | Prefix(t)-06-(*)-HB45-36 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 9 | Prefix(t)-09-(*)-HB45-36 | 31-5/8 | 13-1/8 | 18-9/16 |
| | 12 | Prefix(t)-12-(*)-HB45-36 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 18 | Prefix(t)-18-(*)-HB45-36 | 34-13/16 | 14-7/16 | 20-3/8 |
| | 24 | Prefix(t)-24-(*)-HB45-36 | 36-15/16 | 15-5/16 | 21-5/8 |
| | 30 | Prefix(t)-30-(*)-HB45-36 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 36 | Prefix(t)-36-(*)-HB45-36 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 42 | Prefix(t)-42-(*)-HB45-36 | 43-5/16 | 17-15/16 | 25-3/8 |
| 48 | 6 | Prefix(t)-06-(*)-HB45-48 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 9 | Prefix(t)-09-(*)-HB45-48 | 40-1/8 | 16-3/8 | 23-1/2 |
| | 12 | Prefix(t)-12-(*)-HB45-48 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 18 | Prefix(t)-18-(*)-HB45-48 | 43-5/16 | 17-15/16 | 25-3/8 |
| | 24 | Prefix(t)-24-(*)-HB45-48 | 45-7/16 | 18-13/16 | 26-5/8 |
| | 30 | Prefix(t)-30-(*)-HB45-48 | 47-9/16 | 19-11/16 | 27-7/8 |
| | 36 | Prefix(t)-36-(*)-HB45-48 | 49-11/16 | 20-9/16 | 29-1/8 |
| | 42 | Prefix(t)-42-(*)-HB45-48 | 51-13/16 | 21-7/16 | 30-5/16 |

| Radius | Width | Cat. No. | Dimensions | | |
|--------|-------|--------------------------|------------|---------|----------|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB30-12 | 11-5/8 | 3-1/8 | 6-3/16 |
| | 9 | Prefix(t)-09-(*)-HB30-12 | 12-3/8 | 3-5/16 | 6-5/8 |
| | 12 | Prefix(t)-12-(*)-HB30-12 | 13-1/2 | 3-1/2 | 7 |
| | 18 | Prefix(t)-18-(*)-HB30-12 | 14-5/8 | 3-15/16 | 7-13/16 |
| | 24 | Prefix(t)-24-(*)-HB30-12 | 16-1/8 | 4-5/16 | 8-5/8 |
| | 30 | Prefix(t)-30-(*)-HB30-12 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 36 | Prefix(t)-36-(*)-HB30-12 | 19-1/8 | 5-1/8 | 10-1/4 |
| | 42 | Prefix(t)-42-(*)-HB30-12 | 20-5/8 | 5-1/2 | 11-1/16 |
| 24 | 6 | Prefix(t)-06-(*)-HB30-24 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 9 | Prefix(t)-09-(*)-HB30-24 | 18-3/8 | 4-15/16 | 9-13/16 |
| | 12 | Prefix(t)-12-(*)-HB30-24 | 19-1/8 | 5-2/16 | 10-4/16 |
| | 18 | Prefix(t)-18-(*)-HB30-24 | 20-5/8 | 5-8/16 | 11-1/16 |
| | 24 | Prefix(t)-24-(*)-HB30-24 | 22-1/8 | 5-15/16 | 11-13/16 |
| | 30 | Prefix(t)-30-(*)-HB30-24 | 23-5/8 | 6-5/16 | 12-10/16 |
| | 36 | Prefix(t)-36-(*)-HB30-24 | 25-1/8 | 6-12/16 | 13-7/16 |
| | 42 | Prefix(t)-42-(*)-HB30-24 | 26-5/8 | 7-1/8 | 14-1/4 |
| 36 | 6 | Prefix(t)-06-(*)-HB30-36 | 23-5/8 | 6-5/16 | 12-5/8 |
| | 9 | Prefix(t)-09-(*)-HB30-36 | 24-3/8 | 6-1/2 | 13-1/16 |
| | 12 | Prefix(t)-12-(*)-HB30-36 | 25-1/8 | 6-3/4 | 13-7/16 |
| | 18 | Prefix(t)-18-(*)-HB30-36 | 26-5/8 | 7-1/4 | 14-1/4 |
| | 24 | Prefix(t)-24-(*)-HB30-36 | 28-1/8 | 7-1/2 | 15-1/16 |
| | 30 | Prefix(t)-30-(*)-HB30-36 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 36 | Prefix(t)-36-(*)-HB30-36 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 42 | Prefix(t)-42-(*)-HB30-36 | 32-5/8 | 8-3/4 | 17-1/2 |
| 48 | 6 | Prefix(t)-06-(*)-HB30-48 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 9 | Prefix(t)-09-(*)-HB30-48 | 30-3/8 | 8-1/8 | 16-1/4 |
| | 12 | Prefix(t)-12-(*)-HB30-48 | 31-1/8 | 8-5/16 | 16-11/16 |
| | 18 | Prefix(t)-18-(*)-HB30-48 | 32-5/8 | 8-3/4 | 17-1/2 |
| | 24 | Prefix(t)-24-(*)-HB30-48 | 34-1/8 | 9-1/8 | 18-1/4 |
| | 30 | Prefix(t)-30-(*)-HB30-48 | 35-5/8 | 9-9/16 | 19-1/16 |
| | 36 | Prefix(t)-36-(*)-HB30-48 | 37-1/8 | 9-15/16 | 19-7/8 |
| | 42 | Prefix(t)-42-(*)-HB30-48 | 38-5/8 | 10-5/16 | 20-11/16 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Tees, Crosses

Part Numbering System

SHF 4 24 L HT 12

Prefix
SPF, SHF, SSF

Width

Fitting type

Nominal radius

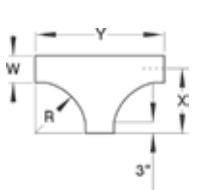
Side rail height

Bottom style

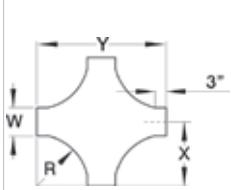
Selection Guide

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal TEE



Horizontal CROSS



| Nominal | | Cat. No. | Dimensions | |
|---------|-------|-----------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | Prefix(t)-06-(*)-HT12 | 15 | 30 |
| | 9 | Prefix(t)-09-(*)-HT12 | 16-1/2 | 33 |
| | 12 | Prefix(t)-12-(*)-HT12 | 18 | 36 |
| | 18 | Prefix(t)-18-(*)-HT12 | 21 | 42 |
| | 24 | Prefix(t)-24-(*)-HT12 | 24 | 48 |
| | 30 | Prefix(t)-30-(*)-HT12 | 27 | 54 |
| | 36 | Prefix(t)-36-(*)-HT12 | 30 | 60 |
| | 42 | Prefix(t)-42-(*)-HT12 | 33 | 66 |
| 24 | 6 | Prefix(t)-06-(*)-HT24 | 27 | 54 |
| | 9 | Prefix(t)-09-(*)-HT24 | 28-1/2 | 57 |
| | 12 | Prefix(t)-12-(*)-HT24 | 30 | 60 |
| | 18 | Prefix(t)-18-(*)-HT24 | 33 | 66 |
| | 24 | Prefix(t)-24-(*)-HT24 | 36 | 72 |
| | 30 | Prefix(t)-30-(*)-HT24 | 39 | 78 |
| | 36 | Prefix(t)-36-(*)-HT24 | 42 | 84 |
| | 42 | Prefix(t)-42-(*)-HT24 | 45 | 90 |
| 36 | 6 | Prefix(t)-06-(*)-HT36 | 39 | 78 |
| | 9 | Prefix(t)-09-(*)-HT36 | 40-1/2 | 81 |
| | 12 | Prefix(t)-12-(*)-HT36 | 42 | 84 |
| | 18 | Prefix(t)-18-(*)-HT36 | 45 | 90 |
| | 24 | Prefix(t)-24-(*)-HT36 | 48 | 96 |
| | 30 | Prefix(t)-30-(*)-HT36 | 51 | 102 |
| | 36 | Prefix(t)-36-(*)-HT36 | 54 | 108 |
| | 42 | Prefix(t)-42-(*)-HT36 | 57 | 114 |
| 48 | 6 | Prefix(t)-06-(*)-HT48 | 51 | 102 |
| | 9 | Prefix(t)-09-(*)-HT48 | 52-1/2 | 105 |
| | 12 | Prefix(t)-12-(*)-HT48 | 54 | 108 |
| | 18 | Prefix(t)-18-(*)-HT48 | 57 | 114 |
| | 24 | Prefix(t)-24-(*)-HT48 | 60 | 120 |
| | 30 | Prefix(t)-30-(*)-HT48 | 63 | 126 |
| | 36 | Prefix(t)-36-(*)-HT48 | 66 | 132 |
| | 42 | Prefix(t)-42-(*)-HT48 | 69 | 138 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.
 ¥ Shipped with SPW-3/8HXHWK hardware kit.

| Nominal | | Cat. No. | Dimensions | |
|---------|-------|-----------------------|------------|-----|
| Radius | Width | | X | Y |
| 12 | 6 | Prefix(t)-06-(*)-HX12 | 15 | 30 |
| | 9 | Prefix(t)-09-(*)-HX12 | 16-1/2 | 33 |
| | 12 | Prefix(t)-12-(*)-HX12 | 18 | 36 |
| | 18 | Prefix(t)-18-(*)-HX12 | 21 | 42 |
| | 24 | Prefix(t)-24-(*)-HX12 | 24 | 48 |
| | 30 | Prefix(t)-30-(*)-HX12 | 27 | 54 |
| | 36 | Prefix(t)-36-(*)-HX12 | 30 | 60 |
| | 42 | Prefix(t)-42-(*)-HX12 | 33 | 66 |
| 24 | 6 | Prefix(t)-06-(*)-HX24 | 27 | 54 |
| | 9 | Prefix(t)-09-(*)-HX24 | 28-1/2 | 57 |
| | 12 | Prefix(t)-12-(*)-HX24 | 30 | 60 |
| | 18 | Prefix(t)-18-(*)-HX24 | 33 | 66 |
| | 24 | Prefix(t)-24-(*)-HX24 | 36 | 72 |
| | 30 | Prefix(t)-30-(*)-HX24 | 39 | 78 |
| | 36 | Prefix(t)-36-(*)-HX24 | 42 | 84 |
| | 42 | Prefix(t)-42-(*)-HX24 | 45 | 90 |
| 36 | 6 | Prefix(t)-06-(*)-HX36 | 39 | 78 |
| | 9 | Prefix(t)-09-(*)-HX36 | 40-1/2 | 81 |
| | 12 | Prefix(t)-12-(*)-HX36 | 42 | 84 |
| | 18 | Prefix(t)-18-(*)-HX36 | 45 | 90 |
| | 24 | Prefix(t)-24-(*)-HX36 | 48 | 96 |
| | 30 | Prefix(t)-30-(*)-HX36 | 51 | 102 |
| | 36 | Prefix(t)-36-(*)-HX36 | 54 | 108 |
| | 42 | Prefix(t)-42-(*)-HX36 | 57 | 114 |
| 48 | 6 | Prefix(t)-06-(*)-HX48 | 51 | 102 |
| | 9 | Prefix(t)-09-(*)-HX48 | 52-1/2 | 105 |
| | 12 | Prefix(t)-12-(*)-HX48 | 54 | 108 |
| | 18 | Prefix(t)-18-(*)-HX48 | 57 | 114 |
| | 24 | Prefix(t)-24-(*)-HX48 | 60 | 120 |
| | 30 | Prefix(t)-30-(*)-HX48 | 63 | 126 |
| | 36 | Prefix(t)-36-(*)-HX48 | 66 | 132 |
| | 42 | Prefix(t)-42-(*)-HX48 | 69 | 138 |

Fittings

Horizontal Reducing Tees

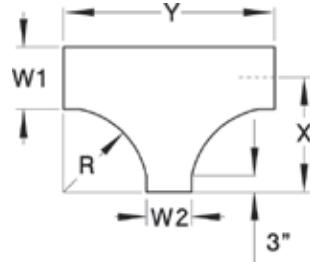
Part Numbering System

SHF 4 3024 L RT 12

Prefix: SHF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Width 1: 42, 36, 30, 24, 18, 12, 9
 Width 2: 36, 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Selection Guide

Horizontal REDUCING TEE – U-Style



| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | | (+) 48 in. Nominal Radius | |
|--------|----|--------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 42 | 36 | Prefix(†)-4236-(*)-RT(+) | 33 | 60 | 45 | 84 | 57 | 108 | 69 | 132 |
| | 30 | Prefix(†)-4230-(*)-RT(+) | 33 | 54 | 45 | 78 | 57 | 102 | 69 | 126 |
| | 24 | Prefix(†)-4224-(*)-RT(+) | 33 | 48 | 45 | 72 | 57 | 96 | 69 | 120 |
| | 18 | Prefix(†)-4218-(*)-RT(+) | 33 | 42 | 45 | 66 | 57 | 90 | 69 | 114 |
| | 12 | Prefix(†)-4212-(*)-RT(+) | 33 | 36 | 45 | 60 | 57 | 84 | 69 | 108 |
| | 9 | Prefix(†)-4209-(*)-RT(+) | 33 | 33 | 45 | 57 | 57 | 81 | 69 | 105 |
| | 6 | Prefix(†)-4206-(*)-RT(+) | 33 | 30 | 45 | 54 | 57 | 78 | 69 | 102 |
| 36 | 30 | Prefix(†)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 | 66 | 126 |
| | 24 | Prefix(†)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 | 66 | 120 |
| | 18 | Prefix(†)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 | 66 | 114 |
| | 12 | Prefix(†)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 | 66 | 108 |
| | 9 | Prefix(†)-3609-(*)-RT(+) | 30 | 33 | 42 | 57 | 54 | 81 | 66 | 105 |
| | 6 | Prefix(†)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 | 66 | 102 |
| 30 | 24 | Prefix(†)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 | 63 | 120 |
| | 18 | Prefix(†)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 | 63 | 114 |
| | 12 | Prefix(†)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 | 63 | 108 |
| | 9 | Prefix(†)-3009-(*)-RT(+) | 27 | 33 | 39 | 57 | 51 | 81 | 63 | 105 |
| | 6 | Prefix(†)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 | 63 | 102 |
| 24 | 18 | Prefix(†)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 | 60 | 114 |
| | 12 | Prefix(†)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 | 60 | 108 |
| | 9 | Prefix(†)-2409-(*)-RT(+) | 24 | 33 | 36 | 57 | 48 | 81 | 60 | 105 |
| | 6 | Prefix(†)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 | 60 | 102 |
| 18 | 12 | Prefix(†)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 | 57 | 108 |
| | 9 | Prefix(†)-1809-(*)-RT(+) | 21 | 33 | 33 | 57 | 45 | 81 | 57 | 105 |
| | 6 | Prefix(†)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 | 57 | 102 |
| 12 | 9 | Prefix(†)-1209-(*)-RT(+) | 18 | 33 | 30 | 57 | 42 | 81 | 54 | 105 |
| | 6 | Prefix(†)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 | 54 | 102 |
| 9 | 6 | Prefix(†)-0906-(*)-RT(+) | 16-1/2 | 30 | 28-1/2 | 54 | 40-1/2 | 78 | 52-1/2 | 102 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Tees

| Part Numbering System | | | | Selection Guide | | | |
|---------------------------|---------|---------|--------------|--|--|--|--|
| SHF 4 2430 L ET 12 | | | | | | | |
| Prefix SPF, SHF, SSF | Width 1 | Width 2 | Fitting type | Nominal radius | | | |
| Side rail height | | | Bottom style | | | | |
| | | | | Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel) | | | |
| | | | | Tray Widths W1: 36, 30, 24, 18, 12, 9, 6 | | | |
| | | | | Tray Widths W2: 42, 36, 30, 24, 18, 12, 9 | | | |
| | | | | Nominal Radius: 12, 24, 36, 48 | | | |
| | | | | Bottom Styles: L–Ladder, V–Ventilated, S–Solid | | | |
| | | | | Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in. | | | |



| Widths | | Cat. No. | (+ 12 in. Nominal Radius) | | (+ 24 in. Nominal Radius) | | (+ 36 in. Nominal Radius) | | (+ 48 in. Nominal Radius) | |
|-----------|----|--------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 | Prefix(t)-3642-(*)-ET(+) | 30 | 66 | 42 | 90 | 54 | 114 | 66 | 138 |
| 30 | 36 | Prefix(t)-3036-(*)-ET(+) | 27 | 60 | 39 | 84 | 51 | 108 | 63 | 132 |
| | 42 | Prefix(t)-3042-(*)-ET(+) | 27 | 66 | 39 | 90 | 51 | 114 | 63 | 138 |
| 24 | 30 | Prefix(t)-2430-(*)-ET(+) | 24 | 54 | 36 | 78 | 48 | 102 | 60 | 126 |
| | 36 | Prefix(t)-2436-(*)-ET(+) | 24 | 60 | 36 | 84 | 48 | 108 | 60 | 132 |
| | 42 | Prefix(t)-2442-(*)-ET(+) | 24 | 66 | 36 | 90 | 48 | 114 | 60 | 138 |
| | 24 | Prefix(t)-1824-(*)-ET(+) | 21 | 48 | 33 | 72 | 45 | 96 | 57 | 120 |
| 18 | 30 | Prefix(t)-1830-(*)-ET(+) | 21 | 54 | 33 | 78 | 45 | 102 | 57 | 126 |
| | 36 | Prefix(t)-1836-(*)-ET(+) | 21 | 60 | 33 | 84 | 45 | 108 | 57 | 132 |
| | 42 | Prefix(t)-1842-(*)-ET(+) | 21 | 66 | 33 | 90 | 45 | 114 | 57 | 138 |
| | 18 | Prefix(t)-1218-(*)-ET(+) | 18 | 42 | 30 | 66 | 42 | 90 | 54 | 114 |
| 12 | 24 | Prefix(t)-1224-(*)-ET(+) | 18 | 48 | 30 | 72 | 42 | 96 | 54 | 120 |
| | 30 | Prefix(t)-1230-(*)-ET(+) | 18 | 54 | 30 | 78 | 42 | 102 | 54 | 126 |
| | 36 | Prefix(t)-1236-(*)-ET(+) | 18 | 60 | 30 | 84 | 42 | 108 | 54 | 132 |
| | 42 | Prefix(t)-1242-(*)-ET(+) | 18 | 66 | 30 | 90 | 42 | 114 | 54 | 138 |
| | 12 | Prefix(t)-0912-(*)-ET(+) | 16-1/2 | 36 | 28-1/2 | 60 | 40-1/2 | 84 | 52-1/2 | 108 |
| 9 | 18 | Prefix(t)-0918-(*)-ET(+) | 16-1/2 | 42 | 28-1/2 | 66 | 40-1/2 | 90 | 52-1/2 | 114 |
| | 24 | Prefix(t)-0924-(*)-ET(+) | 16-1/2 | 48 | 28-1/2 | 72 | 40-1/2 | 96 | 52-1/2 | 120 |
| | 30 | Prefix(t)-0930-(*)-ET(+) | 16-1/2 | 54 | 28-1/2 | 78 | 40-1/2 | 102 | 52-1/2 | 126 |
| | 36 | Prefix(t)-0936-(*)-ET(+) | 16-1/2 | 60 | 28-1/2 | 84 | 40-1/2 | 108 | 52-1/2 | 132 |
| | 42 | Prefix(t)-0942-(*)-ET(+) | 16-1/2 | 66 | 28-1/2 | 90 | 40-1/2 | 114 | 52-1/2 | 138 |
| | 9 | Prefix(t)-0609-(*)-ET(+) | 15 | 33 | 27 | 57 | 39 | 81 | 51 | 105 |
| 6 | 12 | Prefix(t)-0612-(*)-ET(+) | 15 | 36 | 27 | 60 | 39 | 84 | 51 | 108 |
| | 18 | Prefix(t)-0618-(*)-ET(+) | 15 | 42 | 27 | 66 | 39 | 90 | 51 | 114 |
| | 24 | Prefix(t)-0624-(*)-ET(+) | 15 | 48 | 27 | 72 | 39 | 96 | 51 | 120 |
| | 30 | Prefix(t)-0630-(*)-ET(+) | 15 | 54 | 27 | 78 | 39 | 102 | 51 | 126 |
| | 36 | Prefix(t)-0636-(*)-ET(+) | 15 | 60 | 27 | 84 | 39 | 108 | 51 | 132 |
| | 42 | Prefix(t)-0636-(*)-ET(+) | 15 | 66 | 27 | 90 | 39 | 114 | 51 | 138 |

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in. - 48 in.) to complete CAT. NO. Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Crosses

Part Numbering System

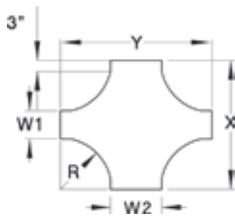
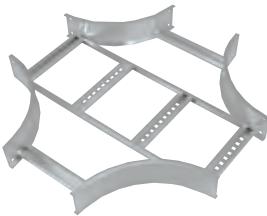
SHF 4 2430 V EX 12

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Width 1
 Width 2
 Bottom style
 Fitting type
 Nominal radius
 Side rail height

Selection Guide

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 42, 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L – Ladder, V – Ventilated, S – Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal EXPANDING CROSS



| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius ² | | (+) 48 in. Nominal Radius ¹ | |
|-----------|----|--------------------------|---------------------------|----|---------------------------|----|--|-----|--|-----|
| W1 | W2 | | X | Y | X | Y | X | Y | X | Y |
| 36 | 42 | Prefix(†)-3642-(*)-EX(+) | 60 | 66 | 84 | 90 | 108 | 114 | 132 | 138 |
| 30 | 36 | Prefix(†)-3036-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 | 126 | 132 |
| | 42 | Prefix(†)-3042-(*)-EX(+) | 54 | 66 | 78 | 90 | 102 | 114 | 126 | 138 |
| 24 | 30 | Prefix(†)-2430-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 | 120 | 126 |
| | 36 | Prefix(†)-2436-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 |
| | 42 | Prefix(†)-2442-(*)-EX(+) | 48 | 66 | 72 | 90 | 96 | 114 | 120 | 138 |
| | 24 | Prefix(†)-1824-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 | 114 | 120 |
| 18 | 30 | Prefix(†)-1830-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 | 114 | 126 |
| | 36 | Prefix(†)-1836-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 | 114 | 132 |
| | 42 | Prefix(†)-1842-(*)-EX(+) | 42 | 66 | 66 | 90 | 90 | 114 | 114 | 138 |
| | 18 | Prefix(†)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| 12 | 24 | Prefix(†)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | Prefix(†)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 108 | 126 |
| | 36 | Prefix(†)-1236-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 | 108 | 132 |
| | 42 | Prefix(†)-1242-(*)-EX(+) | 36 | 66 | 60 | 90 | 84 | 114 | 108 | 138 |
| | 18 | Prefix(†)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 | 108 | 114 |
| 9 | 24 | Prefix(†)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
| | 30 | Prefix(†)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 | 105 | 126 |
| | 36 | Prefix(†)-1236-(*)-EX(+) | 36 | 60 | 57 | 84 | 84 | 108 | 105 | 132 |
| | 42 | Prefix(†)-1242-(*)-EX(+) | 36 | 66 | 57 | 90 | 81 | 114 | 105 | 138 |
| | 12 | Prefix(†)-0912-(*)-EX(+) | 33 | 36 | 57 | 60 | 81 | 84 | 105 | 108 |
| | 18 | Prefix(†)-0918-(*)-EX(+) | 33 | 42 | 57 | 66 | 81 | 90 | 105 | 114 |
| 6 | 24 | Prefix(†)-0924-(*)-EX(+) | 33 | 48 | 57 | 72 | 81 | 96 | 105 | 120 |
| | 30 | Prefix(†)-0930-(*)-EX(+) | 33 | 54 | 57 | 78 | 81 | 102 | 105 | 126 |
| | 36 | Prefix(†)-0936-(*)-EX(+) | 33 | 60 | 57 | 84 | 81 | 108 | 105 | 132 |
| | 42 | Prefix(†)-0942-(*)-EX(+) | 33 | 66 | 57 | 90 | 81 | 114 | 105 | 138 |
| | 9 | Prefix(†)-0609-(*)-EX(+) | 30 | 33 | 54 | 57 | 78 | 81 | 102 | 105 |
| | 12 | Prefix(†)-0612-(*)-EX(+) | 30 | 36 | 54 | 60 | 78 | 84 | 102 | 108 |
| 6 | 18 | Prefix(†)-0618-(*)-EX(+) | 30 | 42 | 54 | 66 | 78 | 90 | 102 | 114 |
| | 24 | Prefix(†)-0624-(*)-EX(+) | 30 | 48 | 54 | 72 | 78 | 96 | 102 | 120 |
| | 30 | Prefix(†)-0630-(*)-EX(+) | 30 | 54 | 54 | 78 | 78 | 102 | 102 | 126 |
| | 36 | Prefix(†)-0636-(*)-EX(+) | 30 | 60 | 54 | 84 | 78 | 108 | 102 | 132 |
| | 42 | Prefix(†)-0642-(*)-EX(+) | 30 | 66 | 54 | 90 | 78 | 114 | 102 | 138 |

(†) Insert side rail height. (*) Insert bottom (+) Insert radius (12 in. - 48 in.) style to complete CAT. NO. Includes 3 pairs of splice plates with hardware.

¹ All 48 in. radius crosses shipped with SPW-3/8HXHWK hardware kit.

² All 36 in. radius crosses with width (W1) 30 in. or larger shipped with SPW-3/8HXHWK hardware kit.

Fittings

90° Vertical Bends

| Part Numbering System | | | | | Selection Guide |
|---------------------------|-------|--------------|----------------|-------|--|
| SHF 4 24 L VI90 12 | | | | | |
| Prefix SPF, SHF, SSF | Width | Fitting type | Nominal radius | Angle | Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel) Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 Angle: 90° Nominal Radius: 12, 24, 36, 48 Bottom Styles: L–Ladder, V–Ventilated, S–Solid Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in. |

Part Numbering System

The diagram illustrates the dimensions and features of the antenna:

- Prefix:** SPF, SHF, SSF
- Width:** Side rail height
- Fitting type:** Bottom style
- Nominal radius:** Angle

Selection Guide

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Angle: 90°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L—Ladder, V—Ventilated, S—Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

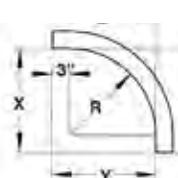
The diagram illustrates two types of 90° vertical bends:

- Outside Bend:** On the left, a photograph shows a metal plate being bent 90 degrees vertically, with the outer radius labeled as R. A technical drawing below it shows the bend with dimensions: height X, width Y, and radius R. The inner leg of the bend has a thickness of 3".
- Inside Bend:** On the right, a photograph shows a metal plate being bent 90 degrees vertically, with the inner radius labeled as R. A technical drawing below it shows the bend with dimensions: height X, width Y, and radius R. The outer leg of the bend has a thickness of 3".

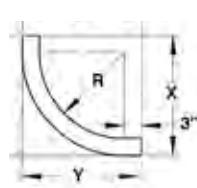
Outside Bend



Inside Bend



A close-up photograph of a curved metal bracket, likely made of stainless steel. The bracket features a ribbed or fluted design along its length and includes several circular holes for mounting. It is shown from a perspective angle, highlighting its three-dimensional form and the precision of its fabrication.



(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

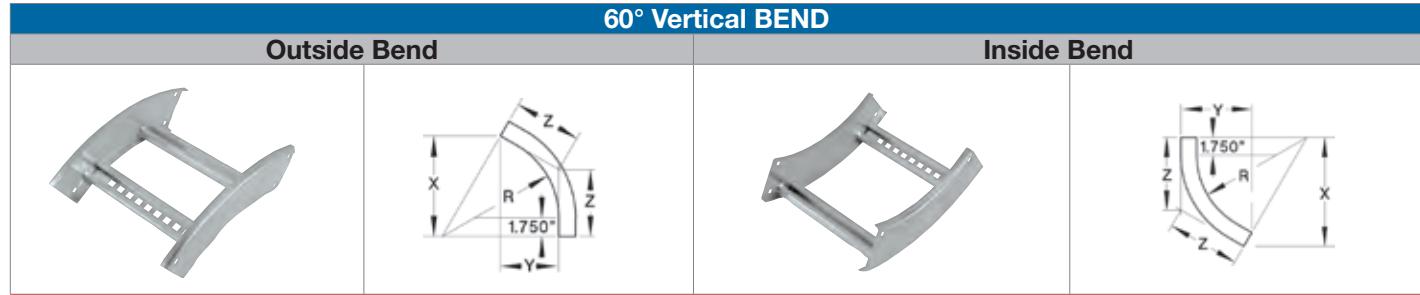
60° Vertical Bends

Part Numbering System

SHF 4 24 L VI60 12

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Width: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L—Ladder, V—Ventilated, S—Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Selection Guide

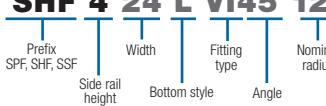
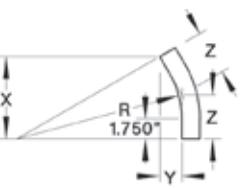


| Nominal | | (+) VO Side Rail | | | (+) VI Side Rail | | | | | | | | | | | | | | | |
|---------|-------|--------------------------|----------|----|-------------------|----------|--------|----------|----------|---------|---------|----------|---------|----------|----------|---------|---------|----------|---------|----------|
| | | 3-5/8 in. – 7 in. | | | 3-1/2 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | | |
| Radius | Width | Cat. No. | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-(+60-12 | 10-3/8 | 6 | 6-15/16 | 13-1/2 | 9-5/8 | 9 | 14 | 10-3/16 | 9-3/8 | 14-7/8 | 11-3/16 | 9-15/16 | 15-3/4 | 12-3/16 | 10-1/2 | 16-5/8 | 13-3/16 | 11-1/16 |
| | 9 | Prefix(t)-09-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-(+60-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | Prefix(t)-06-(*)-(+60-24 | 20-13/16 | 12 | 13-7/8 | 23-15/16 | 15-5/8 | 15-15/16 | 24-7/16 | 16-3/16 | 16-1/4 | 25-1/4 | 17-3/16 | 16-7/8 | 26-1/8 | 18-3/16 | 17-7/16 | 27 | 19-3/16 | 18 |
| | 9 | Prefix(t)-09-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-(+60-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | Prefix(t)-06-(*)-(+60-36 | 31-3/16 | 18 | 20-13/16 | 34-5/16 | 21-5/8 | 22-7/8 | 34-13/16 | 22-3/4 | 23-3/16 | 35-11/16 | 23-3/16 | 23-3/4 | 36-1/2 | 24-3/16 | 24-3/8 | 37-7/16 | 25-3/16 | 24-15/16 |
| | 9 | Prefix(t)-09-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-(+60-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | Prefix(t)-06-(*)-(+60-48 | 41-9/16 | 24 | 27-11/16 | 44-11/16 | 27-5/8 | 29-13/16 | 45-3/16 | 28-3/16 | 30-1/8 | 46-1/16 | 29-3/16 | 30-11/16 | 46-15/16 | 30-3/16 | 31-1/8 | 47-13/16 | 31-3/16 | 31-7/8 |
| | 9 | Prefix(t)-09-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-(+60-48 | | | | | | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

45° Vertical Bends

| Part Numbering System | | | Selection Guide | | | | | | | | | | | | | | |
|--|--------------|--|--|--|--|------------------|-------|---|--------------|--|--|--------------|--|--|--|--|--|
| SHF 4 24 L VI45 12 | | | Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel) | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |
| Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel) Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42 Angle: 45° Nominal Radius: 12, 24, 36, 48 Bottom Styles: L–Ladder, V–Ventilated, S–Solid Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in. | | | | | | | | | | | | | | | | | |
| 45° Vertical BEND | | | | | | | | | | | | | | | | | |
| Outside Bend | | | Inside Bend | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | |
| Nominal | | | (+) VO Side Rail | | | | | | | | | | | | | | |
| | | | 3-5/8 in. – 7 in. | | | 3-1/2 in. | | | 4 in. | | | 5 in. | | | | | |
| Radius | Width | | Cat. No. | | | X | | | Y | | | Z | | | | | |
| 12 | 6 | | Prefix(+)06-(*)-(+)45-12 | | | 8-1/2 | 3-1/2 | 5 | 11-1/16 | | | 7-1/8 | | | | | |
| | 9 | | Prefix(+)09-(*)-(+)45-12 | | | | | | 6-1/2 | | | 11-7/16 | | | | | |
| | 12 | | Prefix(+)12-(*)-(+)45-12 | | | | | | 7-11/16 | | | 6-11/16 | | | | | |
| | 18 | | Prefix(+)18-(*)-(+)45-12 | | | | | | 12-1/8 | | | 8-11/16 | | | | | |
| | 24 | | Prefix(+)24-(*)-(+)45-12 | | | | | | 7-1/8 | | | 12-7/8 | | | | | |
| | 30 | | Prefix(+)30-(*)-(+)45-12 | | | | | | 9-11/16 | | | 7-1/2 | | | | | |
| | 36 | | Prefix(+)36-(*)-(+)45-12 | | | | | | 13-9/16 | | | 10-11/16 | | | | | |
| 24 | 42 | | Prefix(+)42-(*)-(+)45-12 | | | | | | 17 | | | 13-3/16 | | | | | |
| | 6 | | Prefix(+)06-(*)-(+)45-24 | | | | | | 9-15/16 | | | 19-1/2 | | | | | |
| | 9 | | Prefix(+)09-(*)-(+)45-24 | | | | | | 10-5/8 | | | 11-7/16 | | | | | |
| | 12 | | Prefix(+)12-(*)-(+)45-24 | | | | | | 19-15/16 | | | 11-3/16 | | | | | |
| | 18 | | Prefix(+)18-(*)-(+)45-24 | | | | | | 11-11/16 | | | 20-5/8 | | | | | |
| | 24 | | Prefix(+)24-(*)-(+)45-24 | | | | | | 12-3/16 | | | 21-3/8 | | | | | |
| | 30 | | Prefix(+)30-(*)-(+)45-24 | | | | | | 13-3/16 | | | 12-1/2 | | | | | |
| | 36 | | Prefix(+)36-(*)-(+)45-24 | | | | | | 22-1/16 | | | 14-3/16 | | | | | |
| 36 | 42 | | Prefix(+)42-(*)-(+)45-24 | | | | | | 25-7/16 | | | 10-9/16 | | | | | |
| | 6 | | Prefix(+)06-(*)-(+)45-36 | | | | | | 14-15/16 | | | 28 | | | | | |
| | 9 | | Prefix(+)09-(*)-(+)45-36 | | | | | | 14-3/16 | | | 16-7/16 | | | | | |
| | 12 | | Prefix(+)12-(*)-(+)45-36 | | | | | | 28-7/16 | | | 14-3/4 | | | | | |
| | 18 | | Prefix(+)18-(*)-(+)45-36 | | | | | | 16-5/8 | | | 29-1/8 | | | | | |
| | 24 | | Prefix(+)24-(*)-(+)45-36 | | | | | | 15-3/4 | | | 17-1/16 | | | | | |
| | 30 | | Prefix(+)30-(*)-(+)45-36 | | | | | | 29-13/16 | | | 16-3/4 | | | | | |
| | 36 | | Prefix(+)36-(*)-(+)45-36 | | | | | | 17-1/2 | | | 30-1/2 | | | | | |
| 48 | 42 | | Prefix(+)42-(*)-(+)45-36 | | | | | | 33-15/16 | | | 14-1/16 | | | | | |
| | 6 | | Prefix(+)06-(*)-(+)45-48 | | | | | | 19-7/8 | | | 36-1/2 | | | | | |
| | 9 | | Prefix(+)09-(*)-(+)45-48 | | | | | | 17-11/16 | | | 21-3/8 | | | | | |
| | 12 | | Prefix(+)12-(*)-(+)45-48 | | | | | | 36-7/8 | | | 18-1/4 | | | | | |
| | 18 | | Prefix(+)18-(*)-(+)45-48 | | | | | | 21-5/8 | | | 37-5/8 | | | | | |
| | 24 | | Prefix(+)24-(*)-(+)45-48 | | | | | | 19-1/4 | | | 22-7/16 | | | | | |
| | 30 | | Prefix(+)30-(*)-(+)45-48 | | | | | | 22-1/4 | | | 39 | | | | | |
| | 36 | | Prefix(+)36-(*)-(+)45-48 | | | | | | 21-1/4 | | | 22-7/8 | | | | | |

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

30° Vertical Bends

Part Numbering System

SHF 4 24 L VI30 12

```

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Width: 6, 9, 12, 18, 24, 30, 36, 42
Fitting type: L
Angle: 30°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

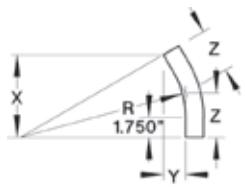
```

Selection Guide

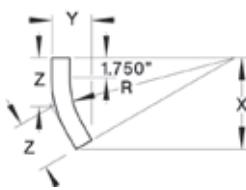
Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Angle: 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

30° Vertical BEND

Outside Bend



Inside Bend



| Nominal | | Cat. No. | (+) VO Side Rail | | | (+) VI Side Rail | | | | | | | | | 6 in. | | | 7 in. | | |
|---------|-------|----------------------------|-------------------|---------|--------|-------------------|---------|----------|---------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | | | 3-5/8 – 7 in. | | | 3-1/2 in. | | | 4 in. | | | 5 in. | | | 6 in. | | | 7 in. | | |
| Radius | Width | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z | |
| 12 | 6 | Prefix(t)-06-(*)-(+)30-12 | 6 | 1-5/8 | 3-3/16 | 7-13/16 | 5-1/4 | 4-3/16 | 8-1/16 | 15-13/16 | 4-5/16 | 8-9/16 | 6-13/16 | 4-5/8 | 9-1/16 | 7-13/16 | 4-7/8 | 9-9/16 | 8-13/16 | 5-1/8 |
| | 9 | Prefix(t)-09-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)30-12 | | | | | | | | | | | | | | | | | | |
| 24 | 6 | Prefix(t)-06-(*)-(+)30-24 | 12 | 3-3/16 | 6-7/16 | 13-13/16 | 6-13/16 | 7-3/8 | 14-1/16 | 7-3/8 | 7-9/16 | 14-9/16 | 8-3/8 | 7-13/16 | 15-1/16 | 9-3/8 | 8-1/16 | 15-9/16 | 10-3/8 | 8-3/8 |
| | 9 | Prefix(t)-09-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)30-24 | | | | | | | | | | | | | | | | | | |
| 36 | 6 | Prefix(t)-06-(*)-(+)30-36 | 18 | 4-13/16 | 9-5/8 | 19-13/16 | 8-7/16 | 10-5/8 | 20-1/16 | 9 | 10-3/4 | 20-1/16 | 10 | 11-1/16 | 21-1/16 | 11 | 11-5/16 | 21-9/16 | 12 | 11-9/16 |
| | 9 | Prefix(t)-09-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)30-36 | | | | | | | | | | | | | | | | | | |
| 48 | 6 | Prefix(t)-06-(*)-(+)30-48 | 24 | 6-7/16 | 12-7/8 | 25-13/16 | 10-1/16 | 13-13/16 | 26-1/16 | 10-5/8 | 14 | 26-9/16 | 11-5/8 | 14-1/4 | 27-1/16 | 12-5/8 | 14-1/2 | 27-9/16 | 13-5/8 | 14-13/16 |
| | 9 | Prefix(t)-09-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-(+)30-48 | | | | | | | | | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

Reducers

| Part Numbering System | | | | Selection Guide | |
|----------------------------|----|-------------------------|----------|---|----------|
| SHF-6-36-24-L-HLR | | | | Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel) Tray Widths W1: 42, 36, 30, 24, 18, 12, 9 Tray Widths W2: 36, 30, 24, 18, 12, 9, 6 Bottom Styles: L–Ladder, V–Ventilated, S–Solid Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in. | |
| Horizontal REDUCERS | | | | | |
| Offset Reducer - Right | | Reducer - Straight | | Offset Reducer - Left | |
| | | | | | |
| Widths | | Left Reducer | | Straight Reducer (Concentric) | |
| W1 | W2 | Cat. No. | Dim. X | Cat. No. | Dim. X |
| 42 | 36 | Prefix(t)-42-36-(*)-HLR | 15-716 | Prefix(t)-42-36-(*)-HRR | 13-3/4 |
| | 30 | Prefix(t)-42-30-(*)-HLR | 18-15/16 | Prefix(t)-42-30-(*)-HRR | 15-7/16 |
| | 24 | Prefix(t)-42-24-(*)-HLR | 22-3/8 | Prefix(t)-42-24-(*)-HRR | 17-3/16 |
| | 18 | Prefix(t)-42-18-(*)-HLR | 25-7/8 | Prefix(t)-42-18-(*)-HRR | 18-5/16 |
| | 12 | Prefix(t)-42-12-(*)-HLR | 29-5/16 | Prefix(t)-42-12-(*)-HRR | 20-5/8 |
| | 9 | Prefix(t)-42-09-(*)-HLR | 31-1/16 | Prefix(t)-42-09-(*)-HRR | 21-1/2 |
| | 6 | Prefix(t)-42-06-(*)-HLR | 32-3/4 | Prefix(t)-42-06-(*)-HRR | 22-3/8 |
| 36 | 30 | Prefix(t)-36-30-(*)-HLR | 15-7/16 | Prefix(t)-36-30-(*)-HRR | 13-3/4 |
| | 24 | Prefix(t)-36-24-(*)-HLR | 18-15/16 | Prefix(t)-36-24-(*)-HRR | 15-7/16 |
| | 18 | Prefix(t)-36-18-(*)-HLR | 22-3/8 | Prefix(t)-36-18-(*)-HRR | 17-3/8 |
| | 12 | Prefix(t)-36-12-(*)-HLR | 25-7/8 | Prefix(t)-36-12-(*)-HRR | 18-5/16 |
| | 9 | Prefix(t)-36-09-(*)-HLR | 27-9/16 | Prefix(t)-36-09-(*)-HRR | 19-13/16 |
| | 6 | Prefix(t)-36-06-(*)-HLR | 29-5/16 | Prefix(t)-36-06-(*)-HRR | 20-11/16 |
| 30 | 24 | Prefix(t)-30-24-(*)-HLR | 15-7/16 | Prefix(t)-30-24-(*)-HRR | 13-3/4 |
| | 18 | Prefix(t)-30-18-(*)-HLR | 18-15/16 | Prefix(t)-30-18-(*)-HRR | 15-7/16 |
| | 12 | Prefix(t)-30-12-(*)-HLR | 22-3/8 | Prefix(t)-30-12-(*)-HRR | 17-3/16 |
| | 9 | Prefix(t)-30-09-(*)-HLR | 24-1/8 | Prefix(t)-30-09-(*)-HRR | 18-1/16 |
| | 6 | Prefix(t)-30-06-(*)-HLR | 25-7/8 | Prefix(t)-30-06-(*)-HRR | 18-15/16 |
| 24 | 18 | Prefix(t)-24-18-(*)-HLR | 15-7/16 | Prefix(t)-24-18-(*)-HRR | 13-3/4 |
| | 12 | Prefix(t)-24-12-(*)-HLR | 18-15/16 | Prefix(t)-24-12-(*)-HRR | 15-7/16 |
| | 9 | Prefix(t)-24-09-(*)-HLR | 20-11/16 | Prefix(t)-24-09-(*)-HRR | 16-5/16 |
| | 6 | Prefix(t)-24-06-(*)-HLR | 22-3/8 | Prefix(t)-24-06-(*)-HRR | 17-3/16 |
| 18 | 12 | Prefix(t)-18-12-(*)-HLR | 15-7/16 | Prefix(t)-18-12-(*)-HRR | 13-3/4 |
| | 9 | Prefix(t)-18-09-(*)-HLR | 17-3/16 | Prefix(t)-18-09-(*)-HRR | 14-5/8 |
| | 6 | Prefix(t)-18-06-(*)-HLR | 18-15/16 | Prefix(t)-18-06-(*)-HRR | 15-7/16 |
| 12 | 9 | Prefix(t)-12-09-(*)-HLR | 13-3/4 | Prefix(t)-12-09-(*)-HRR | 12-7/8 |
| | 6 | Prefix(t)-12-06-(*)-HLR | 15-7/16 | Prefix(t)-12-06-(*)-HRR | 13-3/4 |
| 9 | 6 | Prefix(t)-09-06-(*)-HLR | 13-3/4 | Prefix(t)-09-06-(*)-HRR | 12-7/8 |
| | | | | | 13-3/4 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

45° Horizontal Wyes

Part Numbering System

SHF-6-36-L-HYL

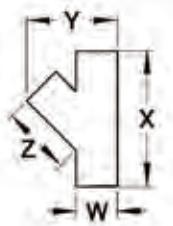
Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Selection Guide

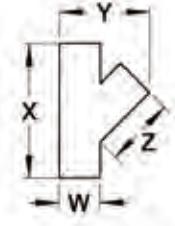
Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

45° Horizontal WYE – U-Style

Left Hand Wye



Right Hand Wye



| Width | Left Hand Wye Cat. No. | Right Hand Wye Cat. No. | Dimensions | | |
|-----------|---------------------------|----------------------------|------------|----------|---------|
| | | | X | Y | Z |
| 6 | Prefix(t)-06-(*)-HYL | Prefix(t)-06-(*)-HYR | 18-5/16 | 14-13/16 | 12-7/16 |
| 9 | Prefix(t)-09-(*)-HYL | Prefix(t)-09-(*)-HYR | 22-1/2 | 19-15/16 | 15-7/16 |
| 12 | Prefix(t)-12-(*)-HYL | Prefix(t)-12-(*)-HYR | 26-3/4 | 25 | 18-7/16 |
| 18 | Prefix(t)-18-(*)-HYL | Prefix(t)-18-(*)-HYR | 35-1/4 | 35-1/4 | 24-7/16 |
| 24 | Prefix(t)-24-(*)-HYL | Prefix(t)-24-(*)-HYR | 43-1/2 | 45-1/2 | 30-7/16 |
| 30 | Prefix(t)-30-(*)-HYL | Prefix(t)-30-(*)-HYR | 52-1/4 | 55-3/4 | 36-7/16 |
| 36 | Prefix(t)-36-(*)-HYL | Prefix(t)-36-(*)-HYR | 60-11/16 | 66 | 42-7/16 |
| 42 | Prefix(t)-42-(*)-HYL | Prefix(t)-42-(*)-HYR | 69-3/16 | 76-1/4 | 45-7/16 |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

Vertical Tees Up / Down

Part Numbering System

SHF 4 24 L VTD 12

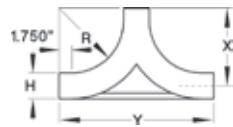
Prefix: SHF (Pregalv.), SSF (Hot-Dip), SHF (Stainless Steel)
Side rail height
Width
Fitting type
Nominal radius

Selection Guide

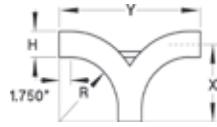
Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L–Ladder, V–Ventilated, S–Solid
Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Vertical Tee Up/Down

Outside Bend



Inside Bend



| Nominal | | Vertical Tee Up | Vertical Tee Down | Side Rail Height "H" | | | | | | | | | |
|---------|-------|------------------------|------------------------|----------------------|--------|--------|----------|--------|----------|--------|----------|--------|----------|
| | | | | 3-5/8 in. | | 4 in. | | 5 in. | | 6 in. | | 7 in. | |
| Radius | Width | Cat. No. | Cat. No. | X | Y | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | Prefix(t)-06-(*)-VTU12 | Prefix(t)-06-(*)-VTD12 | 13-13/16 | 27-5/8 | 14-1/8 | 28-3/16 | 14-5/8 | 29-3/16 | 15-1/8 | 30-3/16 | 15-5/8 | 31-3/16 |
| | 9 | Prefix(t)-09-(*)-VTU12 | Prefix(t)-09-(*)-VTD12 | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-VTU12 | Prefix(t)-12-(*)-VTD12 | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-VTU12 | Prefix(t)-18-(*)-VTD12 | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-VTU12 | Prefix(t)-24-(*)-VTD12 | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-VTU12 | Prefix(t)-30-(*)-VTD12 | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-VTU12 | Prefix(t)-36-(*)-VTD12 | | | | | | | | | | |
| 24 | 42 | Prefix(t)-42-(*)-VTU12 | Prefix(t)-42-(*)-VTD12 | 25-13/16 | 51-5/8 | 26-1/8 | 52-3/16 | 26-5/8 | 53-3/16 | 27-1/8 | 54-3/16 | 27-5/8 | 55-3/16 |
| | 6 | Prefix(t)-06-(*)-VTU24 | Prefix(t)-06-(*)-VTD24 | | | | | | | | | | |
| | 9 | Prefix(t)-09-(*)-VTU24 | Prefix(t)-09-(*)-VTD24 | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-VTU24 | Prefix(t)-12-(*)-VTD24 | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-VTU24 | Prefix(t)-18-(*)-VTD24 | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-VTU24 | Prefix(t)-24-(*)-VTD24 | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-VTU24 | Prefix(t)-30-(*)-VTD24 | | | | | | | | | | |
| 36 | 36 | Prefix(t)-36-(*)-VTU24 | Prefix(t)-36-(*)-VTD24 | 37-13/16 | 75-5/8 | 38-1/8 | 76-3/16 | 38-5/8 | 77-3/16 | 39-1/8 | 78-3/16 | 39-5/8 | 79-3/16 |
| | 42 | Prefix(t)-42-(*)-VTU24 | Prefix(t)-42-(*)-VTD24 | | | | | | | | | | |
| | 6 | Prefix(t)-06-(*)-VTU36 | Prefix(t)-06-(*)-VTD36 | | | | | | | | | | |
| | 9 | Prefix(t)-09-(*)-VTU36 | Prefix(t)-09-(*)-VTD36 | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-VTU36 | Prefix(t)-12-(*)-VTD36 | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-VTU36 | Prefix(t)-18-(*)-VTD36 | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-VTU36 | Prefix(t)-24-(*)-VTD36 | | | | | | | | | | |
| 48 | 30 | Prefix(t)-30-(*)-VTU36 | Prefix(t)-30-(*)-VTD36 | 49-13/16 | 99-5/8 | 50-1/8 | 100-3/16 | 50-5/8 | 101-3/16 | 51-1/8 | 102-3/16 | 51-5/8 | 103-3/16 |
| | 36 | Prefix(t)-36-(*)-VTU36 | Prefix(t)-36-(*)-VTD36 | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-VTU36 | Prefix(t)-42-(*)-VTD36 | | | | | | | | | | |
| | 6 | Prefix(t)-06-(*)-VTU48 | Prefix(t)-06-(*)-VTD48 | | | | | | | | | | |
| | 9 | Prefix(t)-09-(*)-VTU48 | Prefix(t)-09-(*)-VTD48 | | | | | | | | | | |
| | 12 | Prefix(t)-12-(*)-VTU48 | Prefix(t)-12-(*)-VTD48 | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-VTU48 | Prefix(t)-18-(*)-VTD48 | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-VTU48 | Prefix(t)-24-(*)-VTD48 | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-VTU48 | Prefix(t)-30-(*)-VTD48 | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-VTU48 | Prefix(t)-36-(*)-VTD48 | | | | | | | | | | |
| | 42 | Prefix(t)-42-(*)-VTU48 | Prefix(t)-42-(*)-VTD48 | | | | | | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

Cable Support

Part Numbering System

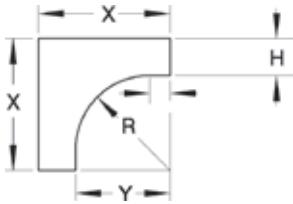
SHF 4 24 L CS 12

| | | | |
|-------------------------|--------------|--------------|----------------|
| Prefix SPF, SHF, SSF | Width | Fitting type | Nominal radius |
| Side rail height | Bottom style | | |

Selection Guide

Prefix: SPF (Pregalv.), SHF (Hot-Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L–Ladder, V–Ventilated, S–Solid
 Side Rail Heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal EXPANDING CROSS



| | | | Side Rail Height "H" | | | | |
|-----------|-------|-----------------------|----------------------|---------|---------|---------|---------|
| Radius | Width | Cat. No. | 3-5/8 in. | 4 in. | 5 in. | 6 in. | 7 in. |
| | | | X | | | | |
| 12 | 6 | Prefix(t)-06-(*)-CS12 | 15-5/8 | 16-3/16 | 17-3/16 | 18-3/16 | 19-3/16 |
| | 9 | Prefix(t)-09-(*)-CS12 | | | | | |
| | 12 | Prefix(t)-12-(*)-CS12 | | | | | |
| | 18 | Prefix(t)-18-(*)-CS12 | | | | | |
| | 24 | Prefix(t)-24-(*)-CS12 | | | | | |
| | 30 | Prefix(t)-30-(*)-CS12 | | | | | |
| | 36 | Prefix(t)-36-(*)-CS12 | | | | | |
| | 42 | Prefix(t)-42-(*)-CS12 | | | | | |
| 24 | 6 | Prefix(t)-06-(*)-CS24 | 27-5/8 | 28-3/16 | 29-3/16 | 30-3/16 | 31-3/16 |
| | 9 | Prefix(t)-09-(*)-CS24 | | | | | |
| | 12 | Prefix(t)-12-(*)-CS24 | | | | | |
| | 18 | Prefix(t)-18-(*)-CS24 | | | | | |
| | 24 | Prefix(t)-24-(*)-CS24 | | | | | |
| | 30 | Prefix(t)-30-(*)-CS24 | | | | | |
| | 36 | Prefix(t)-36-(*)-CS24 | | | | | |
| | 42 | Prefix(t)-42-(*)-CS24 | | | | | |
| 36 | 6 | Prefix(t)-06-(*)-CS36 | 39-5/8 | 40-3/16 | 41-3/16 | 42-3/16 | 43-3/16 |
| | 9 | Prefix(t)-09-(*)-CS36 | | | | | |
| | 12 | Prefix(t)-12-(*)-CS36 | | | | | |
| | 18 | Prefix(t)-18-(*)-CS36 | | | | | |
| | 24 | Prefix(t)-24-(*)-CS36 | | | | | |
| | 30 | Prefix(t)-30-(*)-CS36 | | | | | |
| | 36 | Prefix(t)-36-(*)-CS36 | | | | | |
| | 42 | Prefix(t)-42-(*)-CS36 | | | | | |
| 48 | 6 | Prefix(t)-06-(*)-CS48 | 51-5/8 | 52-3/16 | 53-3/16 | 54-3/16 | 55-3/16 |
| | 9 | Prefix(t)-09-(*)-CS48 | | | | | |
| | 12 | Prefix(t)-12-(*)-CS48 | | | | | |
| | 18 | Prefix(t)-18-(*)-CS48 | | | | | |
| | 24 | Prefix(t)-24-(*)-CS48 | | | | | |
| | 30 | Prefix(t)-30-(*)-CS48 | | | | | |
| | 36 | Prefix(t)-36-(*)-CS48 | | | | | |
| | 42 | Prefix(t)-42-(*)-CS48 | | | | | |

(†) Insert side rail height. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

Fittings

Helix® Cable Tray Fitting

The Helix® cable tray fitting. Efficiency is in its DNA.



Go from horizontal to vertical, maximum cable protection, minimum space.

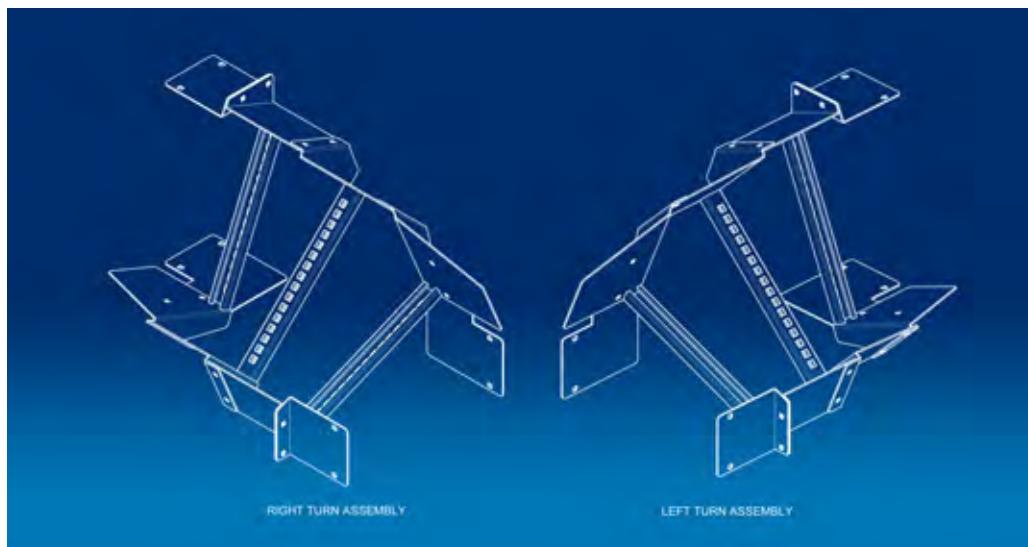
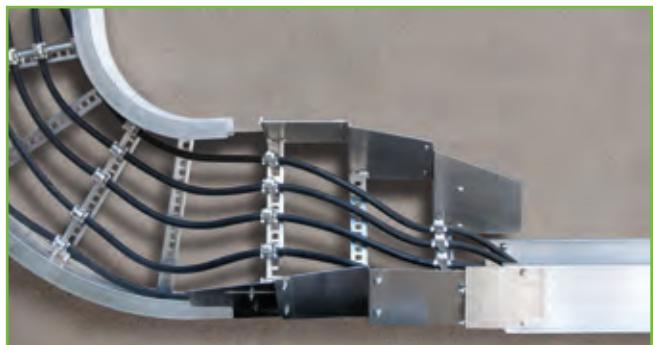
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix® fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs



Fittings

Helix® Cable Tray Fitting



| Cat. No. | Material | Side Rail (in.) | Width (in.) | Direction | |
|------------|---------------------|-----------------|-------------|------------|--|
| SPF612LHVR | Pregalvanized steel | 6 | 12 | Right turn | |
| SPF612LHVL | | | 12 | Left turn | |
| SPF624LHVR | | | 24 | Right turn | |
| SPF624LHVL | | | 24 | Left turn | |
| SSF612LHVR | Stainless steel | | 12 | Right turn | |
| SSF612LHVL | | | 12 | Left turn | |
| SSF624LHVR | | | 24 | Right turn | |
| SSF624LHVL | | | 24 | Left turn | |

Supports should be positioned within 24" (610 mm) of each Helix® fitting extremity.

Covers

Tray Covers

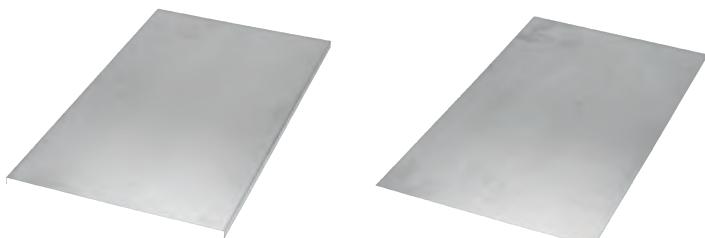
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a peaked flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have 1/2 in. flange.

Cover mounting hardware must be ordered separately.



Solid Flanged

Solid Non-Flanged

Ventilated Flanged Covers

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



Ventilated
Flanged

Peaked Flanged Covers

Peaked covers offer mechanical protection plus prevent accumulation of liquid on the cover. Peaked covers have 15° rise at the peak.

Cover mounting hardware must be ordered separately.



Peaked
Flanged

Covers

Straight Cover Number Selection

(SPW 12)SNC-3

| Material Prefix | Width | Type | Length |
|------------------------------|---------------|--------------------------------|---------------|
| SPW • Pregalvanized | 06 • (6 in.) | SNC • Solid non-flanged cover | 72 • (72 in.) |
| SHW • Hot-dipped galvanized* | 09 • (9 in.) | SFC • Solid flanged cover | 3 • (3 m) |
| SSW • Stainless steel 316 | 12 • (12 in.) | VFC • Ventilated flanged cover | |
| | 18 • (18 in.) | PFC • Peaked flanged cover ** | |
| | 24 • (24 in.) | | |
| | 30 • (30 in.) | | |
| | 36 • (36 in.) | | |
| | 42 • (42 in.) | | |

* Hot-Dipped Covers only available in 72 in. and 1500 mm lengths.

Fitting Cover Number Selection

(SPW 12)SNC HB 9024

| Material Prefix | Width | Cover Type | Fitting Type | Degree* | Nominal Radius |
|-----------------------------|---------------|--------------------------------|----------------------------|------------|----------------|
| SPW • Pregalvanized | 06 • (6 in.) | SNC • Solid non-flanged cover | HB • Horizontal bend | 30 • (30°) | 12 • (12 in.) |
| SHW • Hot-dipped galvanized | 09 • (9 in.) | SFC • Solid flanged cover | VI • Vertical inside bend | 45 • (45°) | 24 • (24 in.) |
| SSW • Stainless steel 316 | 12 • (12 in.) | VFC • Ventilated flanged cover | HT • Horizontal tee | 60 • (60°) | 36 • (36 in.) |
| | 18 • (18 in.) | | HX • Horizontal cross | 90 • (90°) | 48 • (48 in.) |
| | 24 • (24 in.) | | VTU • Vertical tee up | | |
| | 30 • (30 in.) | | HYR • Horizontal wye right | | |
| | 36 • (36 in.) | | HYL • Horizontal wye left | | |
| | 42 • (42 in.) | | | | |

* Required for HB & VI only.

Covers

Fitting Cover Number Selection (cont'd)

| (SPW1812)SNCRT12 | | | | | |
|---|--|--|--|---|--|
| Material Prefix | Width 1 | Width 2 | Cover Type | Fitting Type | Radius* |
| SPW • Pregalvanized SHW • Hot-dipped galvanized SSW • Stainless steel 316 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover | RT • Horizontal reduce tee ET • Horizontal expand tee EX • Horizontal expand tee & reduce cross HSR • Horizontal straight reducer HLR • Horizontal left reducer HRR • Horizontal right reducer | 12 •(12 in.) 24 •(24 in.) 36 •(36 in.) 48 •(48 in.) |

* Radius not required for HSR, HLR, HRR.

Fitting Cover Number Selection

| (SPW412)SNCVO9024 | | | | | | |
|---|---|--|--|---|--|--|
| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Nominal Radius |
| SPW • Pregalvanized SHW • Hot-dipped galvanized SSW • Stainless steel 316 | 3 • (3-5/8 in.) 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | SNC • Solid non-flanged cover SFC • Solid flanged cover VFC • Ventilated flanged cover | VO • Vertical outside bend VTD • Vertical tee down CS • Cable support fitting | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

* Required for VO only.

Covers

Peaked Covers

Steel Number Selection

SHW-24-PFC-HB-90-24

| Material Prefix | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|--|--|---|---|--|--|
| SHW • Hot-dipped galvanized SSW • Stainless steel 316 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked vented flanged cover | HB • Horizontal bend VI • Vertical inside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: Pregalvanized not available.

Steel Number Selection

SSW-6-24-PFC-VO-90-24

| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree | Nominal Radius |
|--|--|--|---|----------------------------|--|--|
| SHW • Hot-dipped galvanized SSW • Stainless steel 316 | 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.) | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked vented flanged cover | VO • Vertical outside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: Pregalvanized not available.

Steel Number Selection

SHW-24-PFC-HT-24

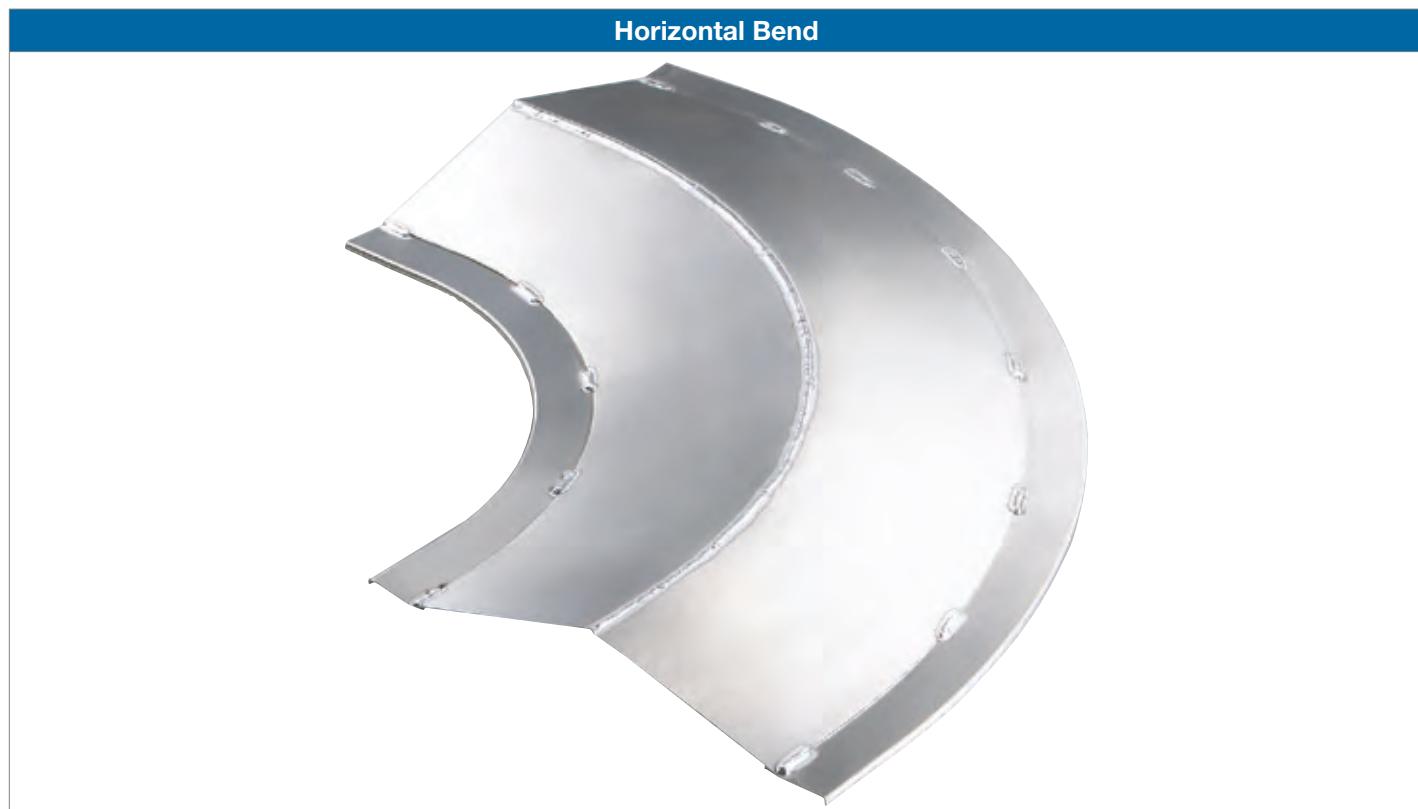
| Material Prefix | Width | Cover Type | Fitting Type | Nominal Radius |
|--|--|---|---------------------|--|
| SHW • Hot-dipped galvanized SSW • Stainless steel 316 | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked vented flanged cover | HT • Horizontal tee | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Note: Pregalvanized not available.

Covers

Peaked Covers

Horizontal Bend / Vertical Inside Bend



Steel Number Selection

| SHW-12-PFC-HB-90-24 | | | | | | |
|----------------------------|--|---|---|--|--|--|
| Material Prefix | Width | Cover Type | Fitting Type | Degree | Radius | |
| SHW SSW | 06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PFC • Peaked flanged cover PVC • Peaked ventilated flanged cover | HB • Horizontal bend VI • Vertical inside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) | |

Note: Pregalvanized not available.

Covers

Peaked Covers

Vertical Outside Bend



Steel Number Selection

SHW-4-12-PFC-VO-90-24

| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree | Radius |
|-----------------|------------------|---------------|---------------------------------------|----------------------------|------------|---------------|
| SHW | 4 • (4 in.) | 06 • (6 in.) | PFC • Peaked flanged cover | VO • Vertical outside bend | 30 • (30°) | 12 • (12 in.) |
| SSW | 5 • (5 in.) | 09 • (9 in.) | PVC • Peaked ventilated flanged cover | | 45 • (45°) | 24 • (24 in.) |
| | 6 • (6 in.) | 12 • (12 in.) | | | 60 • (60°) | 36 • (36 in.) |
| | 7 • (7 in.) | 18 • (18 in.) | | | 90 • (90°) | 48 • (48 in.) |
| | | 24 • (24 in.) | | | | |
| | | 30 • (30 in.) | | | | |
| | | 36 • (36 in.) | | | | |
| | | 42 • (42 in.) | | | | |

Covers

Peaked Covers

Horizontal Tee



Steel Number Selection

SHW-12-PFC-HT-24

| Material Prefix | Width | Cover Type | Fitting Type | Radius |
|-----------------|--|---------------------------------------|---------------------|---|
| SHW | 06 • (6 in.) | PFC • Peaked flanged cover | HT • Horizontal tee | 12 • (12 in.) |
| SSW | 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.) | PVC • Peaked ventilated flanged cover | | 24 • (24 in.) 36 • (36 in.) 48 • (48 in.) |

Covers

Accessories For Covers

| Quantity of Standard Cover Clamps Required | |
|--|--------|
| Straight section (6 ft.) | 4 pcs. |
| Straight section (12 ft./ 3 m) | 6 pcs. |
| Horizontal and vertical bends | 4 pcs. |
| Tees | 6 pcs. |
| Crosses | 8 pcs. |

Note: When using the Heavy-Duty Cover Clamp, only half the quantity of pieces are required.

Raised Cover Clamp



| Cat. No. | Cover Offset (in.)* | Material Prefix |
|-----------|---------------------|-----------------|
| SPW(*)RCC | 1 | SPW SSW |
| | 2 | |

(*) Insert cover offset.

Designed to raise cover above tray for added ventilation.

Peaked End Cap



| Cat. No. | Width (in.) | Material Prefix |
|-------------------------------------|-------------|-------------------|
| SPW(*)PEC SHW(*)PEC SSW(*)PEC | 06 | SPW SHW SSW |
| | 09 | |
| | 12 | |
| | 18 | |
| | 24 | |
| | 30 | |
| | 36 | |
| | 42 | |

(*) Insert width

Used for transition between peaked covers to straight covers.

Covers

Accessories For Covers

Cover Clamp



Rigid indoor cover clamp for flat and flanged covers.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-----------------|------------------------|
| (Prefix)-3-SCC | | 3 |
| (Prefix)-4-SCC | | 4 |
| (Prefix)-5-SCC | | 5 |
| (Prefix)-6-SCC | | 6 |
| (Prefix)-7-SCC | | 7 |
| SHW | | |
| SPW | | |
| SSW | | |

Heavy-Duty Cover Clamp



Wrap around design offers added protection for rugged applications and outdoor conditions.

Hardware included.

| Cat. No. | Material Prefix | Tray Width (in.) | Side Rail Height (in.) |
|--------------------|-----------------|------------------|------------------------|
| (Prefix)-3-(*)-HCC | | 06 | |
| (Prefix)-4-(*)-HCC | | 09 | |
| (Prefix)-5-(*)-HCC | | 12 | 3 |
| (Prefix)-6-(*)-HCC | | 18 | 4 |
| (Prefix)-7-(*)-HCC | | 24 | 5 |
| SPW | | 30 | 6 |
| SHW | | 36 | 7 |
| SSW | | 42 | |

(*) Insert tray width

Heavy-Duty Peaked Cover Clamp



Wrap around design formed to fit peaked cover for outdoor applications.

Hardware included.

| Cat. No. | Material Prefix | Tray Width (in.) | Side Rail Height (in.) |
|--------------------|-----------------|------------------|------------------------|
| (Prefix)-3-(*)-HPC | | 06 | |
| (Prefix)-4-(*)-HPC | | 09 | |
| (Prefix)-5-(*)-HPC | | 12 | 3 |
| (Prefix)-6-(*)-HPC | | 18 | 4 |
| (Prefix)-7-(*)-HPC | | 24 | 5 |
| SPW | | 30 | 6 |
| SHW | | 36 | 7 |
| SSW | | 42 | |

(*) Insert tray width

Cover Joint Strip



Strip used for joining covers end to end.

| Cat. No. | Material | Tray Width (in.) |
|-------------|----------|------------------|
| ABW-(*)-PCS | Plastic | 06 |
| | | 09 |
| | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |
| | | 42 |

(*) Insert tray width

Splice Plates

Splice Plate



Packaged in pairs with zinc plated hardware. Kit contents 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

Provided as standard with each straight and/or fitting.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|-----------------|------------------|
| (Prefix)-3-SSP | SPW | 4 |
| (Prefix)-4-SSP | SHW | 5 |
| (Prefix)-5-SSP | SSW | 6 |
| (Prefix)-6-SSP | | 7 |
| (Prefix)-7-SSP | | |

Expansion Splice Plate



Allows for a 1 in. expansion or contraction of tray system.

Packaged in pairs with hardware. Kit contents 8 bolts, 8 stop nuts, 4 serrated flange nuts 3/8 in. diameter.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|-----------------|------------------|
| (Prefix)-3-ESP | SPW | 3 |
| (Prefix)-4-ESP | SHW | 4 |
| (Prefix)-5-ESP | SSW | 5 |
| (Prefix)-6-ESP | | 6 |
| (Prefix)-7-ESP | | 7 |

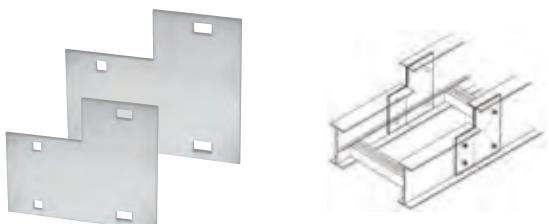
Transition Splice Plate



| Cat. No. | Material | Description | Side Rail Height |
|-------------------|----------------------|---|------------------|
| XNM-XP400-(*)-SS6 | Polyester/Fiberglass | Designed to make the transition from aluminum to steel cable tray Works for all 6 in. side rails. | 6 |

Each pair of plate:
8 x carriage bolt (3/8 x 1 in.) SS316
8 x 3/8 in. serrated flange nut SS316

Step Down Splice Plate



| Cat. No. | Material Prefix | Side Rail Width (in.) |
|-----------------------|-----------------|-----------------------|
| (Prefix)-(*)-(**)-SDS | SPW | 4 |
| | SHW | 5 |
| | SSW | 6 |
| | | 7 |

(*) Insert side rail height 1.
(**) Insert side rail height 2.
Note: Side rail height 1 is greater than side rail height 2.

Connects side rails of different heights. Hardware included.
Kit contents 8 bolts, 8 nuts, 8 washers 3/8 in. diameter.

Horizontal Adjustable Plate



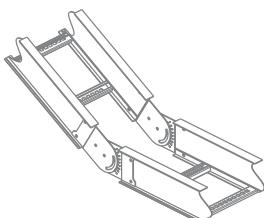
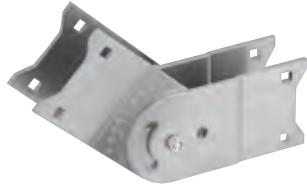
| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|-------------------|-----------------|------------------------|------------------|
| (Prefix)-(*)06HBP | | 3 | 06 |
| (Prefix)-(*)09HBP | | 4 | 09 |
| (Prefix)-(*)12HBP | | 5 | 12 |
| (Prefix)-(*)18HBP | SPW | 6 | 18 |
| (Prefix)-(*)24HBP | SHW | 7 | 24 |
| (Prefix)-(*)30HBP | SSW | | 30 |
| (Prefix)-(*)36HBP | | | 36 |
| (Prefix)-(*)42HBP | | | 42 |

(*) Insert side rail height.

Furnished in pairs with hardware.

Splice Plates

Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation.

Packaged in pairs with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-----------------|------------------------|
| (Prefix)-3-VSP | SPW | 3 |
| (Prefix)-4-VSP | SHW | 4 |
| (Prefix)-5-VSP | SSW | 5 |
| (Prefix)-6-VSP | | 6 |
| (Prefix)-7-VSP | | 7 |

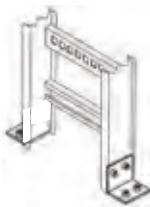
Branch Pivot Connectors



Allows cables to run from one tray level to another.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-----------------|------------------------|
| (Prefix)-3-BPC | SPW | 3 |
| (Prefix)-4-BPC | SHW | 4 |
| (Prefix)-5-BPC | SSW | 5 |
| (Prefix)-6-BPC | | 6 |
| (Prefix)-7-BPC | | 7 |

Box to Tray Plates

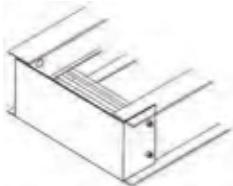


Designed to secure tray to electrical panels or boxes, walls or end supports.
Packaged in pairs with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-----------------|------------------------|
| (Prefix)-3-BSP | SPW | 3 |
| (Prefix)-4-BSP | SHW | 4 |
| (Prefix)-5-BSP | SSW | 5 |
| (Prefix)-6-BSP | | 6 |
| (Prefix)-7-BSP | | 7 |

Splice Plates

Closure End Plate

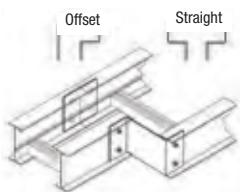


Provides closure for any tray end. Hardware included.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|--------------------|-----------------|------------------------|
| (Prefix)-3-(*)-CEP | SPW | 3 |
| (Prefix)-4-(*)-CEP | SHW | 4 |
| (Prefix)-5-(*)-CEP | SSW | 5 |
| (Prefix)-6-(*)-CEP | | 6 |
| (Prefix)-7-(*)-CEP | | 7 |

(*) Insert tray width

Reducing Splice Plate



Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction. One per package with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|-------------------|-----------------|------------------------|
| (Prefix)-3-(*)RSP | SPW | 3 |
| (Prefix)-4-(*)RSP | SHW | 4 |
| (Prefix)-5-(*)RSP | SSW | 5 |
| (Prefix)-6-(*)RSP | | 6 |
| (Prefix)-7-(*)RSP | | 7 |

*Note: For offset reduction: Insert width to be reduced.

For straight reduction: Insert 1/2 width to be reduced (2 required).

Example: SPW-503-RSP = 3 in. offset reducer

Super-Duty Splice Plate™

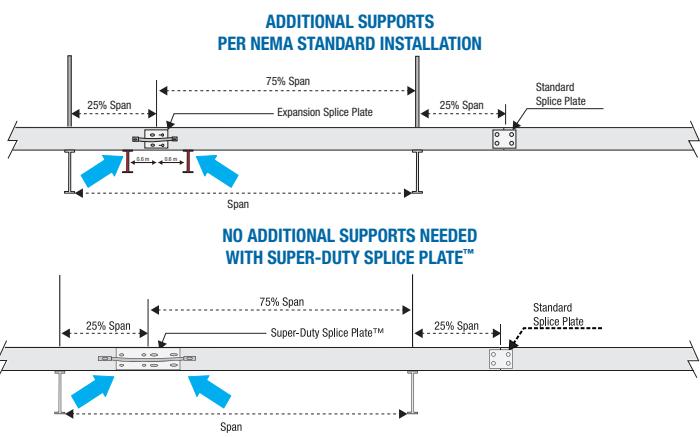


| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-----------------|------------------------|
| (Prefix)-4-SDP | SPW | 4 |
| (Prefix)-5-SDP | SHW | 5 |
| (Prefix)-6-SDP | SSW | 6 |
| (Prefix)-7-SDP | | 7 |

Comes complete with 16 bolts, 8 stop nuts, 8 nuts, 8 nylon, washers 3/8 diameter required, for either expansion or mid-span splicing.

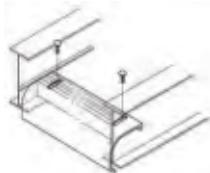
High-strength design enables reduction of supports recommended for NEMA standard installations at the expansion joint, significantly reducing material and labour costs.

Unique reinforced design eliminates the need to drill and install additional hardware on the flange, saving installation time.



Cable Protection

Drop-Out



Designed to provide a smooth radius surface at any position on the tray or trough bottom. Drop outs are easily attached using hardware provided. Standard radius = 4 in.

| Cat. No. | Material Prefix | Tray Width (in.) |
|----------|-----------------|------------------|
| | | 06 |
| | | 09 |
| | | 12 |
| | | 18 |
| | | 24 |
| | | 30 |
| | | 36 |
| | | 42 |

(*) Insert tray width
+ DOS = is for solid tray.

Wall Penetration Sleeve



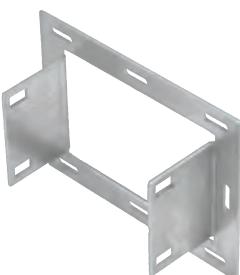
Sold with cover

Designed to pass through walls and fire walls. Hardware included.
Note: not fire rated. Fire stop not included.

| Cat. No. | Material Prefix | Tray Width (in.) | Side Rail Height (in.) |
|----------|-----------------|------------------|------------------------|
| | | 06 | 3 |
| | | 09 | 4 |
| | | 12 | 5 |
| | | 18 | 6 |
| | | 24 | 7 |
| | | 30 | |
| | | 36 | |
| | | 42 | |

(*) Insert side rail height.
(**) Insert tray width.

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels.

Hardware included.

| Cat. No. | Material Prefix | Tray Width (in.) | Side Rail Height (in.) |
|----------|-----------------|------------------|------------------------|
| | | 06 | 3 |
| | | 09 | 4 |
| | | 12 | 5 |
| | | 18 | 6 |
| | | 24 | 7 |
| | | 30 | |
| | | 36 | |
| | | 42 | |

(*) Insert side rail height.
(**) Insert tray width.

Nylon Expansion Pad



Allows for thermal expansion and contraction of cable trays over supports.

| Cat. No. | Material |
|----------|---------------|
| ABW-NSP | Natural nylon |

Barrier Strips

Barrier Strips



Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or barrier strip clamps (sold separately).

72 in. Barriers are flexible for use with horizontal fittings.

NOTE: Barriers provided with self drilling-tapping screw
CAT. NO. SPW10SCR
72 in. length: 3 screw
3 m length: 5 screw
144 in. length: 6 screw

| Cat. No. | Material Prefix | Designed for Side Rail Height (in.) | Length |
|-------------------|-------------------|-------------------------------------|----------------|
| (Prefix)-3-SBH-72 | SPW SHW SSW | 3 | 72 in. |
| (Prefix)-4-SBH-72 | | 4 | |
| (Prefix)-5-SBH-72 | | 5 | |
| (Prefix)-6-SBH-72 | | 6 | |
| (Prefix)-7-SBH-72 | | 7 | |
| | | | |
| (Prefix)-3-SB-(*) | SPW SHW SSW | 3 | 144 in. 3 m |
| (Prefix)-4-SB-(*) | | 4 | |
| (Prefix)-5-SB-(*) | | 5 | |
| (Prefix)-6-SB-(*) | | 6 | |
| (Prefix)-7-SB-(*) | | 7 | |
| | | | |

Note: SHW barriers are only available in 72 in. or 1500 mm. (*) Insert length.

Inside/Outside Vertical Bend Barriers



Preformed to fit all standard steel vertical bends.

Provided with hardware.

| Inside Bend Cat. No. | Outside Bend Cat. No. | Material Prefix | Designed for Side Rail Height (in.) |
|------------------------|------------------------|-------------------|-------------------------------------|
| (Prefix)-3-VIB-(*)-(+) | (Prefix)-3-VOB-(*)-(+) | SPW SHW SSW | 3 |
| (Prefix)-4-VIB-(*)-(+) | (Prefix)-4-VOB-(*)-(+) | | 4 |
| (Prefix)-5-VIB-(*)-(+) | (Prefix)-5-VOB-(*)-(+) | | 5 |
| (Prefix)-6-VIB-(*)-(+) | (Prefix)-6-VOB-(*)-(+) | | 6 |
| (Prefix)-7-VIB-(*)-(+) | (Prefix)-7-VOB-(*)-(+) | | 7 |
| | | | |

(*) Insert bend degree (+) Insert bend radius.

Barrier Strip Clamp



Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms. Complete mounting hardware supplied.

| Cat. No. | Material Prefix |
|--------------|-----------------|
| (Prefix)-BSC | SPW SSW |

Barrier Strip Splice



| Cat. No. | Material Prefix |
|----------|-----------------|
| ABW-BSS | SPW SSW |

Alignment splice for joining connecting barrier strips.

Clamps and Hardware

Cable Tray Combo Clamps



Clamp position on cable tray



Guide position on cable tray

| Cat. No. | Material | Hardware size (in.) |
|----------------|--------------------------|---------------------|
| SPWCHGC | Pregalvanized steel | 3/8 |
| SHWCHGC | Hot dip galvanized steel | |
| SSWCHGC | 316 Stainless | |

Order 3/8 in. hardware separately.

| Cat. No. | Material | Hardware size (in.) |
|--------------------|--------------------------|---------------------|
| SPWCHGC-HDW | Pregalvanized steel | 3/8 |
| SHWCHGC-HDW | Hot dip galvanized steel | |
| SSWCHGC-HDW | 316 Stainless | |

* Hardware supplied: 1 bolt and 1 springless strut nut 3/8 diameter.

Steel Tray Hardware



Square shoulder self-positioning carriage bolt.

| Cat. No. | Material | Description |
|-----------------------|-------------------|---|
| SPW-1/4-CB | Zinc plated steel | 1/4 in. carriage bolt |
| SPW-3/8-CB | | 3/8 in. carriage bolt |
| SPW-1/4-HN | | 1/4 in. serrated flange hex. nut |
| SPW-3/8-HN | | 3/8 in. hex. nut |
| SPW3/8HWK* | | Hardware kit |
| SPW-3/8HXHWK** | | Hardware kit 3/8 in. for large radius crosses |
| SSW-3/8-CB | 316 Stainless | 3/8 in. carriage bolt |
| SSW-3/8-HN | | 3/8 in. hex. nut |
| SSW38HWK* | | 316 Stainless steel hardware kit |
| SSW-3/8HXHWK** | | Hardware kit 3/8 in. for large radius crosses |

* Contains 8 nuts and 8 bolts.

**Contains 6 bolts, 6 nuts and 6 washers.

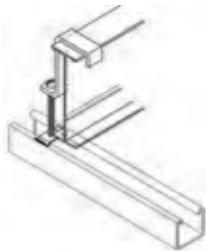
Clamps and Hardware

Self-drilling – tapping screw



| Cat. No. | Material | Description |
|------------|-------------------|-------------------------------|
| SPW-10-SCR | Zinc plated steel | Self-drilling – tapping screw |
| SSW-10-SCR | Stainless steel | Self-drilling – tapping screw |

Hold Down Clamp



| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|-------------------|------------------------|
| (Prefix)-3-HDC | SPW SHW SSW | 3 |
| (Prefix)-4-HDC | | 4 |
| (Prefix)-5-HDC | | 5 |
| (Prefix)-6-HDC | | 6 |
| (Prefix)-7-HDC | | 7 |

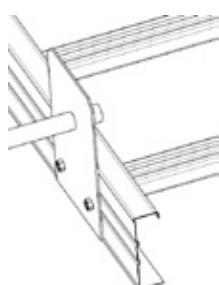
Note: Hardware included. Kit contains 1 bolt and 1 channel nut.

Hold Down Clamp



| Cat. No. | Type | Material | Design Load |
|----------|--------|-----------------------|---------------|
| SPWHDCS | Single | Pregalvanized | 800 lb./pair |
| SHWHDCS | Single | Hot-dipped galvanized | |
| SSWHDCS | Single | Stainless steel 316 | |
| SPWHDCD | Double | Pregalvanized | 1500 lb./pair |
| SHWHDCD | Double | Hot-dipped galvanized | |
| SSWHDCD | Double | Stainless steel 316 | |

Conduit Clamp



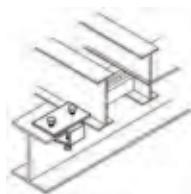
| Cat. No. | Type | Material |
|----------|-------|---------------|
| PU100CC | 1 | Pregalvanized |
| PU125CC | 1-1/4 | |
| PU150CC | 1-1/2 | |
| PU200CC | 2 | |
| PU250CC | 2-1/2 | |
| PU300CC | 3 | |
| PU400CC | 4 | |

Clamps and Hardware

Cable Tray Guide

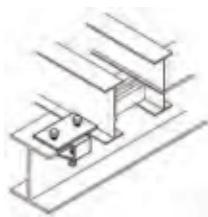


Expansion guide for single or double runs of cable tray. No need to field drill channel or I-beam.



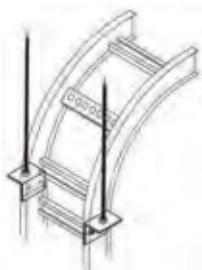
| Cat. No. | Material |
|----------|-----------------------------|
| SPW-CTG | Zinc plated steel |
| SHW-CTG | Hot-dipped galvanized steel |
| SSW-CTG | Stainless steel |

Cable Tray Clamp



| Cat. No. | Material |
|----------|-----------------------------|
| SPW-CTC | Zinc plated steel |
| SHW-CTC | Hot-dipped galvanized steel |
| SSW-CTC | Stainless steel |

Vertical Tray Hanger



| Cat. No. | Material Prefix | Side Rail Height (in.) |
|------------------|-----------------|------------------------|
| (Prefix)-(*)-VTH | SPW | 3 |
| | SHW | 4 |
| | SSW | 5 |
| | | 6 |
| | | 7 |

(*) Insert side rail height

Selection Guide

.....

Ventilated Trough

- Formed from a pre-punched sheet to produce a One-Piece Ventilated Trough.
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316.
- Fittings are also available to complete this cable tray system.



Solid Trough

- Fabricated from one sheet to form a continuous One-Piece tray design.
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316.
- Fittings are also available to complete this cable tray system.



Note: 1 pair of splice plates complete with hardware supplied with each straight length.

Selection Guide

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8.

Methods

1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA load/span designations page A16, and sizing cable tray page A23.
3. Select nominal depth and width of tray based on cable loading. See Sizing cable tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray.

Straight Section Number Selection

| (ALU13) 12V-3 | | | | | |
|---|-----------------------------|---|---|---|------------------|
| Material Prefix | Series | Side Rail Height | Width | Bottom Type | Length |
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • Stainless steel 316 | U1 • Unit or one-piece tray | 2 • (2 in.) 3 • (3-5/8 in.) 6 • (6 in.) | 06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) Welded flat rung 30 • (30 in.) 36 • (36 in.) | V • Ventilated trough S • Solid trough | 3 • (3 meters) * |

* Standard straight length is 10 feet nominal = actually 3 m (3 m = 9.842 ft.)

Straight Lengths

2 in. Straight Sections / AL, SP, SH, SS

Solid and Vented

Straight Section Number Selection

(ALU12) 12V-3

| Material Prefix | Series Prefix | Side Rail Height | Width | Bottom Type | Length |
|---|-----------------------------|------------------|---|---|------------------|
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • Stainless Steel 316 | U1 • Unit or One-Piece Tray | 2 • (2 in.) | 06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) Welded flat rung 30 • (30 in.) 36 • (36 in.) | V • Ventilated trough S • Solid trough | 3 • (3 meters) * |

* Standard straight length is 10 feet nominal = actually 3 m (3 m = 9,842 ft.)

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For fittings consult pages A50 to A91.

| Series | Support Span (Feet) | | | |
|--------------|---------------------|-------|-------|-------|
| | 6 | 8 | 10 | |
| ALU12 | Load (lb./ft.) | 69 | 39 | 25 |
| | Deflection (in.) | 0.382 | 0.730 | 1.000 |
| | Deflection Factor | 0.006 | 0.019 | 0.040 |
| SPU12 | Load (lb./ft.) | 69 | 39 | 25 |
| | Deflection (in.) | 0.382 | 0.730 | 1.000 |
| | Deflection Factor | 0.006 | 0.019 | 0.040 |
| SHU12 | Load (lb./ft.) | 69 | 39 | 25 |
| | Deflection (in.) | 0.382 | 0.730 | 1.000 |
| | Deflection Factor | 0.006 | 0.019 | 0.040 |
| SSU12 | Load (lb./ft.) | 69 | 39 | 25 |
| | Deflection (in.) | 0.382 | 0.730 | 1.000 |
| | Deflection Factor | 0.006 | 0.019 | 0.040 |

Straight Lengths

2 in. Straight Sections / AL, SP, SH, SS

Solid and Vented



Dimensions

| All U12 Series (Dimensions) | |
|--------------------------------|----------|
| W (in.) | Wi (in.) |
| 6 | 5.0 |
| 9 | 8.0 |
| 12 | 11.0 |
| 18 | 17.0 |
| 24 | 23.0 |
| 30 | 29.0 |
| 36 | 35.0 |

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

| Series | Dimensions | Classifications | |
|----------------|------------|-----------------|-----|
| | | NEMA | CSA |
| ALU12 | See above | - | A |
| SPU12 SHU12 | See above | - | A |
| SSU12 | See above | - | A |

Straight Lengths

3-5/8 in. Straight Sections / AL, SP, SH, SS

Solid and vented

Straight Section Number Selection

| (ALU13) 12V-3 | | | | | |
|---|-----------------------------|------------------------|---|---|------------------|
| Material Prefix | Series Prefix | Side rail height (in.) | Width | Bottom Type | Length |
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • Stainless Steel 316 | U1 • Unit or One-Piece Tray | 3 • (3-5/8 in.) | 06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) | V • Ventilated trough S • Solid trough | 3 • (3 meters) * |

* Standard straight length is 10 feet nominal = actually 3 m.

1 m = 3.2808 ft.
3 m = 9.842 ft.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

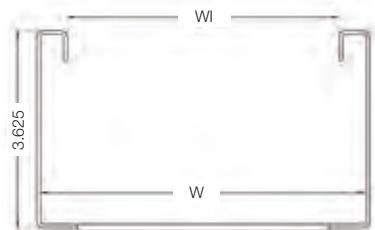
For fittings consult pages A50 to A91.

| Series | Support Span (Feet) | | | |
|--------------|---------------------|-------|-------|-------|
| | 6 | 8 | 10 | |
| ALU13 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.382 | 0.430 | 0.540 |
| | Deflection Factor | 0.002 | 0.004 | 0.008 |
| SPU13 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |
| SHU13 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |
| SSU13 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |

Straight Lengths

3-5/8 in. Straight Sections / AL, SP, SH, SS

Solid and vented



Dimensions

| All U13 series (Dimensions) | |
|--------------------------------|----------|
| W (in.) | Wi (in.) |
| 6 | 5.0 |
| 9 | 8.0 |
| 12 | 11.0 |
| 18 | 17.0 |
| 24 | 23.0 |
| 30 | 29.0 |
| 36 | 35.0 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

| Series | Dimensions | Classifications | |
|--------------|------------|-----------------|-----|
| | | NEMA | CSA |
| ALU13 | See above | 8C | C |
| SPU13 | See above | 8C | C |
| SHU13 | See above | 8C | C |
| SSU13 | See above | 8C | C |

Straight Lengths

6 in. Straight Sections / AL, SP, SH, SS

Solid and vented

Straight Section Number Selection

(ALU16) 12V-3

| Material | Series | Side rail height (in.) | Width | Bottom Type | Length |
|---|-----------------------------|------------------------|---|---|-----------------|
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • Stainless steel 316 | U1 • Unit or one-piece tray | 6 • (6 in.) | 06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) | V • Ventilated trough S • Solid trough | 3 •(3 meters) * |

* Standard straight length is 10 feet nominal = actually 3 m.

1 m = 3.2808 ft.

3 m = 9.842 ft.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

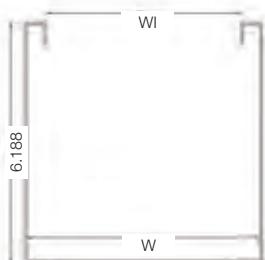
For fittings consult pages A50 to A91.

| Series | | Support Span (Feet) | | |
|--------------|-------------------|---------------------|-------|-------|
| | | 6 | 8 | 10 |
| ALU16 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.082 | 0.128 | 0.160 |
| | Deflection Factor | 0.000 | 0.001 | 0.008 |
| SPU16 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |
| SHU16 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |
| SSU16 | Load (lb./ft.) | 180 | 101 | 65 |
| | Deflection (in.) | 0.125 | 0.250 | 0.320 |
| | Deflection Factor | 0.001 | 0.002 | 0.005 |

Straight Lengths

6 in. Straight Sections / AL, SP, SH, SS

Solid and vented



Dimensions

| All U16 Series (Dimensions) | |
|--------------------------------|----------|
| W (in.) | Wi (in.) |
| 6 | 5.0 |
| 9 | 8.0 |
| 12 | 11.0 |
| 18 | 17.0 |
| 24 | 23.0 |
| 30 | 29.0 |
| 36 | 35.0 |



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

| Series | Dimensions | Classifications | |
|--------------|------------|-----------------|-----|
| | | NEMA | CSA |
| ALU16 | See Above | 8C | C |
| SPU16 | See Above | 8C | C |
| SHU16 | See Above | 8C | C |
| SSU16 | See Above | 8C | C |

Fittings**Fittings Number Selection****Fitting Number Selection**

| SHUF306VHB9012 | | | | | | |
|---|---|---|------------------------------------|---|--|---|
| Fitting Material Prefix | Side Rail Depth | Width | Bottom Type | Fitting Type | Angle** | Nominal Radius † |
| ALUF • Aluminum SPUF • Pregalvanized fittings SHUF • Hot-dipped galvanized fittings SSUF • Stainless steel 316 | 2 • (2 in.) 3 • (3-5/8 in.) 6 • (6 in.) | 06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) | V • Ventilated S • Solid trough | HB • Horizontal bend HT • Horizontal tee HX • Horizontal cross VI • Vertical inside bend VO • Vertical outside bend HYR • Horizontal wye right HYL • Horizontal wye left RT • Horizontal reducing tee ET • Horizontal expanding tee EX • Horizontal expand cross HLR • Horizontal left reducer HSR • Horizontal straight reducer HRR • Horizontal right reducer VTU • Vertical tee up VTD • Vertical tee down CS • Cable support | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • (12 in.) 24 • (24 in.) 36 • (36 in.) |

* Angle is required for HB, VI, VO only.

† Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR

Fittings

90° / 60° Horizontal Bends

Part Numbering System

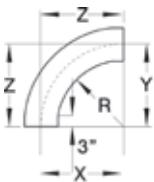
ALUF 3 24 V HB90 12

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Side rail depth Width Fitting type Nominal radius
 ALUF, SPUF, SHUF, SSUF
 Side rail depth Bottom style Angle
 3 24 V HB90 12

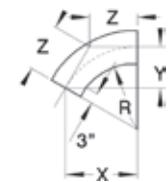
Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Side Rail Depth: 2 in., 3 in., 6 in

90° Horizontal BEND



60° Horizontal BEND



| Nominal Radius | Width | Cat. No. | Dimensions | | |
|----------------|-------|--------------------------|------------|----|----|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB90-12 | 15 | 15 | 15 |
| | 12 | Prefix(t)-12-(*)-HB90-12 | 18 | 18 | 18 |
| | 18 | Prefix(t)-18-(*)-HB90-12 | 21 | 21 | 21 |
| | 24 | Prefix(t)-24-(*)-HB90-12 | 24 | 24 | 24 |
| | 30 | Prefix(t)-30-(*)-HB90-12 | 27 | 27 | 27 |
| | 36 | Prefix(t)-36-(*)-HB90-12 | 30 | 30 | 30 |
| 24 | 6 | Prefix(t)-06-(*)-HB90-24 | 27 | 27 | 17 |
| | 12 | Prefix(t)-12-(*)-HB90-24 | 30 | 30 | 30 |
| | 18 | Prefix(t)-18-(*)-HB90-24 | 33 | 33 | 33 |
| | 24 | Prefix(t)-24-(*)-HB90-24 | 36 | 36 | 36 |
| | 30 | Prefix(t)-30-(*)-HB90-24 | 39 | 39 | 39 |
| | 36 | Prefix(t)-36-(*)-HB90-24 | 42 | 42 | 42 |
| 36 | 6 | Prefix(t)-06-(*)-HB90-36 | 39 | 39 | 39 |
| | 12 | Prefix(t)-12-(*)-HB90-36 | 42 | 42 | 42 |
| | 18 | Prefix(t)-18-(*)-HB90-36 | 45 | 45 | 45 |
| | 24 | Prefix(t)-24-(*)-HB90-36 | 48 | 48 | 48 |
| | 30 | Prefix(t)-30-(*)-HB90-36 | 51 | 51 | 51 |
| | 36 | Prefix(t)-36-(*)-HB90-36 | 54 | 54 | 54 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.
 Includes 1 pair of splice plates with hardware.

| Nominal Radius | Width | Cat. No. | Dimensions | | |
|----------------|-------|--------------------------|------------|--------|----------|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB60-12 | 14-7/8 | 8-5/8 | 9-15/16 |
| | 12 | Prefix(t)-12-(*)-HB60-12 | 17-1/2 | 10-1/8 | 11-11/16 |
| | 18 | Prefix(t)-18-(*)-HB60-12 | 20-1/16 | 11-5/8 | 13-3/8 |
| | 24 | Prefix(t)-24-(*)-HB60-12 | 22-11/16 | 13-1/8 | 15-1/8 |
| | 30 | Prefix(t)-30-(*)-HB60-12 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 36 | Prefix(t)-36-(*)-HB60-12 | 27-7/8 | 16-1/8 | 18-9/16 |
| 24 | 6 | Prefix(t)-06-(*)-HB60-24 | 25-5/16 | 14-5/8 | 16-7/8 |
| | 12 | Prefix(t)-12-(*)-HB60-24 | 27-7/8 | 16-1/8 | 18-9/16 |
| | 18 | Prefix(t)-18-(*)-HB60-24 | 30-1/2 | 17-5/8 | 20-5/16 |
| | 24 | Prefix(t)-24-(*)-HB60-24 | 33-1/16 | 19-1/8 | 22-1/16 |
| | 30 | Prefix(t)-30-(*)-HB60-24 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 36 | Prefix(t)-36-(*)-HB60-24 | 38-1/4 | 22-1/8 | 25-1/2 |
| 36 | 6 | Prefix(t)-06-(*)-HB60-36 | 35-11/16 | 20-5/8 | 23-13/16 |
| | 12 | Prefix(t)-12-(*)-HB60-36 | 38-1/4 | 22-1/8 | 25-1/2 |
| | 18 | Prefix(t)-18-(*)-HB60-36 | 40-7/8 | 23-5/8 | 27-2/8 |
| | 24 | Prefix(t)-24-(*)-HB60-36 | 43-1/2 | 25-1/8 | 29 |
| | 30 | Prefix(t)-30-(*)-HB60-36 | 46-1/16 | 26-5/8 | 30-11/16 |
| | 36 | Prefix(t)-36-(*)-HB60-36 | 48-11/16 | 28-1/8 | 32-7/16 |

Fittings

45° / 30° Horizontal Bends

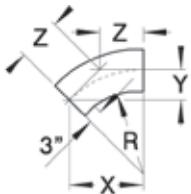
Part Numbering System

| | | | | |
|----------------------------|-------------------------------------|--------------|--------------|----------------|
| ALUF 3 24 V HB45 12 | Prefix ALUF, SPUF, SHUF, SSUF | Width | Fitting type | Nominal radius |
| | Side rail depth | Bottom style | Angle | |

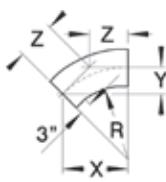
Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
Inside Tray Widths: 6, 12, 18, 24, 30, 36
Angle: 45°, 30°
Nominal Radius: 12, 24, 36
Bottom Styles: V– Ventilated, S– Solid
Side Rail Depth: 2 in., 3 in., 6 in.

45° Horizontal BEND



30° Horizontal BEND



| Nominal Radius | Width | Cat. No. | Dimensions | | |
|----------------|-------|--------------------------|------------|----------|----------|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB45-12 | 13-5/8 | 5-5/8 | 8 |
| | 12 | Prefix(t)-12-(*)-HB45-12 | 15-3/4 | 6-1/2 | 9-3/16 |
| | 18 | Prefix(t)-18-(*)-HB45-12 | 17-7/8 | 7-3/8 | 10-7/16 |
| | 24 | Prefix(t)-24-(*)-HB45-12 | 20 | 8-1/4 | 11-11/16 |
| | 30 | Prefix(t)-30-(*)-HB45-12 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 36 | Prefix(t)-36-(*)-HB45-12 | 24-3/16 | 10 | 14-3/16 |
| 24 | 6 | Prefix(t)-06-(*)-HB45-24 | 22-1/16 | 9-1/8 | 12-15/16 |
| | 12 | Prefix(t)-12-(*)-HB45-24 | 24-3/16 | 10 | 14-3/16 |
| | 18 | Prefix(t)-18-(*)-HB45-24 | 26-5/16 | 10-15/16 | 15-7/16 |
| | 24 | Prefix(t)-24-(*)-HB45-24 | 28-7/16 | 11-13/16 | 16-11/16 |
| | 30 | Prefix(t)-30-(*)-HB45-24 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 36 | Prefix(t)-36-(*)-HB45-24 | 32-11/16 | 13-9/16 | 19-1/8 |
| 36 | 6 | Prefix(t)-06-(*)-HB45-36 | 30-9/16 | 12-11/16 | 17-15/16 |
| | 12 | Prefix(t)-12-(*)-HB45-36 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 18 | Prefix(t)-18-(*)-HB45-36 | 34-13/16 | 14-7/16 | 20-3/8 |
| | 24 | Prefix(t)-24-(*)-HB45-36 | 36-15/16 | 15-5/16 | 21-5/8 |
| | 30 | Prefix(t)-30-(*)-HB45-36 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 36 | Prefix(t)-36-(*)-HB45-36 | 41-3/16 | 17-1/16 | 24-1/8 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO. Includes 1 pair of splice plates with hardware.

| Nominal Radius | Width | Cat. No. | Dimensions | | |
|----------------|-------|--------------------------|------------|---------|----------|
| | | | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-HB30-12 | 11-5/8 | 3-18 | 6-3/16 |
| | 12 | Prefix(t)-12-(*)-HB30-12 | 13-1/2 | 3-1/2 | 7 |
| | 18 | Prefix(t)-18-(*)-HB30-12 | 14-5/8 | 3-15/16 | 7-13/16 |
| | 24 | Prefix(t)-24-(*)-HB30-12 | 16-1/8 | 4-5/16 | 8-5/8 |
| | 30 | Prefix(t)-30-(*)-HB30-12 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 36 | Prefix(t)-36-(*)-HB30-12 | 19-1/8 | 5-1/8 | 10-1/4 |
| 24 | 6 | Prefix(t)-06-(*)-HB30-24 | 17-5/8 | 4-11/16 | 9-7/16 |
| | 12 | Prefix(t)-12-(*)-HB30-24 | 19-1/8 | 5-2/16 | 10-4/16 |
| | 18 | Prefix(t)-18-(*)-HB30-24 | 20-5/8 | 5-8/16 | 11-1/16 |
| | 24 | Prefix(t)-24-(*)-HB30-24 | 22-1/8 | 5-15/16 | 11-13/16 |
| | 30 | Prefix(t)-30-(*)-HB30-24 | 23-5/8 | 6-5/16 | 12-10/16 |
| | 36 | Prefix(t)-36-(*)-HB30-24 | 25-1/8 | 6-12/16 | 13-7/16 |
| 36 | 6 | Prefix(t)-06-(*)-HB30-36 | 23-5/8 | 6-5/16 | 12-5/8 |
| | 12 | Prefix(t)-12-(*)-HB30-36 | 25-1/8 | 6-3/4 | 13-7/16 |
| | 18 | Prefix(t)-18-(*)-HB30-36 | 26-5/8 | 7-1/4 | 14-1/4 |
| | 24 | Prefix(t)-24-(*)-HB30-36 | 28-1/8 | 7-1/2 | 15-1/16 |
| | 30 | Prefix(t)-30-(*)-HB30-36 | 29-5/8 | 7-15/16 | 15-7/8 |
| | 36 | Prefix(t)-36-(*)-HB30-36 | 31-1/8 | 8-5/16 | 16-11/16 |

Fittings

Horizontal Tees

Part Numbering System

ALUF 3 24 V HT 12

Prefix
ALUF, SPUF,
SHUF, SSUF
Side rail
depth

Width

Fitting
type

Nominal
radius

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

Inside Tray Widths: 6, 12, 18, 24, 30, 36

Nominal Radius: 12, 24, 36

Bottom Styles: V – Ventilated, S – Solid

Side Rail Depth: 2 in., 3 in., 6 in.

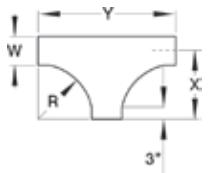
Horizontal TEE



Solid



Ventilated



| Nominal Radius | Width | Cat. No. | Dimensions | |
|----------------|-------|-----------------------|------------|-----|
| | | | X | Y |
| 12 | 6 | Prefix(t)-06-(*)-HT12 | 15 | 30 |
| | 12 | Prefix(t)-12-(*)-HT12 | 18 | 36 |
| | 18 | Prefix(t)-18-(*)-HT12 | 21 | 42 |
| | 24 | Prefix(t)-24-(*)-HT12 | 24 | 48 |
| | 30 | Prefix(t)-30-(*)-HT12 | 27 | 54 |
| | 36 | Prefix(t)-36-(*)-HT12 | 30 | 60 |
| 24 | 6 | Prefix(t)-06-(*)-HT24 | 27 | 54 |
| | 12 | Prefix(t)-12-(*)-HT24 | 30 | 60 |
| | 18 | Prefix(t)-18-(*)-HT24 | 33 | 66 |
| | 24 | Prefix(t)-24-(*)-HT24 | 36 | 72 |
| | 30 | Prefix(t)-30-(*)-HT24 | 39 | 78 |
| | 36 | Prefix(t)-36-(*)-HT24 | 42 | 84 |
| 36 | 6 | Prefix(t)-06-(*)-HT36 | 39 | 78 |
| | 12 | Prefix(t)-12-(*)-HT36 | 42 | 84 |
| | 18 | Prefix(t)-18-(*)-HT36 | 45 | 90 |
| | 24 | Prefix(t)-24-(*)-HT36 | 48 | 96 |
| | 30 | Prefix(t)-30-(*)-HT36 | 51 | 102 |
| | 36 | Prefix(t)-36-(*)-HT36 | 54 | 108 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.

Tees include 2 pairs/crosses include 3 pairs of splice plates with hardware.

Fittings

Horizontal Crosses

Part Numbering System

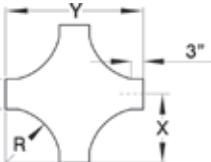
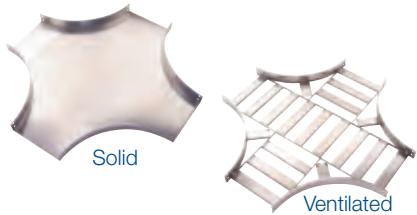
ALUF 3 24 V HX 12

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 38
 Bottom Styles: V—Ventilated, S—Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 38
 Bottom Styles: V—Ventilated, S—Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

Horizontal CROSS



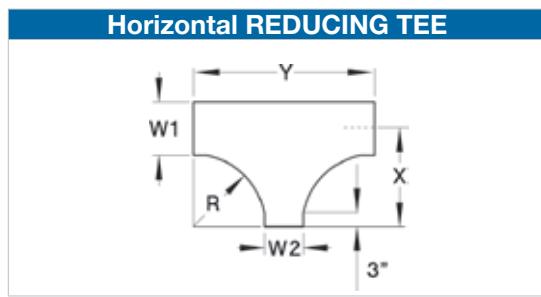
| Nominal Radius | Width | Cat. No. | Dimensions | |
|----------------|-------|-----------------------|------------|-----|
| | | | X | Y |
| 12 | 6 | Prefix(†)-06-(*)-HX12 | 15 | 30 |
| | 12 | Prefix(†)-12-(*)-HX12 | 18 | 36 |
| | 18 | Prefix(†)-18-(*)-HX12 | 21 | 42 |
| | 24 | Prefix(†)-24-(*)-HX12 | 24 | 48 |
| | 30 | Prefix(†)-30-(*)-HX12 | 27 | 54 |
| | 36 | Prefix(†)-36-(*)-HX12 | 30 | 60 |
| 24 | 6 | Prefix(†)-06-(*)-HX24 | 27 | 54 |
| | 12 | Prefix(†)-12-(*)-HX24 | 30 | 60 |
| | 18 | Prefix(†)-18-(*)-HX24 | 33 | 66 |
| | 24 | Prefix(†)-24-(*)-HX24 | 36 | 72 |
| | 30 | Prefix(†)-30-(*)-HX24 | 39 | 78 |
| | 36 | Prefix(†)-36-(*)-HX24 | 42 | 84 |
| 36 | 6 | Prefix(†)-06-(*)-HX36 | 39 | 78 |
| | 12 | Prefix(†)-12-(*)-HX36 | 42 | 84 |
| | 18 | Prefix(†)-18-(*)-HX36 | 45 | 90 |
| | 24 | Prefix(†)-24-(*)-HX36 | 48 | 96 |
| | 30 | Prefix(†)-30-(*)-HX36 | 51 | 102 |
| | 36 | Prefix(†)-36-(*)-HX36 | 54 | 108 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.
 Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Fittings

Horizontal Reducing Tees

| Part Numbering System | | | | | Selection Guide | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ALUF 3 2412 V RT 12 | | | | | Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel) | | | | | | | | | |
| Prefix ALUF, SPUF, SHUF, SSUF | | | | | | | | | | | | | | |
| Side rail depth | | | | | | | | | | | | | | |
| Width 1 | | | | | | | | | | | | | | |
| Width 2 | | | | | | | | | | | | | | |
| Fitting type | | | | | | | | | | | | | | |
| Nominal radius | | | | | | | | | | | | | | |
| Tray Widths W1: 36, 30, 24, 18, 12 | | | | | | | | | | | | | | |
| Tray Widths W2: 30, 24, 18, 12, 6 | | | | | | | | | | | | | | |
| Nominal Radius: 12, 24, 36 | | | | | | | | | | | | | | |
| Bottom Styles: V—Ventilated, S—Solid | | | | | | | | | | | | | | |
| Side Rail Depth: 2 in., 3 in., 6 in. | | | | | | | | | | | | | | |



| Widths | | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | |
|--------|----|--------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|
| W1 | W2 | | X | Y | X | Y | X | Y |
| 36 | 30 | Prefix(†)-3630-(*)-RT(+) | 30 | 54 | 42 | 78 | 54 | 102 |
| | 24 | Prefix(†)-3624-(*)-RT(+) | 30 | 48 | 42 | 72 | 54 | 96 |
| | 18 | Prefix(†)-3618-(*)-RT(+) | 30 | 42 | 42 | 66 | 54 | 90 |
| | 12 | Prefix(†)-3612-(*)-RT(+) | 30 | 36 | 42 | 60 | 54 | 84 |
| | 6 | Prefix(†)-3606-(*)-RT(+) | 30 | 30 | 42 | 54 | 54 | 78 |
| 30 | 24 | Prefix(†)-3024-(*)-RT(+) | 27 | 48 | 39 | 72 | 51 | 96 |
| | 18 | Prefix(†)-3018-(*)-RT(+) | 27 | 42 | 39 | 66 | 51 | 90 |
| | 12 | Prefix(†)-3012-(*)-RT(+) | 27 | 36 | 39 | 60 | 51 | 84 |
| | 6 | Prefix(†)-3006-(*)-RT(+) | 27 | 30 | 39 | 54 | 51 | 78 |
| 24 | 18 | Prefix(†)-2418-(*)-RT(+) | 24 | 42 | 36 | 66 | 48 | 90 |
| | 12 | Prefix(†)-2412-(*)-RT(+) | 24 | 36 | 36 | 60 | 48 | 84 |
| | 6 | Prefix(†)-2406-(*)-RT(+) | 24 | 30 | 36 | 54 | 48 | 78 |
| 18 | 12 | Prefix(†)-1812-(*)-RT(+) | 21 | 36 | 33 | 60 | 45 | 84 |
| | 6 | Prefix(†)-1806-(*)-RT(+) | 21 | 30 | 33 | 54 | 45 | 78 |
| 12 | 6 | Prefix(†)-1206-(*)-RT(+) | 18 | 30 | 30 | 54 | 42 | 78 |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert radius (12 in. - 36 in.) to complete CAT. NO.
Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Tees

Part Numbering System

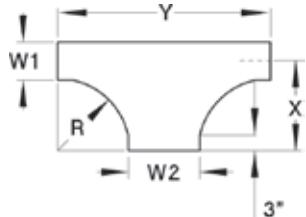
ALUF 3 2430 V ET 12

| | | | | |
|-------------------------------------|-----------------|---------|-----------------|-------------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Width 1 | Width 2 | Fitting type | Nominal radius |
| Side rail depth | | | | |
| | Bottom style | | | |

Selection Guide

Prefix: SALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Tray Widths W1: 30, 24, 18, 12, 6
 Tray Widths W2: 36, 30, 24, 18, 12
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

Horizontal EXPANDING TEE



| W1 | W2 | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | |
|-----------|----|--------------------------|---------------------------|----|---------------------------|----|---------------------------|-----|
| | | | X | Y | X | Y | X | Y |
| 30 | 36 | Prefix(†)-3036-(*)-ET(+) | 27 | 60 | 39 | 84 | 51 | 108 |
| 24 | 30 | Prefix(†)-2430-(*)-ET(+) | 24 | 54 | 36 | 78 | 48 | 102 |
| | 36 | Prefix(†)-2436-(*)-ET(+) | 24 | 60 | 36 | 84 | 48 | 108 |
| 18 | 24 | Prefix(†)-1824-(*)-ET(+) | 21 | 48 | 33 | 72 | 45 | 96 |
| | 30 | Prefix(†)-1830-(*)-ET(+) | 21 | 54 | 33 | 78 | 45 | 102 |
| | 36 | Prefix(†)-1836-(*)-ET(+) | 21 | 60 | 33 | 84 | 45 | 108 |
| 12 | 18 | Prefix(†)-1218-(*)-ET(+) | 18 | 42 | 30 | 66 | 42 | 90 |
| | 24 | Prefix(†)-1224-(*)-ET(+) | 18 | 48 | 30 | 72 | 42 | 96 |
| | 30 | Prefix(†)-1230-(*)-ET(+) | 18 | 54 | 30 | 78 | 42 | 102 |
| | 36 | Prefix(†)-1236-(*)-ET(+) | 18 | 60 | 30 | 84 | 42 | 108 |
| 06 | 12 | Prefix(†)-0612-(*)-ET(+) | 15 | 36 | 27 | 60 | 39 | 84 |
| | 18 | Prefix(†)-0618-(*)-ET(+) | 15 | 42 | 27 | 66 | 39 | 90 |
| | 24 | Prefix(†)-0624-(*)-ET(+) | 15 | 48 | 27 | 72 | 39 | 96 |
| | 30 | Prefix(†)-0630-(*)-ET(+) | 15 | 54 | 27 | 78 | 39 | 102 |
| | 36 | Prefix(†)-0636-(*)-ET(+) | 15 | 60 | 27 | 84 | 39 | 108 |

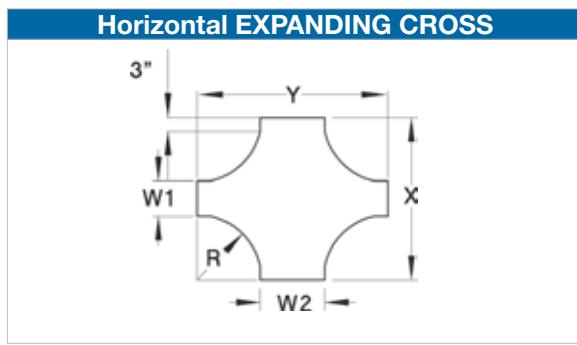
(†) Insert side rail depth. (*) Insert bottom style (+) Insert radius (12 in. - 36 in.) to complete CAT. NO.

Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Crosses

| Part Numbering System | | | | | Selection Guide | |
|-------------------------------------|---------|---------|-----------------|-------------------|--|--|
| ALUF 6 2430 V EX 12 | | | | | Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel) | |
| Prefix ALUF, SPUF, SHUF, SSUF | | | | | | |
| Side rail depth | Width 1 | Width 2 | Fitting type | Nominal radius | Tray Widths W1: 30, 24, 18, 12, 6 | |
| | | | | | Tray Widths W2: 36, 30, 24, 18, 12 | |
| | | | | | Nominal Radius: 12, 24, 36 | |
| | | | | | Bottom Styles: V— Ventilated, S— Solid | |
| | | | | | Side Rail Depth: 2 in., 3 in., 6 in. | |



| W1 | W2 | Cat. No. | (+) 12 in. Nominal Radius | | (+) 24 in. Nominal Radius | | (+) 36 in. Nominal Radius | |
|-----------|----|--|---------------------------|----|---------------------------|----|---------------------------|-----|
| | | | X | Y | X | Y | X | Y |
| 30 | 36 | Prefix(†)-3036-(*)-EX(+) | 54 | 60 | 78 | 84 | 102 | 108 |
| 24 | 30 | Prefix(†)-2430-(*)-EX(+) | 48 | 54 | 72 | 78 | 96 | 102 |
| | 36 | Prefix(†)-2436-(*)-EX(+) | 48 | 60 | 72 | 84 | 96 | 108 |
| 18 | 24 | Prefix(†)-1824-(*)-EX(+) | 42 | 48 | 66 | 72 | 90 | 96 |
| | 30 | Prefix(†)-1830-(*)-EX(+) | 42 | 54 | 66 | 78 | 90 | 102 |
| | 36 | Prefix(†)-1836-(*)-EX(+) | 42 | 60 | 66 | 84 | 90 | 108 |
| 12 | 18 | Prefix(†)-1218-(*)-EX(+) | 36 | 42 | 60 | 66 | 84 | 90 |
| | 24 | Prefix(†)-1224-(*)-EX(+) | 36 | 48 | 60 | 72 | 84 | 96 |
| | 30 | Prefix(†)-1230-(*)-EX(+) | 36 | 54 | 60 | 78 | 84 | 102 |
| | 36 | Prefix(†)-1236-(*)-EX(+) | 36 | 60 | 60 | 84 | 84 | 108 |
| 06 | 12 | Prefix(†)-0612-(*)-EX(+) | 30 | 36 | 54 | 60 | 78 | 84 |
| | 18 | Prefix(†)-0618-(*)-EX(+) | 30 | 42 | 54 | 66 | 78 | 90 |
| | 24 | Prefix(†)-0624-(*)-EX(+) | 30 | 48 | 54 | 72 | 78 | 96 |
| | 30 | Prefix(†)-0630-(*)-EX(+) | 30 | 54 | 54 | 78 | 78 | 102 |
| | 36 | Prefix(†)-0636-(*)-EX(+) | 30 | 60 | 54 | 84 | 78 | 108 |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert radius (12 in. - 36 in.) to complete CAT. NO.
Includes 3 pairs of splice plates with hardware.

Fittings

90° Vertical Bends

Part Numbering System

ALUF 3 24 V VI90 12

Prefix ALUF, SPUF
SHUF, SSUF Width Fitting type Nominal radius

Side rail depth

Bottom style

Angle

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

Inside Tray Widths: 6, 12, 18, 24, 30, 36

Angle: 90°

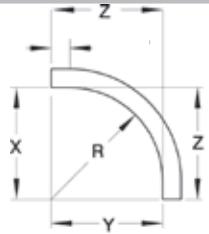
Nominal Radius: 12, 24, 36

Bottom Styles: V– Ventilated, S– Solid

Side Rail Depth: 2 in., 3 in., 6 in.

90° Vertical BEND

Outside Bend Ventilated



Inside Bend Ventilated



| Nominal Radius | Width | Cat. No. | (+) VO Side Rail Depth | | | (+) VI Side Rail Depth | | | | | | | | |
|----------------|-------|-----------------------------------|------------------------|----|----|------------------------|--------|--------|--------|--------|--------|---------|---------|---------|
| | | | 2 in., 3 in., 6 in. | | | 2 in. | | | 3 in. | | | 6 in. | | |
| | | | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | Prefix(†)-06-(*)-(+) 90-12 | 12 | 12 | 12 | 13-7/8 | 13-7/8 | 13-7/8 | 15-5/8 | 15-5/8 | 15-5/8 | 18-3/16 | 18-3/16 | 18-3/16 |
| | 12 | Prefix(†)-12-(*)-(+) 90-12 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+) 90-12 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+) 90-12 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+) 90-12 | | | | | | | | | | | | |
| 24 | 6 | Prefix(†)-06-(*)-(+) 90-24 | 24 | 24 | 24 | 25-7/8 | 25-7/8 | 25-7/8 | 27-5/8 | 27-5/8 | 27-5/8 | 30-3/16 | 30-3/16 | 30-3/16 |
| | 12 | Prefix(†)-12-(*)-(+) 90-24 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+) 90-24 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+) 90-24 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+) 90-24 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+) 90-24 | | | | | | | | | | | | |
| 36 | 6 | Prefix(†)-06-(*)-(+) 90-36 | 36 | 36 | 36 | 37-7/8 | 37-7/8 | 37-7/8 | 39-5/8 | 39-5/8 | 39-5/8 | 42-3/16 | 42-3/16 | 42-3/16 |
| | 12 | Prefix(†)-12-(*)-(+) 90-36 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+) 90-36 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+) 90-36 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+) 90-36 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+) 90-36 | | | | | | | | | | | | |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO.
Includes 1 pair of splice plates with hardware.

Fittings

60° Vertical Bends

Part Numbering System

ALUF 3 12 V VI60 12

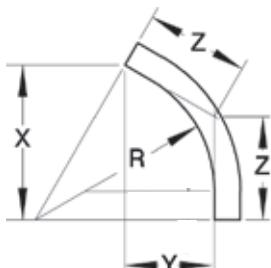
Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Side rail depth: 3
 Width: 12
 Fitting type: V
 Nominal radius: 12

Selection Guide

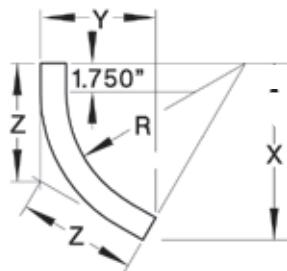
Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Angle: 60°
 Nominal Radius: 12, 24, 36
 Bottom Styles: V—Ventilated, S—Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

60° Vertical BEND

Outside Bend



Inside Bend



| Nominal Radius | Width | Cat. No. | (+) VO Side Rail Depth | | | (+) VI Side Rail Depth | | | | | | | | |
|----------------|-------|---------------------------|------------------------|----|----------|------------------------|--------|----------|----------|--------|----------|--------|---------|---------|
| | | | 2 in., 3 in., 6 in. | | | 2 in. | | | 3 in. | | | 6 in. | | |
| | | | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | Prefix(t)-06-(*)-(+)60-12 | 10-3/8 | 6 | 6-15/16 | 12 | 7-7/8 | 8 | 13-1/2 | 9-5/8 | 9 | 15-3/4 | 12-3/16 | 10-1/2 |
| | 12 | Prefix(t)-12-(*)-(+)60-12 | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)60-12 | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)60-12 | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)60-12 | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)60-12 | | | | | | | | | | | | |
| 24 | 6 | Prefix(t)-06-(*)-(+)60-24 | 20-13/16 | 12 | 13-7/8 | 22-7/16 | 13-7/8 | 14-15/16 | 23-15/16 | 15-5/8 | 15-15/16 | 26-1/8 | 18-3/16 | 17-7/16 |
| | 12 | Prefix(t)-12-(*)-(+)60-24 | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)60-24 | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)60-24 | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)60-24 | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)60-24 | | | | | | | | | | | | |
| 36 | 6 | Prefix(t)-06-(*)-(+)60-36 | 31-3/16 | 18 | 20-13/16 | 32-13/16 | 19-7/8 | 21-7/8 | 34-5/16 | 21-5/8 | 22-7/8 | 36-1/2 | 24-3/16 | 24-3/8 |
| | 12 | Prefix(t)-12-(*)-(+)60-36 | | | | | | | | | | | | |
| | 18 | Prefix(t)-18-(*)-(+)60-36 | | | | | | | | | | | | |
| | 24 | Prefix(t)-24-(*)-(+)60-36 | | | | | | | | | | | | |
| | 30 | Prefix(t)-30-(*)-(+)60-36 | | | | | | | | | | | | |
| | 36 | Prefix(t)-36-(*)-(+)60-36 | | | | | | | | | | | | |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO.
Includes 1 pair of splice plates with hardware.

Fittings

45° Vertical Bends

Part Numbering System

ALUF 3 12 V VI45 12

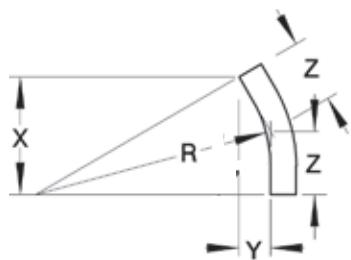
| | | | | |
|-------------------------------------|----------------------------|-------------------|--------------|----------------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Width 12 | Fitting type V | Angle 45° | Nominal radius 12 |
| Side rail depth 2 in. | Bottom style Ventilated | | | |

Selection Guide

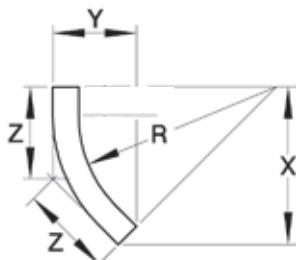
Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Angle: 45°
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

45° Vertical BEND

Outside Bend Ventilated



Inside Bend Ventilated



| Nominal Radius | Width | Cat. No. | (+ VO Side Rail Depth) | | | (+ VI Side Rail Depth) | | | | | | | | |
|----------------|-------|--------------------------|------------------------|---------|----------|------------------------|---------|----------|---------|---------|---------|----------|---------|--------|
| | | | 2 in., 3 in., 6 in. | | | 2 in. | | | 3 in. | | | 6 in. | | |
| | | | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | Prefix(†)-06-(*)-(+45-12 | 8-1/2 | 3-1/2 | 5 | 9-13/16 | 5-3/8 | 5-3/4 | 11-1/16 | 7-1/8 | 6-11/16 | 12-7/8 | 9-11/16 | 7-9/16 |
| | 12 | Prefix(†)-12-(*)-(+45-12 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+45-12 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+45-12 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+45-12 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+45-12 | | | | | | | | | | | | |
| 24 | 6 | Prefix(†)-06-(*)-(+45-24 | 17 | 7 | 9-15/16 | 18-5/16 | 8-7/8 | 10-11/16 | 19-1/2 | 10-5/8 | 11-7/16 | 21-3/8 | 13-3/16 | 12-1/2 |
| | 12 | Prefix(†)-12-(*)-(+45-24 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+45-24 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+45-24 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+45-24 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+45-24 | | | | | | | | | | | | |
| 36 | 6 | Prefix(†)-06-(*)-(+45-36 | 25-7/16 | 10-9/16 | 14-15/16 | 26-13/16 | 12-7/16 | 15-11/16 | 28 | 14-3/16 | 16-7/16 | 29-13/16 | 16-3/4 | 17-1/2 |
| | 12 | Prefix(†)-12-(*)-(+45-36 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+45-36 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+45-36 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+45-36 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+45-36 | | | | | | | | | | | | |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO.
 Includes 1 pair of splice plates with hardware.

Fittings

30° Vertical Bends

Part Numbering System

ALUF 3 06 V VI30 12

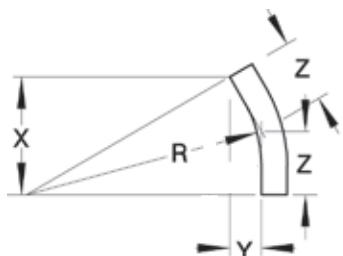
| | | | |
|-------------------------------------|--------------|--------------|----------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Width | Fitting type | Nominal radius |
| Side rail depth | Bottom style | Angle | |

Selection Guide

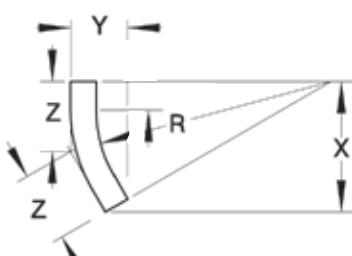
Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
Inside Tray Widths: 6, 12, 18, 24, 30, 36
Angle: 30°
Nominal Radius: 12, 24, 36
Bottom Styles: V—Ventilated, S—Solid
Side Rail Depth: 2 in., 3 in., 6 in.

30° Vertical BEND

Outside Bend Ventilated



Inside Bend Ventilated



| Nominal Radius | Width | Cat. No. | (+) VO Side Rail Depth | | | (+) VI Side Rail Depth | | | | | | | | |
|----------------|-------|--------------------------|------------------------|---------|--------|------------------------|---------|---------|----------|---------|--------|--------|---------|---------|
| | | | 2 in., 3 in., 6 in. | | | 2 in. | | | 3 in. | | | 6 in. | | |
| | | | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 12 | 6 | Prefix(†)-06-(*)-(+30-12 | 6 | 1-5/8 | 3-3/16 | 6-15/16 | 3-1/2 | 3-11/16 | 7-13/16 | 5-1/4 | 4-3/16 | 9-1/8 | 7-13/16 | 4-7/8 |
| | 12 | Prefix(†)-12-(*)-(+30-12 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+30-12 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+30-12 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+30-12 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+30-12 | | | | | | | | | | | | |
| 24 | 6 | Prefix(†)-06-(*)-(+30-24 | 12 | 3-3/16 | 6-7/16 | 12-15/16 | 5-1/16 | 6-15/16 | 13-13/16 | 6-13/16 | 7-3/8 | 15-1/8 | 9-3/8 | 8-1/16 |
| | 12 | Prefix(†)-12-(*)-(+30-24 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+30-24 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+30-24 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+30-24 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+30-24 | | | | | | | | | | | | |
| 36 | 6 | Prefix(†)-06-(*)-(+30-36 | 18 | 4-13/16 | 9-5/8 | 18-15/16 | 6-11/16 | 10-1/8 | 19-13/16 | 8-7/16 | 10-5/8 | 21-1/8 | 11 | 11-5/16 |
| | 12 | Prefix(†)-12-(*)-(+30-36 | | | | | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-(+30-36 | | | | | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-(+30-36 | | | | | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-(+30-36 | | | | | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-(+30-36 | | | | | | | | | | | | |

(†) Insert side rail depth. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete CAT. NO.
Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Reducers

Part Numbering System

| | | | |
|-------------------------------------|--------------------|-----------------|--------------|
| ALUF 3 3624 V HLR | Width 1 | Width 2 | Fitting type |
| Prefix ALUF, SPUF, SHUF, SSUF | Side rail depth | Bottom style | |

Selection Guide

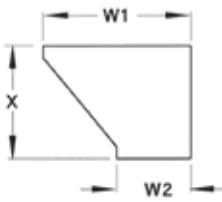
Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)
 Tray Widths W1: 36, 30, 24, 18, 12
 Tray Widths W2: 30, 24, 18, 12, 6
 Bottom Styles: V – Ventilated, S – Solid
 Side Rail Depth: 2 in., 3 in., 6 in.

Horizontal Reducers

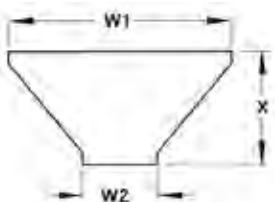
Straight Reducer



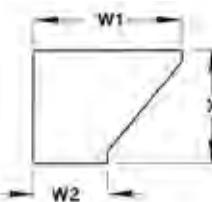
Straight Reducer



Offset Reducer - Right



Offset Reducer - Left



| Widths | | LH Reducer | | Straight Reducer | | RH Reducer | |
|-----------|----|-------------------------|----------|-------------------------|----------|---------------------------|----------|
| W1 | W2 | Cat. No. | Dim. X | Cat. No. | Dim. X | Cat. No. | Dim. X |
| 36 | 30 | Prefix(t)-36-30-(*)-HLR | 15-7/16 | Prefix(t)-36-30-(*)-HSR | 13-3/4 | Prefix(t)-36-30-(*)-HRR | 15-7/16 |
| | 24 | Prefix(t)-36-24-(*)-HLR | 18-15/16 | Prefix(t)-36-24-(*)-HSR | 15-7/16 | Prefix(t)-36-24-(*)-HRR | 18-15/16 |
| | 18 | Prefix(t)-36-18-(*)-HLR | 22-3/8 | Prefix(t)-36-18-(*)-HSR | 17-3/8 | Prefix(t)-36-18-(*)-HRR | 22-3/8 |
| | 12 | Prefix(t)-36-12-(*)-HLR | 25-7/8 | Prefix(t)-36-12-(*)-HSR | 18-5/16 | Prefix(t)-36-12-(*)-HRR | 25-7/8 |
| | 06 | Prefix(t)-36-06-(*)-HLR | 29-5/16 | Prefix(t)-36-06-(*)-HSR | 20-11/16 | Prefix(t)-36-06-(*)-HRR | 29-5/16 |
| 30 | 24 | Prefix(t)-30-24-(*)-HLR | 15-7/16 | Prefix(t)-30-24-(*)-HSR | 13-3/4 | Prefix(t)-30-24-(*)-HRR | 15-7/16 |
| | 18 | Prefix(t)-30-18-(*)-HLR | 18-15/16 | Prefix(t)-30-18-(*)-HSR | 15-7/16 | Prefix(t)-30-18-(*)-HRR | 18-15/16 |
| | 12 | Prefix(t)-30-12-(*)-HLR | 22-3/8 | Prefix(t)-30-12-(*)-HSR | 17-3/16 | Prefix(t)-30-12-(*)-HRR | 22-3/8 |
| | 06 | Prefix(t)-30-06-(*)-HLR | 25-7/8 | Prefix(t)-30-06-(*)-HSR | 18-15/16 | Prefix(t)-30-06-(*)-HRR | 25-7/8 |
| 24 | 18 | Prefix(t)-24-18-(*)-HLR | 15-7/16 | Prefix(t)-24-18-(*)-HSR | 13-3/4 | Prefix(t)-24-18-(*)-HRR | 15-7/16 |
| | 12 | Prefix(t)-24-12-(*)-HLR | 18-15/16 | Prefix(t)-24-12-(*)-HSR | 15-7/16 | (Prefix(t)-24-12-(*)-HRR) | 18-15/16 |
| | 06 | Prefix(t)-24-06-(*)-HLR | 22-3/8 | Prefix(t)-24-06-(*)-HSR | 17-3/16 | Prefix(t)-24-06-(*)-HRR | 22-3/8 |
| 18 | 12 | Prefix(t)-18-12-(*)-HLR | 15-7/16 | Prefix(t)-18-12-(*)-HSR | 13-3/4 | Prefix(t)-18-12-(*)-HRR | 15-7/16 |
| | 06 | Prefix(t)-18-06-(*)-HLR | 18-15/16 | Prefix(t)-18-06-(*)-HSR | 15-7/16 | Prefix(t)-18-06-(*)-HRR | 18-15/16 |
| 24 | 06 | Prefix(t)-12-06-(*)-HLR | 15-7/16 | Prefix(t)-12-06-(*)-HSR | 13-3/4 | Prefix(t)-12-06-(*)-HRR | 15-7/16 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.

Includes 1 pair of splice plates with hardware.

Fittings

45° Horizontal Wyes

Part Numbering System

ALUF-6-24-V-HYL

| | | |
|-------------------------------------|-----------------|-----------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Width | Fitting Type |
| Side rail depth | Bottom style | |

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

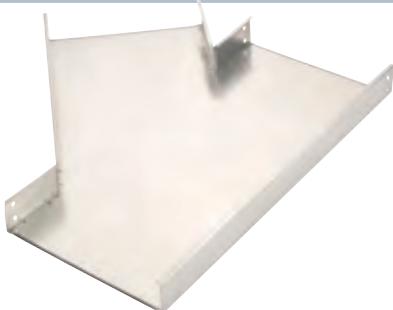
Inside Tray Widths: 6, 12, 18, 24, 30, 36

Bottom Styles: V– Ventilated, S– Solid

Side Rail Depth: 2 in., 3 in., 6 in.

45° Horizontal Wye

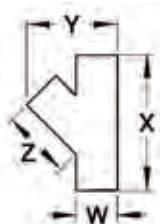
Solid - Left



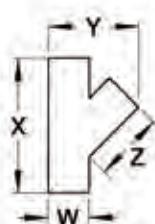
Ventilated - Left



Left Hand Wye



Right Hand Wye



| Width | Left Hand Wye Cat. No. | Right Hand Wye Cat. No. | Dimensions | | |
|-------|--------------------------------------|--------------------------------------|------------|----------|---------|
| | | | X | Y | Z |
| 06 | Prefix(†)-06-(*)-HYL | Prefix(†)-06-(*)-HYR | 18-5/16 | 14-13/16 | 12-7/16 |
| 12 | Prefix(†)-12-(*)-HYL | Prefix(†)-12-(*)-HYR | 26-3/4 | 25 | 18-7/16 |
| 18 | Prefix(†)-18-(*)-HYL | Prefix(†)-18-(*)-HYR | 35-1/4 | 35-1/4 | 24-7/16 |
| 24 | Prefix(†)-24-(*)-HYL | Prefix(†)-24-(*)-HYR | 43-1/2 | 45-1/2 | 30-7/16 |
| 30 | Prefix(†)-30-(*)-HYL | Prefix(†)-30-(*)-HYR | 52-1/4 | 55-3/4 | 36-7/16 |
| 36 | Prefix(†)-36-(*)-HYL | Prefix(†)-36-(*)-HYR | 60-11/16 | 66 | 42-7/16 |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.

Includes 2 pairs of splice plates with hardware.

Fittings

Vertical Tees Up / Down

Part Numbering System

ALUF 6 24 V VTD 12

| | | | |
|-------------------------------------|-----------------|-----------------|-------------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Width | Fitting Type | Nominal Radius |
| Side rail depth | Bottom style | | |

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

Inside Tray Widths: 6, 12, 18, 24, 30, 36

Nominal Radius: 12, 24, 36

Bottom Styles: V– Ventilated, S– Solid

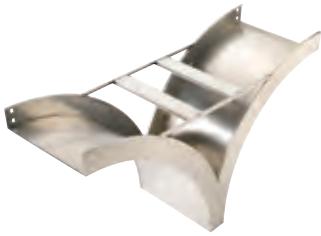
Side Rail Depth: 2 in., 3 in., 6 in.

Vertical TEE Up / Down

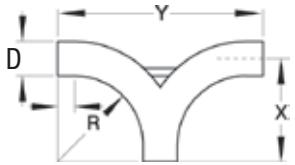
Solid



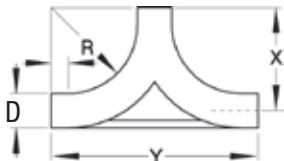
Ventilated



Down



Up



| Nominal Radius | Width | Vertical Tee Up | | Vertical Tee Down | | Side Rail Height "D" | | | | | |
|----------------|-------|------------------------|---------------------|-------------------|--------|----------------------|--------|--------|---------|-------|---|
| | | | | | | 2 in. | | 3 in. | | 6 in. | |
| | | Cat. No. | Cat. No. | X | Y | X | Y | X | Y | X | Y |
| 12 | 6 | Prefix(†)-06-(*)-VTU12 | Prefix-06-(*)-VTD12 | 12-15/16 | 25-7/8 | 13-13/16 | 27-5/8 | 15-1/8 | 30-3/16 | | |
| | 12 | Prefix(†)-12-(*)-VTU12 | Prefix-12-(*)-VTD12 | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-VTU12 | Prefix-18-(*)-VTD12 | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-VTU12 | Prefix-24-(*)-VTD12 | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-VTU12 | Prefix-30-(*)-VTD12 | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-VTU12 | Prefix-36-(*)-VTD12 | | | | | | | | |
| 24 | 6 | Prefix(†)-06-(*)-VTU24 | Prefix-06-(*)-VTD24 | 24-15/16 | 49-7/8 | 25-13/16 | 51-5/8 | 27-1/8 | 54-3/16 | | |
| | 12 | Prefix(†)-12-(*)-VTU24 | Prefix-12-(*)-VTD24 | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-VTU24 | Prefix-18-(*)-VTD24 | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-VTU24 | Prefix-24-(*)-VTD24 | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-VTU24 | Prefix-30-(*)-VTD24 | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-VTU24 | Prefix-36-(*)-VTD24 | | | | | | | | |
| 36 | 6 | Prefix(†)-06-(*)-VTU36 | Prefix-06-(*)-VTD36 | 36-15/16 | 73-7/8 | 37-13/16 | 75-5/8 | 39-1/8 | 78-3/16 | | |
| | 12 | Prefix(†)-12-(*)-VTU36 | Prefix-12-(*)-VTD36 | | | | | | | | |
| | 18 | Prefix(†)-18-(*)-VTU36 | Prefix-18-(*)-VTD36 | | | | | | | | |
| | 24 | Prefix(†)-24-(*)-VTU36 | Prefix-24-(*)-VTD36 | | | | | | | | |
| | 30 | Prefix(†)-30-(*)-VTU36 | Prefix-30-(*)-VTD36 | | | | | | | | |
| | 36 | Prefix(†)-36-(*)-VTU36 | Prefix-36-(*)-VTD36 | | | | | | | | |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.
Includes 2 pairs of splice plates with hardware.

Fittings

Cable Support Fittings

Part Numbering System

SPUF 3 24 V CS 12

| | | | | |
|-------------------------------------|--------------------|-------|-----------------|----------------|
| Prefix ALUF, SPUF, SHUF, SSUF | Side rail depth | Width | Fitting Type | Nominal Radius |
|-------------------------------------|--------------------|-------|-----------------|----------------|

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pregalv.), SHUF (Hot-Dip Galv.), SSUF (Stainless Steel)

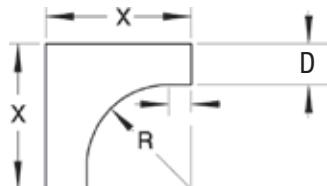
Inside Tray Widths: 6, 12, 18, 24, 30, 36

Nominal Radius: 12, 24, 36

Bottom Styles: V— Ventilated, S— Solid

Side Rail Depth: 2 in., 3 in., 6 in.

Cable Support Fittings



| Nominal Radius | Width | Cat. No. | Side Rail Depth "D" | | |
|----------------|-------|-----------------------|---------------------|--------|---------|
| | | | 2 in. | 3 in. | 6 in. |
| | | | X | | |
| 12 | 6 | Prefix(†)-06-(*)-CS12 | 13-7/8 | 15-5/8 | 18-3/16 |
| | 12 | Prefix(†)-12-(*)-CS12 | | | |
| | 18 | Prefix(†)-18-(*)-CS12 | | | |
| | 24 | Prefix(†)-24-(*)-CS12 | | | |
| | 30 | Prefix(†)-30-(*)-CS12 | | | |
| | 36 | Prefix(†)-36-(*)-CS12 | | | |
| 24 | 6 | Prefix(†)-06-(*)-CS24 | 25-7/8 | 27-5/8 | 30-3/16 |
| | 12 | Prefix(†)-12-(*)-CS24 | | | |
| | 18 | Prefix(†)-18-(*)-CS24 | | | |
| | 24 | Prefix(†)-24-(*)-CS24 | | | |
| | 30 | Prefix(†)-30-(*)-CS24 | | | |
| | 36 | Prefix(†)-36-(*)-CS24 | | | |
| 36 | 6 | Prefix(†)-06-(*)-CS36 | 37-7/8 | 39-5/8 | 42-3/16 |
| | 12 | Prefix(†)-12-(*)-CS36 | | | |
| | 18 | Prefix(†)-18-(*)-CS36 | | | |
| | 24 | Prefix(†)-24-(*)-CS36 | | | |
| | 30 | Prefix(†)-30-(*)-CS36 | | | |
| | 36 | Prefix(†)-36-(*)-CS36 | | | |

(†) Insert side rail depth. (*) Insert bottom style to complete CAT. NO.
Includes 1 pair of splice plates with hardware.

Covers

Straight Cover Number Selection

(ALUW12)SNC-3

| Material Prefix | Width | Bottom Type | Length |
|---|---------------|--------------------------------|---------------|
| ALUW • Aluminum | 06 • (6 in.) | SNC • Solid non-flanged cover | 3 •(3 meters) |
| SPW • Pregalvanized | 12 • (12 in.) | SFC • Solid flanged cover | |
| SHW • Hot-dipped galvanized after fabrication | 18 • (18 in.) | VFC • Ventilated flanged cover | |
| SSW • Stainless steel 316 | 24 • (24 in.) | PFC • Peaked flanged cover | |
| | 30 • (30 in.) | PVC • Peaked ventilated cover | |
| | 36 • (36 in.) | | |

* For SHW covers, maximum lengths are 72 in. and 1500 mm.

Fitting Cover Number Selection

(ALUW12)SNCHB9024

| Material Prefix | Width | Cover Type | Fitting Type | Degree* | Radius |
|---|---------------|--------------------------------|----------------------------|------------|---------------|
| ALUW • Aluminum | 06 • (6 in.) | SNC • Solid non-flanged cover | HB • Horizontal bend | 30 • (30°) | 12 • (12 in.) |
| SPW • Pregalvanized | 12 • (12 in.) | SFC • Solid flanged cover | HT • Horizontal tee | 45 • (45°) | 24 • (24 in.) |
| SHW • Hot-dipped galvanized after fabrication | 18 • (18 in.) | VFC • Ventilated flanged cover | HX • Horizontal cross | 60 • (60°) | 36 • (36 in.) |
| SSW • Stainless steel 316 | 24 • (24 in.) | | VI • Vertical inside bend | | |
| | 30 • (30 in.) | | VTU • Vertical tee down | | |
| | 36 • (36 in.) | | HYR • Horizontal wye right | | |
| | | | HYL • Horizontal wye left | | |

Note: Cover mounting hardware sold separately.

* Required for HB & VI only

Covers

Fitting Cover Number Selection (cont'd)

| (ALUW1812)SNCRT12 | | | | | |
|---|---------------|---------------|--------------------------------|-----------------------------------|---------------|
| Material Prefix | Width 1 | Width 2 | Cover Type | Fitting Type | Radius* |
| ALUW • Aluminum | 06 • (6 in.) | 06 • (6 in.) | SNC • Solid non-flanged cover | RT • Horizontal reduce tee | 12 • (12 in.) |
| SPW • Pregalvanized | 12 • (12 in.) | 12 • (12 in.) | SFC • Solid flanged cover | ET • Horizontal expand tee | 24 • (24 in.) |
| SHW • Hot-dipped galvanized after fabrication | 18 • (18 in.) | 18 • (18 in.) | VFC • Ventilated flanged cover | EX • Horizontal expand cross | 36 • (36 in.) |
| SSW • Stainless steel 316 | 24 • (24 in.) | 24 • (24 in.) | | HSR • Horizontal straight reducer | |
| | 30 • (30 in.) | 30 • (30 in.) | | HLR • Horizontal left reducer | |
| | 36 • (36 in.) | 36 • (36 in.) | | HRR • Horizontal right reducer | |

* Radius not required for HSR, HLR, HRR

Fitting Cover Number Selection

| (ALUW312)SNCVO9024 | | | | | | |
|---|------------------|---------------|--------------------------------|----------------------------|------------|---------------|
| Material Prefix | Side Rail Height | Width | Cover Type | Fitting Type | Degree* | Radius |
| ALUW • Aluminum | 2 • (2 in.) | 06 • (6 in.) | SNC • Solid non-flanged cover | VO • Vertical outside bend | 30 • (30°) | 12 • (12 in.) |
| SPW • Pregalvanized | 3 • (3-5/8 in.) | 12 • (12 in.) | SFC • Solid flanged cover | VTD • Vertical tee down | 45 • (45°) | 24 • (24 in.) |
| SHW • Hot-dipped galvanized after fabrication | 6 • (6 in.) | 18 • (18 in.) | VFC • Ventilated flanged cover | CS • Cable support | 60 • (60°) | 36 • (36 in.) |
| SSW • Stainless steel 316 | | 24 • (24 in.) | | | 90 • (90°) | |
| | | 30 • (30 in.) | | | | |
| | | 36 • (36 in.) | | | | |

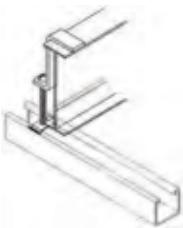
Note: Cover mounting hardware sold separately.

* Required for VO only

Covers

Accessories for Covers

Hold Down Clamp



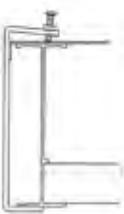
Designed to secure cable tray to support system.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|-----------------|------------------|
| (Prefix)-2-HDC | SPUW | 2 |
| (Prefix)-3-HDC | SSUW | 3 |
| (Prefix)-6-HDC | SHUW | 6 |

Covers

Accessories for Covers

Cover Clamp



Rigid cover clamp for flat and flanged covers.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|-----------------|------------------|
| (Prefix)-2-SCC | SPUW SSUW | 2 |
| (Prefix)-3-SCC | SPW | 3 |
| (Prefix)-6-SCC | SSW | 6 |

Heavy-Duty Cover Clamp



| Cat. No. | Material Prefix | Side Rail Height | Tray Width (in.) |
|-------------------|------------------------------|------------------|---------------------|
| (Prefix)-2-**-HCC | ALUW SHUW SPUW SSUW | 2 | 6 12 18 24 |
| (Prefix)-3-**-HCC | ALUW SHW | 3 | 30 36 |
| (Prefix)-6-**-HCC | SPW SSW | 6 | |

** Insert tray width

Splice Plates

Standard Splice Plate



Packaged in pairs with hardware. Kit Contents 8 bolts, 8 nuts, 8 washers 3/8 in. diameter.

Provided as standard with each straight and/or fitting.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|------------------------------|------------------|
| (Prefix)-2-SSP | ALUW SHUW SPUW SSUW | 2 |
| (Prefix)-3-SSP | ALUW SHW SPW | 3 |
| (Prefix)-6-SSP | SSW | 6 |

Expansion Splice Plate

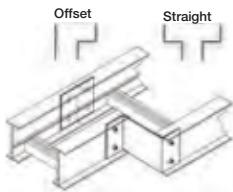


Allows for a 1 in. expansion or contraction of tray system.

Packaged in pairs with hardware. Kit Contents 8 bolts, 8 nuts, 8 washers 3/8 in. diameter.

| Cat. No. | Material Prefix | Side Rail Height |
|----------------|------------------------------|------------------|
| (Prefix)-2-ESP | ALUW SHUW SPUW SSUW | 2 |
| (Prefix)-3-ESP | ALUW SHW SPW | 3 |
| (Prefix)-6-ESP | SSW | 6 |

Reducing Splice



| Cat. No. | Material Prefix | Side Rail Height |
|-------------------|------------------------------|------------------|
| (Prefix)-2(*)-RSP | ALUW SHUW SPUW SSUW | 2 |
| (Prefix)-3(*)-RSP | ALUW SHW SPW | 3 |
| (Prefix)-6(*)-RSP | SSW | 6 |

*Note: For offset reduction: Insert width to be reduced.
For straight Reduction: Insert 1/2 width to be reduced (2 required)

Example: ALUW-603-RSP = 3 in. offset reducer

Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction. One per package with hardware. Kit Contents 8 bolts, 8 nuts, 8 washers 3/8 in. diameter.

Barrier Strips

Horizontal Barrier Strips



| Cat. No. | Material Prefix | Height (in.) | Length (in.) |
|-------------------|-------------------------------|--------------|--------------|
| (Prefix)-2-SB-3 | ALUW SPUW SHUW* SSUW | 2 | 3 m |
| (Prefix)-3-SB-3 | | 3 | |
| (Prefix)-6-SB-3 | | 6 | |
| (Prefix)-2-SBH-72 | | 2 | 72 in. |
| (Prefix)-3-SBH-72 | | 3 | |
| (Prefix)-6-SBH-72 | | 6 | |

NOTE: 72 in. barriers provided with 3 SPW10SCR, 3 m barriers provided with 6 SPW10SCR

*Available in 1500 mm only.

Barrier strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or barrier strip clamps (sold separately).

72 in. barriers are flexible for use with horizontal fittings.

Vertical Barriers Strips



Preformed to fit all standard steel vertical bends.
Provided with hardware

| Inside Bend Cat. No. | Outside Bend Cat. No. | Material Prefix | Height (in.) | Angle | Radius |
|-------------------------|-----------------------|-------------------------------|--------------|-------|--------|
| (Prefix)-2-VIB-(*)-(**) | Prefix-2-VOB-(*)-(**) | ALUW SPUW SHUW† SSUW | 2 | 90 | 12 |
| (Prefix)-3-VIB-(*)-(**) | Prefix-3-VOB-(*)-(**) | | 3 | 60 | 24 |
| (Prefix)-6-VIB-(*)-(**) | Prefix-6-VOB-(*)-(**) | | 6 | 30 | 36 |
| | | | | 45 | |

(*) Insert angle (***) Insert radius. †Available in 1500 mm only.

Barrier Strip Clamp



Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms. Complete mounting hardware supplied.

| Cat. No. | Material |
|----------|---------------------|
| SPW-BSC | Zinc plated steel |
| SSW-BSC | Stainless steel 316 |

Barrier Strip Splice

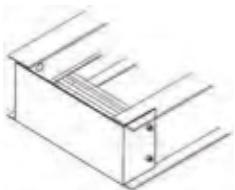


| Cat. No. | Material Prefix |
|----------|-----------------|
| ABW-BSS | SPW SPW |

Alignment splice for joining connecting barrier strips.

Accessories

Closure End Plate



| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|-------------------|------------------------------|------------------------|---------------------|
| (Prefix)-2-**-CEP | ALUW SPUW SHUW SSUW | 2 | 6 12 18 24 |
| (Prefix)-3-**-CEP | ALUW SPW SHW | 3 | 30 |
| (Prefix)-6-**-CEP | SSW | 6 | 36 |

** Insert tray width

Provides closure for any tray end. Hardware included.

Drop Out



Designed to provide a smooth radius surface at any position on the tray or trough bottom.

Drop outs are easily attached using hardware provided.
Standard Radius = 4 in.

| Cat. No. | Material Prefix | Width (in.) |
|-----------------|---------------------------|---------------------------------|
| (Prefix)-**-DOS | ALUW SPW SSW SHW | 6 12 18 24 30 36 |

** Insert tray width

Steel Tray Hardware



| Cat. No. | Material | Description |
|--------------|-------------------|----------------------------------|
| SPW-1/4-CB | Zinc plated steel | 1/4 in. carriage bolt |
| SPW-3/8-CB | | 3/8 in. carriage bolt |
| SPW-1/4-HN | | 1/4 in. serrated flange nuts |
| SPW-3/8-HN | | 3/8 in. serrated flange nuts |
| SSW-3/8-CB | 316 stainless | 3/8 in. carriage bolt |
| SSW-3/8-HN | | 3/8 in. hex. nut |
| SSW-3/8-HWK* | | 316 stainless steel hardware kit |

Hardware kit

* Contains 8 serrated flange nuts, 8 bolts, 8 lock washers.

Square shoulder self-positioning carriage bolt.

Accessories

Horizontal Adjustable Plate



Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished as a kit with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|--------------------|-----------------|------------------------|------------------|
| (Prefix)-(*)06-HAP | | | 6 |
| (Prefix)-(*)08-HAP | | | 8 |
| (Prefix)-(*)12-HAP | | | 12 |
| (Prefix)-(*)18-HAP | | 3 | 18 |
| (Prefix)-(*)24-HAP | | 6 | 24 |
| (Prefix)-(*)30-HAP | | | 30 |
| (Prefix)-(*)36-HAP | | | 36 |

(*) Insert side rail height

Vertical Adjustable Plate



Adjustable hinge plates provide maximum horizontal installation flexibility elevation changes. Furnished as a kit with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|-------------------|-----------------|------------------------|------------------|
| (Prefix)-2-**-VSP | | 2 | 6 |
| (Prefix)-3-**-VSP | | 3 | 12 |
| (Prefix)-6-**-VSP | | 6 | 18 |
| | | | 24 |
| | | | 30 |
| | | | 36 |

(**) Insert width

Horizontal Tee Branch



| Cat. No. | Material Prefix | Side Rail Height (in.) | Tray Width (in.) |
|---------------------|-----------------|------------------------|------------------|
| (Prefix)-2-(**)-HTB | | 2 | 6 |
| (Prefix)-3-(**)-HTB | | 3 | 12 |
| (Prefix)-6-(**)-HTB | | 6 | 18 |
| | | | 24 |
| | | | 30 |
| | | | 36 |

(**) Insert width

Box to Tray Plates



Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

| Cat. No. | Material Prefix | Side Rail Height (in.) |
|----------------|------------------------------|------------------------|
| (Prefix)-2-BSP | ALUW SPUW SHUW SSUW | 2 |
| (Prefix)-3-BSP | ALUW SPW SHW SSW | 3 |
| (Prefix)-6-BSP | | 6 |

Selection Guide

.....

In order to ensure that your channel tray installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to 4 steps.

1. Material Choice

- Aluminum
- Pregalvanized
- Hot-dipped
- Stainless steel
- Coatings
- Other

2. Type of Tray Bottom

- Ventilated
- Solid

3. T&B Channel Tray Width

- 1.5 in.
- 3 in.
- 4 in.
- 6 in.

4. Fittings Selection

- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal tees and crosses
- Vertical bends (90°, 60°, 45° and 30°)

Each step is explained in detail on the following pages.

Selection Guide

1. Material Choice

T&B Channel Tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages A8 to A32) for further explanation.

2. Type of Channel Tray Bottom

Cable Channel

Thomas & Betts offers cable channel in solid or ventilated straight sections.

Ventilated channel has burr free oblong punched holes for easy access.

Ty-Rap® slots are provided between each opening for securing of cable.

Thomas & Betts channel tray meets NEMA VE-1 / CSA C22.22.



3. Select Channel Tray Width

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6 inches.

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

4. Select the Fittings

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12 in., 24 in. or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 inches.

Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, or adjustable elbows can be used. It may be necessary to add supports to the tray at these points.

Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.

Straight Lengths

How to create Straight Section part numbers

1. Select the material
2. Select nominal width of tray
3. Select the bottom type
4. The last number is the length of the channel tray

Example:

ALTC04V-3

- Aluminum
- 4 in. wide
- Ventilated bottom
- 10 ft. length



Ventilated Channel



Solid Channel

Straight Section Number Selection

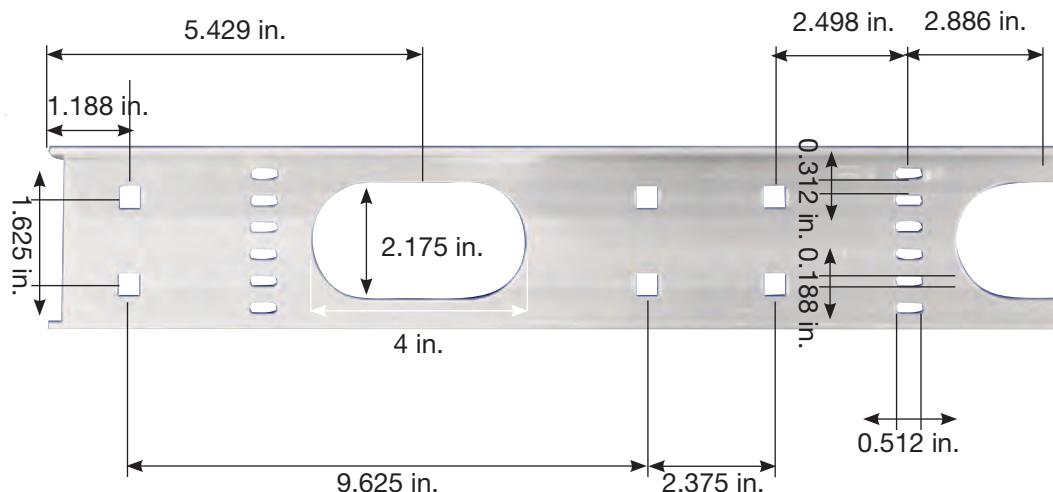


(ALT) C 04 V-3

| Material Prefix | Series | Type | Width | Bottom Style | Length |
|---|-------------------|----------------------|--|---|--------------|
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • 316 Stainless steel | T • Cable channel | C • Straight Section | 01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.) | S • Solid trough V • Ventilated trough | 3 • (10 ft.) |

Straight Lengths

Solid and Ventilated



Bottom view of ventilated Channel Tray larger than 1.5 in. wide

Part Numbering System

ALT C 04 V-3

| | | | | |
|----------|------|-------|--------|--------------|
| Material | Type | Width | Bottom | Length style |
| Series | | Width | | Length style |

Selection Guide

Prefix: ALT(Alum.), SPT(Pregalv.), SHT(Hot-Dipped Galv.) SST(Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
Bottom Styles: **V**- Ventilated, **S**- Solid



Straight Lengths

Solid and Ventilated Bottom

Solid: Steel - roll formed steel, aluminum - extruded material.

Ventilated: Pre-punched burr free oblong holes with Ty-Rap® slots between each opening.

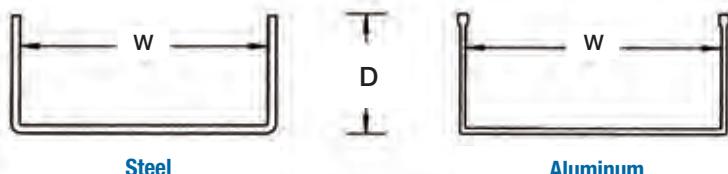
Accessories: One connector complete with hardware supplied with each length.

Material: Aluminum-6063-T6

Pregalvanized

Hot-dipped galvanized

316 Stainless Steel



| Aluminum Solid | Channel Width (W) | Depth (D) | Support Span (Feet) | | | | |
|---|-------------------|-----------|---------------------|-------|-------|-------|-------|
| | | | | 2 | 4 | 6 | 8 |
| ALTC | 1.5 in. | 3/4 in. | Load (lb./ft.) | 47.5 | 11.9 | 5.4 | 3.0 |
| | | | Deflection (in.) | 0.170 | 0.680 | 0.745 | 1.325 |
| | 3 in. | 1-3/8 in. | Load (lb./ft.) | 362.5 | 90.6 | 40.3 | 22.7 |
| | | | Deflection (in.) | 0.083 | 0.330 | 0.743 | 1.322 |
| ALTC | 4 in. | 1-5/8 in. | Load (lb./ft.) | 580.0 | 145.0 | 64.4 | 36.3 |
| | | | Deflection (in.) | 0.065 | 0.260 | 0.585 | 1.041 |
| | 6 in. | 1-3/4 in. | Load (lb./ft.) | 607.5 | 151.9 | 67.5 | 38.0 |
| | | | Deflection (in.) | 0.061 | 0.244 | 0.550 | 0.977 |
| 1.9 2.070 17.0 2.065 24.0 1.626 25.0 1.527 | | | | | | | |

| Aluminum Ventilated | Channel Width (W) | Depth (D) | Support Span (Feet) | | | | |
|---|-------------------|-----------|---------------------|-------|-------|-------|-------|
| | | | | 2 | 4 | 6 | 8 |
| ALTC | 1.5 in. | 3/4 in. | Load (lb./ft.) | 47.5 | 11.9 | 5.4 | 3.0 |
| | | | Deflection (in.) | 0.170 | 0.680 | 0.745 | 1.325 |
| | 3 in. | 1-3/8 in. | Load (lb./ft.) | 300.0 | 75.0 | 33.3 | 18.8 |
| | | | Deflection (in.) | 0.100 | 0.400 | 0.900 | 1.600 |
| ALTC | 4 in. | 1-5/8 in. | Load (lb./ft.) | 525.0 | 131.3 | 58.3 | 32.8 |
| | | | Deflection (in.) | 0.074 | 0.295 | 0.664 | 1.181 |
| | 6 in. | 1-3/4 in. | Load (lb./ft.) | 580.0 | 145.0 | 64.4 | 36.3 |
| | | | Deflection (in.) | 0.065 | 0.261 | 0.587 | 1.044 |
| 1.9 2.070 14.0 2.500 19.0 1.846 21.0 1.631 | | | | | | | |

| Steel Solid | Channel Width (W) | Depth (D) | Support Span (Feet) | | | | |
|---|-------------------|-----------|---------------------|-------|-------|-------|-------|
| | | | | 2 | 4 | 6 | 8 |
| SPTC SHTC SSTC | 1.5 in. | 3/4 in. | Load (lb./ft.) | 97.5 | 24.4 | 10.8 | 6.1 |
| | | | Deflection (in.) | 0.045 | 0.181 | 0.408 | 0.725 |
| | 3 in. | 1-3/8 in. | Load (lb./ft.) | 252.0 | 63.0 | 28.0 | 15.8 |
| | | | Deflection (in.) | 0.034 | 0.134 | 0.302 | 0.538 |
| SPTC SHTC SSTC | 4 in. | 1-5/8 in. | Load (lb./ft.) | 408.0 | 102.0 | 45.3 | 25.5 |
| | | | Deflection (in.) | 0.026 | 0.105 | 0.237 | 0.421 |
| | 6 in. | 1-3/4 in. | Load (lb./ft.) | 432.0 | 108.0 | 48.0 | 27.0 |
| | | | Deflection (in.) | 0.024 | 0.096 | 0.217 | 0.386 |
| 3.9 1.133 17.0 0.840 24.0 0.658 25.0 0.603 | | | | | | | |

| Steel Ventilated | Channel Width (W) | Depth (D) | Support Span (Feet) | | | | |
|---|-------------------|-----------|---------------------|-------|-------|-------|-------|
| | | | | 2 | 4 | 6 | 8 |
| SPTC SHTC SSTC | 1.5 in. | 3/4 in. | Load (lb./ft.) | 97.5 | 24.4 | 10.8 | 6.1 |
| | | | Deflection (in.) | 0.045 | 0.181 | 0.408 | 0.725 |
| | 3 in. | 1-3/8 in. | Load (lb./ft.) | 207.0 | 51.8 | 23.0 | 12.9 |
| | | | Deflection (in.) | 0.041 | 0.163 | 0.366 | 0.652 |
| SPTC SHTC SSTC | 4 in. | 1-5/8 in. | Load (lb./ft.) | 363.0 | 90.8 | 40.3 | 22.7 |
| | | | Deflection (in.) | 0.030 | 0.119 | 0.269 | 0.477 |
| | 6 in. | 1-3/4 in. | Load (lb./ft.) | 405.0 | 101.3 | 45.0 | 25.3 |
| | | | Deflection (in.) | 0.027 | 0.106 | 0.239 | 0.425 |
| 3.9 1.133 14.0 1.018 19.0 0.746 21.0 0.664 | | | | | | | |

Fittings

How to create fitting part numbers

1. Select fitting material
2. Select nominal width of fitting
3. Select type of fitting
4. Select degree of angle if required
5. Select radius

Example:

ALTF04SHB4512

- Aluminum
- 4 in. wide
- Horizontal bend
- 45° degree
- 12 in. radius



Horizontal Cross



90° Horizontal Bend

Fittings Number Selection



| (ALT) F 04 S HB 45 12 | | | | | | | | |
|---|-------------------|-------------|--|------------------|---|--|---|--|
| Material Prefix | Series | Type | Width | Bottom Style | Fitting Type | Degree* | Radius | |
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • 316 Stainless steel | T • Cable channel | F • Fitting | 01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.) | S • Solid trough | HB • Horizontal bend HT • Horizontal tee HX • Horizontal cross VO • Vertical outside bend VI • Vertical inside bend | 30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°) | 12 • 12 in. 24 • 24 in. 0 • Zero radius | |

*Required for HB, VI & VO only.

Fittings

90° Horizontal Bends

Part Numbering System

ALT F 06 S HB 90 24

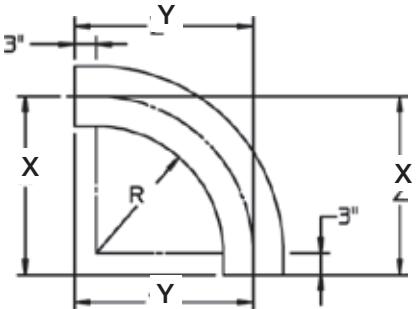
Material Fitting Width Bottom style Fitting type Angle Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
Bottom Style: S– Solid



90° Horizontal Bend



| Radius (in.) | Width (in.) | Cat. No.* | Dimensions (in.) | |
|--------------|-------------|-------------------------|------------------|--------|
| | | | X | Y |
| 12 | 1.5 | (Prefix)-F 01-S-HB90-12 | 15-3/4 | 15-3/4 |
| | 3 | (Prefix)-F 03-S-HB90-12 | 16-1/2 | 16-1/2 |
| | 4 | (Prefix)-F 04-S-HB90-12 | 17 | 17 |
| | 6 | (Prefix)-F 06-S-HB90-12 | 18 | 18 |
| 24 | 1.5 | (Prefix)-F 01-S-HB90-24 | 27-3/4 | 27-3/4 |
| | 3 | (Prefix)-F 03-S-HB90-24 | 28-1/2 | 28-1/2 |
| | 4 | (Prefix)-F 04-S-HB90-24 | 29 | 29 |
| | 6 | (Prefix)-F 06-S-HB90-24 | 30 | 30 |

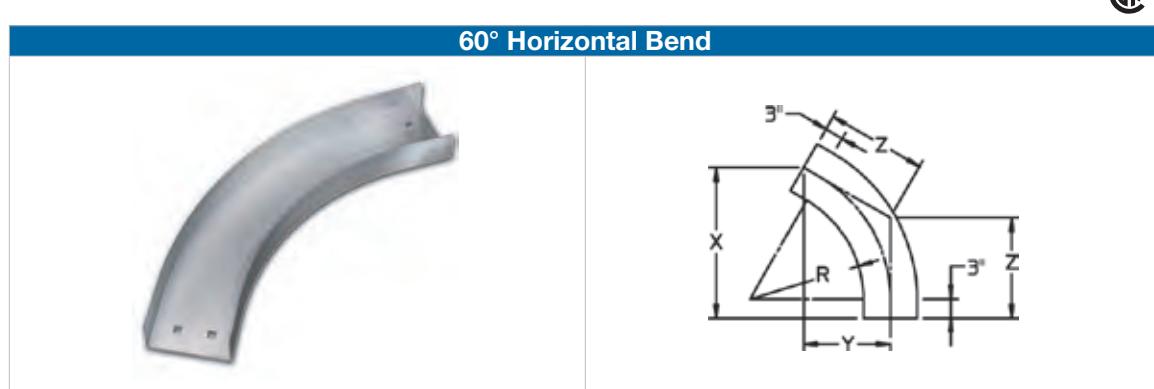
*Specify prefixes ALT, SPT, SHT or SST

Fittings

60° Horizontal Bends

| Part Numbering System | | | | | |
|-----------------------|---|---|---------|-------|--------------|
| S | P | T | F | 03 | S |
| Material | | | Fitting | Width | Bottom style |
| | | | | | Fitting type |
| | | | | | Angle |
| | | | | | Radius |

| Selection Guide |
|---|
| Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel) |
| Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in. |
| Bottom Style: S– Solid |



| Radius (in.) | Width (in.) | Cat. No. | Dimensions (in.) | | |
|--------------|-------------|-------------------------|------------------|--------|----------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-HB60-12 | 15-1/2 | 9 | 10-1/4 |
| | 3 | (Prefix)-F 03-S-HB60-12 | 16-3/16 | 9-3/8 | 10-13/16 |
| | 4 | (Prefix)-F 04-S-HB60-12 | 16-5/8 | 9-5/8 | 11-1/16 |
| | 6 | (Prefix)-F 06-S-HB60-12 | 17-1/2 | 10-1/8 | 11-11/16 |
| 24 | 1.5 | (Prefix)-F 01-S-HB60-24 | 26 | 15 | 17-1/4 |
| | 3 | (Prefix)-F 03-S-HB60-24 | 26-9/16 | 15-3/8 | 17-3/4 |
| | 4 | (Prefix)-F 04-S-HB60-24 | 27 | 15-5/8 | 18 |
| | 6 | (Prefix)-F 06-S-HB60-24 | 27-7/8 | 16-1/8 | 18-9/16 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

45° Horizontal Bends

Part Numbering System

SPT F 03 S HB 45 24

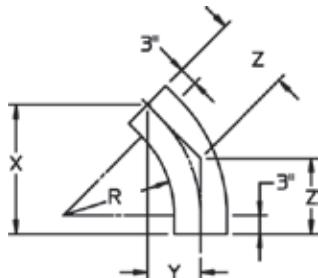
Material Fitting Width Bottom style Fitting type Angle Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
Bottom Style: S– Solid



45° Horizontal Bend



| Radius (in.) R | Width (in.) W | Cat. No. | Dimensions (in.) | | |
|--------------------------|-------------------------|-------------------------|------------------|--------|---------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-HB45-12 | 14-1/8 | 5-7/8 | 8-1/4 |
| | 3 | (Prefix)-F 03-S-HB45-12 | 14-11/16 | 6-1/16 | 8-9/16 |
| | 4 | (Prefix)-F 04-S-HB45-12 | 15 | 6-1/4 | 8-13/16 |
| | 6 | (Prefix)-F 06-S-HB45-12 | 15-3/4 | 6-1/2 | 9-3/16 |
| 24 | 1.5 | (Prefix)-F 01-S-HB45-24 | 22-5/8 | 9-3/8 | 13-1/4 |
| | 3 | (Prefix)-F 03-S-HB45-24 | 23-1/8 | 9-9/16 | 13-9/16 |
| | 4 | (Prefix)-F 04-S-HB45-24 | 23-1/2 | 9-3/4 | 13-3/4 |
| | 6 | (Prefix)-F 06-S-HB45-24 | 24-3/16 | 10 | 14-3/16 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

30° Horizontal Bends

Part Numbering System

ALT F 06 S HB 30 24

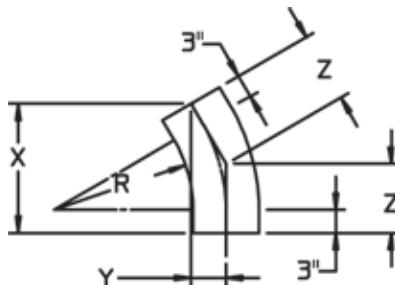
| | | | | | | |
|----------|---------|-------|--------------|--------------|-------|--------|
| Material | Fitting | Width | Bottom style | Fitting type | Angle | Radius |
|----------|---------|-------|--------------|--------------|-------|--------|

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
Bottom Style: S– Solid



30° Horizontal Bend



| Radius (in.) | Width (in.) | Cat. No. | Dimensions (in.) | | |
|--------------|-------------|-------------------------|------------------|---------|---------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-HB30-12 | 12 | 3-1/4 | 6-1/2 |
| | 3 | (Prefix)-F 03-S-HB30-12 | 12-3/8 | 3-5/16 | 6-5/8 |
| | 4 | (Prefix)-F 04-S-HB30-12 | 12-5/8 | 3-3/8 | 6-3/4 |
| | 6 | (Prefix)-F 06-S-HB30-12 | 13-1/8 | 3-1/2 | 7 |
| 24 | 1.5 | (Prefix)-F 01-S-HB30-24 | 18 | 4-3/4 | 9-5/8 |
| | 3 | (Prefix)-F 03-S-HB30-24 | 18-3/8 | 4-15/16 | 9-13/16 |
| | 4 | (Prefix)-F 04-S-HB30-24 | 18-5/8 | 5 | 9-15/16 |
| | 6 | (Prefix)-F 06-S-HB30-24 | 19-1/8 | 5-1/8 | 10-1/4 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

Horizontal Tees

Part Numbering System

SST F 04 S HT 24

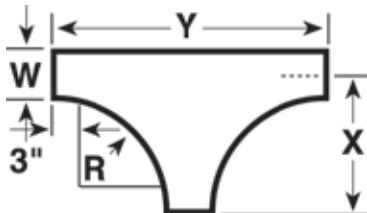
Material Fitting Width Bottom style Fitting type Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
Bottom Style: S– Solid



Horizontal Tee



| Radius (in.) | Width (in.) | Cat. No. | Dimensions (in.) | |
|--------------|-------------|-----------------------|------------------|--------|
| | | | X | Y |
| 12 | 1.5 | (Prefix)-F 01-S-HT-12 | 15-3/4 | 31-1/2 |
| | 3 | (Prefix)-F 03-S-HT-12 | 16-1/2 | 33 |
| | 4 | (Prefix)-F 04-S-HT-12 | 17 | 34 |
| | 6 | (Prefix)-F 06-S-HT-12 | 18 | 36 |
| 24 | 1.5 | (Prefix)-F 01-S-HT-24 | 27-3/4 | 55-1/2 |
| | 3 | (Prefix)-F 03-S-HT-24 | 28-1/2 | 57 |
| | 4 | (Prefix)-F 04-S-HT-24 | 29 | 58 |
| | 6 | (Prefix)-F 06-S-HT-24 | 30 | 60 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

Horizontal Crosses

Part Numbering System

ALT F 04 S HX 24

Material Fitting Width Bottom style Fitting type Radius

Selection Guide

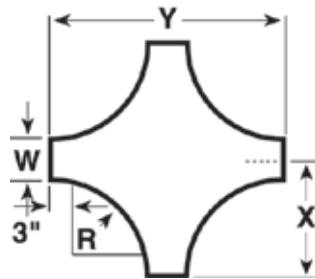
Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)

Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Bottom Style: S– Solid



Horizontal Cross



| Radius (in.) R | Width (in.) W | Cat. No. | Dimensions (in.) | |
|-------------------|------------------|-----------------------|------------------|--------|
| | | | X | Y |
| 12 | 1.5 | (Prefix)-F 01-S-HX-12 | 15-3/4 | 31-1/2 |
| | 3 | (Prefix)-F 03-S-HX-12 | 16-1/2 | 33 |
| | 4 | (Prefix)-F 04-S-HX-12 | 17 | 34 |
| | 6 | (Prefix)-F 06-S-HX-12 | 18 | 36 |
| 24 | 1.5 | (Prefix)-F 01-S-HX-24 | 27-3/4 | 55-1/2 |
| | 3 | (Prefix)-F 03-S-HX-24 | 28-1/2 | 57 |
| | 4 | (Prefix)-F 04-S-HX-24 | 29 | 58 |
| | 6 | (Prefix)-F 06-S-HX-24 | 30 | 60 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

90° Vertical Bends – Outside and Inside

Part Numbering System

SPT F 06 S VO 90 24

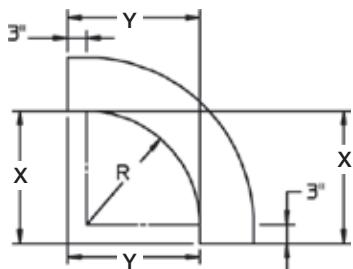
Material Fitting Width Bottom style Fitting type Angle Radius

Selection Guide

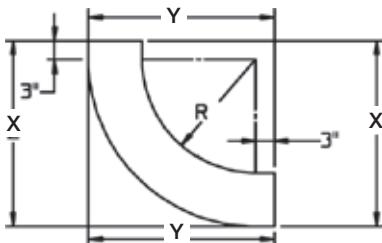
Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Style: S–Solid



Vertical Outside



Vertical Inside



90° Vertical Outside BEND

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | |
|-------------------|------------------|-------------------------|------------------|----|
| | | | X | Y |
| 12 | 1.5 | (Prefix)-F 01-S-V090-12 | 15 | 15 |
| | 3 | (Prefix)-F 03-S-V090-12 | 15 | 15 |
| | 4 | (Prefix)-F 04-S-V090-12 | 15 | 15 |
| | 6 | (Prefix)-F 06-S-V090-12 | 15 | 15 |
| 24 | 1.5 | (Prefix)-F 01-S-V090-24 | 15 | 15 |
| | 3 | (Prefix)-F 03-S-V090-24 | 27 | 27 |
| | 4 | (Prefix)-F 04-S-V090-24 | 27 | 27 |
| | 6 | (Prefix)-F 06-S-V090-24 | 27 | 27 |

*Specify prefixes ALT, SPT, SHT or SST

90° Vertical Inside BEND

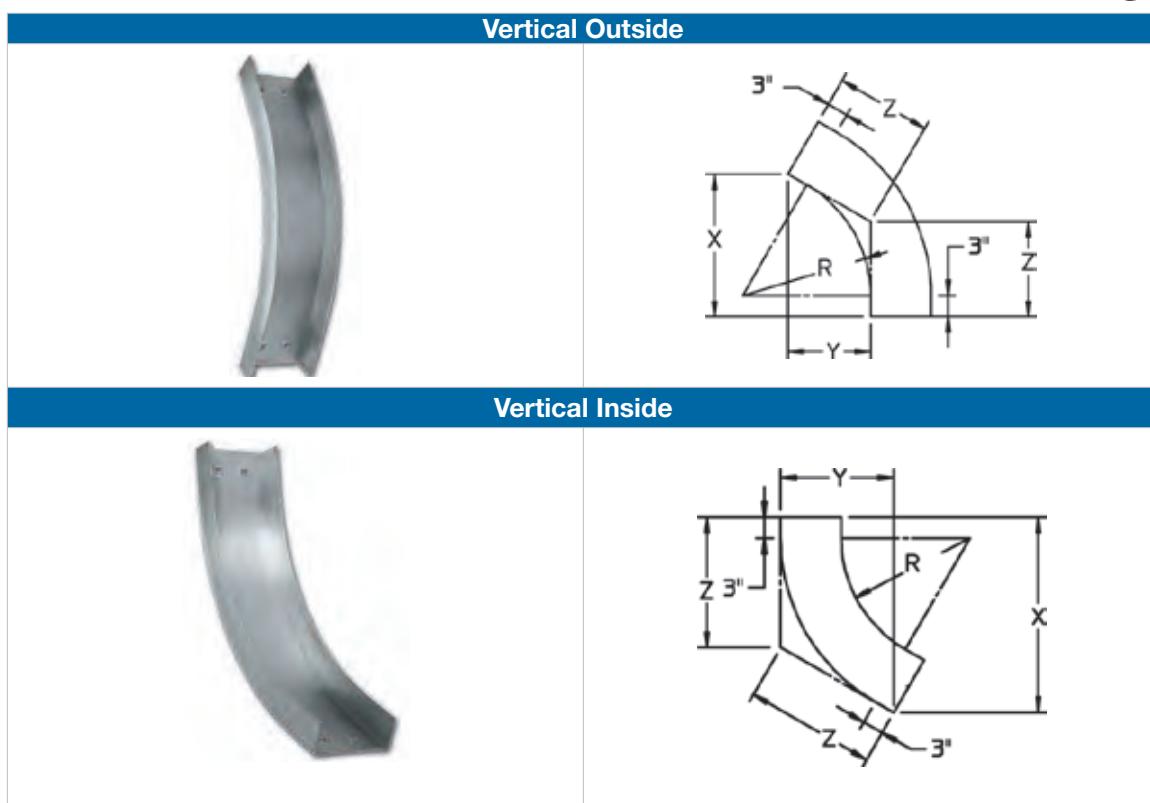
| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | |
|-------------------|------------------|-------------------------|------------------|--------|
| | | | X | Y |
| 12 | 1.5 | (Prefix)-F 01-S-VI90-12 | 15-3/4 | 15-3/4 |
| | 3 | (Prefix)-F 03-S-VI90-12 | 16-1/2 | 16-1/2 |
| | 4 | (Prefix)-F 04-S-VI90-12 | 16-7/8 | 16-7/8 |
| | 6 | (Prefix)-F 06-S-VI90-12 | 16-7/8 | 16-7/8 |
| 24 | 1.5 | (Prefix)-F 01-S-VI90-24 | 27-3/4 | 27-3/4 |
| | 3 | (Prefix)-F 03-S-VI90-24 | 28-1/2 | 28-1/2 |
| | 4 | (Prefix)-F 04-S-VI90-24 | 28-7/8 | 28-7/8 |
| | 6 | (Prefix)-F 06-S-VI90-24 | 28-7/8 | 28-7/8 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

60° Vertical Bends – Outside and Inside

| Part Numbering System | | | | | Selection Guide |
|----------------------------|--|--|--|--|---|
| SST F 04 S VI 60 24 | | | | | Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel) Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in. Bottom Style: S–Solid |



| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|--------|--------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-V060-12 | 14-7/8 | 8-5/8 | 9-7/8 |
| | 3 | (Prefix)-F 03-S-V060-12 | 14-7/8 | 8-5/8 | 9-7/8 |
| | 4 | (Prefix)-F 04-S-V060-12 | 14-7/8 | 8-5/8 | 9-7/8 |
| | 6 | (Prefix)-F 06-S-V060-12 | 14-7/8 | 8-5/8 | 9-7/8 |
| 24 | 1.5 | (Prefix)-F 01-S-V060-24 | 25-1/4 | 14-5/8 | 16-7/8 |
| | 3 | (Prefix)-F 03-S-V060-24 | 25-1/4 | 14-5/8 | 16-7/8 |
| | 4 | (Prefix)-F 04-S-V060-24 | 25-1/4 | 14-5/8 | 16-7/8 |
| | 6 | (Prefix)-F 06-S-V060-24 | 25-1/4 | 14-5/8 | 16-7/8 |

*Specify prefixes ALT, SPT, SHT or SST

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|--------|--------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-VI60-12 | 15-1/2 | 9 | 10-1/4 |
| | 3 | (Prefix)-F 03-S-VI60-12 | 16-1/8 | 9-1/4 | 10-3/4 |
| | 4 | (Prefix)-F 04-S-VI60-12 | 16-1/4 | 9-3/8 | 10-7/8 |
| | 6 | (Prefix)-F 06-S-VI60-12 | 16-3/8 | 9-1/2 | 11 |
| 24 | 1.5 | (Prefix)-F 01-S-VI60-24 | 26 | 15 | 17-1/4 |
| | 3 | (Prefix)-F 03-S-VI60-24 | 26-1/2 | 15-1/4 | 17-5/8 |
| | 4 | (Prefix)-F 04-S-VI60-24 | 26-3/4 | 15-3/8 | 17-3/4 |
| | 6 | (Prefix)-F 06-S-VI60-24 | 26-3/4 | 15-1/2 | 17-7/8 |

*Specify prefixes ALT, SPT, SHT or SST

Fittings

45° Vertical Bends – Outside and Inside

Part Numbering System

SST F 04 S VI 45 24

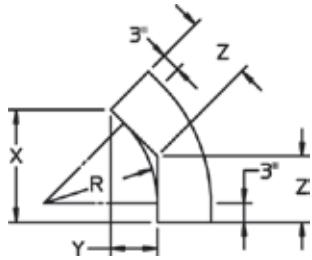
Material Fitting Width Bottom style Fitting type Angle Radius

Selection Guide

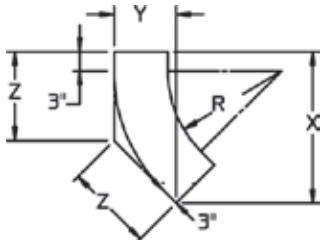
Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Style: S– Solid



Vertical Outside



Vertical Inside



45° Vertical Outside BEND

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|-------|--------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-V045-12 | 13-5/8 | 5-5/8 | 8 |
| | 3 | (Prefix)-F 03-S-V045-12 | 13-5/8 | 5-5/8 | 8 |
| | 4 | (Prefix)-F 04-S-V045-12 | 13-5/8 | 5-5/8 | 8 |
| | 6 | (Prefix)-F 06-S-V045-12 | 13-5/8 | 5-5/8 | 8 |
| 24 | 1.5 | (Prefix)-F 01-S-V045-24 | 22-1/8 | 9-1/8 | 12-7/8 |
| | 3 | (Prefix)-F 03-S-V045-24 | 22-1/8 | 9-1/8 | 13 |
| | 4 | (Prefix)-F 04-S-V045-24 | 11 | 11 | 13 |
| | 6 | (Prefix)-F 06-S-V045-24 | 11 | 11 | 13 |

45° Vertical Inside BEND

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|-------|--------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-VI45-12 | 13-5/8 | 5-5/8 | 8 |
| | 3 | (Prefix)-F 03-S-VI45-12 | 13-5/8 | 5-5/8 | 8 |
| | 4 | (Prefix)-F 04-S-VI45-12 | 13-5/8 | 5-5/8 | 8 |
| | 6 | (Prefix)-F 06-S-VI45-12 | 13-5/8 | 5-5/8 | 8 |
| 24 | 1.5 | (Prefix)-F 01-S-VI45-24 | 22-1/8 | 9-1/8 | 12-7/8 |
| | 3 | (Prefix)-F 03-S-VI45-24 | 22-1/8 | 9-1/8 | 13 |
| | 4 | (Prefix)-F 04-S-VI45-24 | 11 | 11 | 13 |
| | 6 | (Prefix)-F 06-S-VI45-24 | 11 | 11 | 13 |

*Specify prefixes ALT, SPT, SHT or SST

*Specify prefixes ALT, SPT, SHT or SST

Fittings

30° Vertical Bends – Outside and Inside

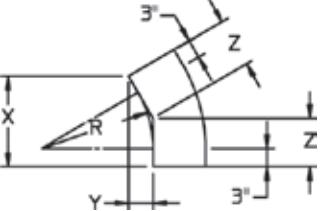
| Part Numbering System | | | | | |
|-----------------------|---------|-------|--------------|--------------|-------------|
| S | P | T | F | 06 | S V O 30 24 |
| Material | Fitting | Width | Bottom style | Fitting type | Angle |

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Style: S– Solid



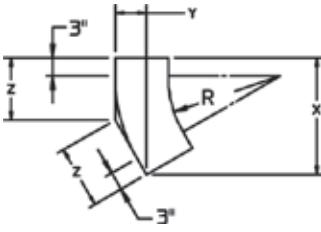
Vertical Outside





Vertical Inside





30° Vertical Outside BEND

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|-------|-------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-V030-12 | 10-1/8 | 1-7/8 | 5-1/4 |
| | 3 | (Prefix)-F 03-S-V030-12 | 11-5/8 | 3-1/8 | 6-1/8 |
| | 4 | (Prefix)-F 04-S-V030-12 | 11-5/8 | 3-1/8 | 6-1/8 |
| | 6 | (Prefix)-F 06-S-V030-12 | 11-5/8 | 3-1/8 | 6-1/8 |
| 24 | 1.5 | (Prefix)-F 01-S-V030-24 | 17-5/8 | 4-3/4 | 9-1/2 |
| | 3 | (Prefix)-F 03-S-V030-24 | 17-5/8 | 4-3/4 | 9-1/4 |
| | 4 | (Prefix)-F 04-S-V030-24 | 17-5/8 | 4-3/4 | 9-1/4 |
| | 6 | (Prefix)-F 06-S-V030-24 | 17-5/8 | 4-3/4 | 9-1/4 |

*Specify prefixes ALT, SPT, SHT or SST

30° Vertical Inside BEND

| Radius R (in.) | Width W (in.) | Cat. No. | Dimensions (in.) | | |
|-------------------|------------------|-------------------------|------------------|-------|-------|
| | | | X | Y | Z |
| 12 | 1.5 | (Prefix)-F 01-S-VI30-12 | 10-3/8 | 1-7/8 | 5-3/8 |
| | 3 | (Prefix)-F 03-S-VI30-12 | 12-1/4 | 3-1/2 | 6-3/8 |
| | 4 | (Prefix)-F 04-S-VI30-12 | 12-3/8 | 3-3/8 | 5-5/8 |
| | 6 | (Prefix)-F 06-S-VI30-12 | 12-1/2 | 3-3/8 | 5-5/8 |
| 24 | 1.5 | (Prefix)-F 01-S-VI30-24 | 18 | 4-3/4 | 9-5/8 |
| | 3 | (Prefix)-F 03-S-VI30-24 | 18-1/4 | 4-7/8 | 9-3/4 |
| | 4 | (Prefix)-F 04-S-VI30-24 | 18-3/8 | 4-7/8 | 9-7/8 |
| | 6 | (Prefix)-F 06-S-VI30-24 | 18-1/2 | 5 | 9-7/8 |

*Specify prefixes ALT, SPT, SHT or SST

Covers

Cover Selection Guide

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight Covers

These covers provide maximum mechanical protection for cables with limited heat build up.

Flanged covers have 1/2 in. flange.



Note: Cover mounting hardware must be ordered separately.

Straight Cover Number Selection



(ALT) F 03 SFC 3

| Material Prefix | Series Prefix | Type | Width | Bottom Style | Length |
|---|-------------------|-----------------------------------|--|----------------------------|--------------|
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • 316 Stainless steel | T • Cable channel | Accessory i.e.: Straight cover | 01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.) | SFC • Solid flanged covers | 3 • (10 ft.) |

*Hot-dipped galvanized covers only available in 1500 mm lengths

Quantity of Standard Cover Clamps Required

| | |
|--|--------|
| Straight section (10 ft.) | 6 pcs. |
| Note: When using the heavy-duty cover clamps, only half the quantity of pieces are required. | |

Covers

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Fitting Covers

Fitting covers are available to complete your cable channel layout.

All fitting covers are flanged.



Note: Cover mounting hardware must be ordered separately.

Fittings Number Selection



| (ALT) F 06 HBC 45 12 | | | | | | |
|---|-------------------|-------------------|--|--|--|--|
| Material Prefix | Series Prefix | Type | Width | Type Cover | Degree* | Radius |
| AL • Aluminum SP • Pregalvanized SH • Hot-dipped galvanized SS • 316 Stainless steel | T • Cable channel | F • Fitting cover | 01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.) | HBC • Horizontal bend HTC • Horizontal tee HXC • Horizontal cross VOC • Vertical outside bend VIC • Vertical inside bend | 30 • 30° 45 • 45° 60 • 60° 90 • 90° | 12 • 12 in. 24 • 24 in. 0 • Zero† radius †Contact your Regional Sales Office for availability |

*Required for HB, VI & VO only.

Quantity of Standard Cover Clamps Required

| | |
|--|----------------------------|
| Horizontal and vertical bends Tees Crosses | 4 pcs. 6 pcs. 8 pcs. |
|--|----------------------------|

Note: When using the heavy-duty cover clamps, only half the quantity of pieces are required.

Accessories

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

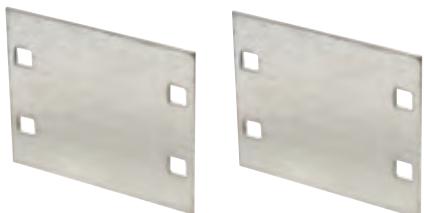
Standard 1.5 in. Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CCS | 1.5 |

Supplied standard with each length.
Including hardware, 2 bolts, 2 washers 3/8 in. diameter.

Standard Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-03-CCS | 3 |
| (Prefix)-W-04-CCS | 4 |
| (Prefix)-W-06-CCS | 6 |

Supplied standard with each length.
Including hardware, 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

Expansion Splice Plate



| Cat. No. | Width (in.) |
|--------------------|-------------|
| (Prefix)-W-1.5-ESP | 1.5 |
| (Prefix)-W-03-ESP | 3 |
| (Prefix)-W-04-ESP | 4 |
| (Prefix)-W-06-ESP | 6 |

Supplied with hardware for 1.5 in. wide channel 2 bolts, 2 nuts; all other widths 4 bolts, 2 stop nuts, 2 serrated flange nuts, 4 lock washers (stainless steel only) 3/8 in. diameter.

Wrap Around Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-ACS | 1.5 |
| (Prefix)-W-03-ACS | 3 |
| (Prefix)-W-04-ACS | 4 |
| (Prefix)-W-06-ACS | 6 |

Supplied with hardware for 1.5 in. wide channel 2 bolts, 2 nuts; all other widths 4 bolts, 4 nuts, 4 washers 3/8 in. diameter.

Accessories

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Adjustable Horizontal Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CHA | 1.5 |
| (Prefix)-W-03-CHA | 3 |
| (Prefix)-W-04-CHA | 4 |
| (Prefix)-W-06-CHA | 6 |



Standard Vertical Adjustable Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CCV | 1.5 |
| (Prefix)-W-03-CCV | 3 |
| (Prefix)-W-04-CCV | 4 |
| (Prefix)-W-06-CCV | 6 |

Wrap Around Vertical Adjustable Splice Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-WAV | 1.5 |
| (Prefix)-W-03-WAV | 3 |
| (Prefix)-W-04-WAV | 4 |
| (Prefix)-W-06-WAV | 6 |

Standard Hold Down Clamp



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-SHC | 1.5 |
| (Prefix)-W-03-SHC | 3 |
| (Prefix)-W-04-SHC | 4 |
| (Prefix)-W-06-SHC | 6 |

Accessories

Selection Guide

Prefix: **ALT** (Alum.), **SPT** (Pregalv.), **SHT** (Hot-Dip Galv.), **SST** (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Channel Expansion Guide Clamp



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CEG | 1.5 |
| (Prefix)-W-03-CEG | 3 |
| (Prefix)-W-04-CEG | 4 |
| (Prefix)-W-06-CEG | 6 |

Combination Hold Down / Cover Clamp



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CCC | 1.5 |
| (Prefix)-W-03-CCC | 3 |
| (Prefix)-W-04-CCC | 4 |
| (Prefix)-W-06-CCC | 6 |

Heavy-Duty Cover Clamp



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-HCC | 1.5 |
| (Prefix)-W-03-HCC | 3 |
| (Prefix)-W-04-HCC | 4 |
| (Prefix)-W-06-HCC | 6 |

Closed End Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CEP | 1.5 |
| (Prefix)-W-03-CEP | 3 |
| (Prefix)-W-04-CEP | 4 |
| (Prefix)-W-06-CEP | 6 |

Accessories

Selection Guide

Prefix: **ALT** (Alum.), **SPT** (Pregalv.), **SHT** (Hot-Dip Galv.), **SST** (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Channel Mounting Bracket



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CCB | 1.5 |
| (Prefix)-W-03-CCB | 3 |
| (Prefix)-W-04-CCB | 4 |
| (Prefix)-W-06-CCB | 6 |

Channel to Cable Tray Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CCT | 1.5 |
| (Prefix)-W-03-CCT | 3 |
| (Prefix)-W-04-CCT | 4 |
| (Prefix)-W-06-CCT | 6 |

Channel Straight Reducer Plate



| Cat. No. | Width (in.) |
|-----------------|-------------|
| (*)-W-03-01-RSP | 3 to 1 |
| (*)-W-04-01-RSP | 4 to 1 |
| (*)-W-06-01-RSP | 6 to 1 |
| (*)-W-04-03-RSP | 4 to 3 |
| (*)-W-06-03-RSP | 6 to 3 |
| (*)-W-06-04-RSP | 6 to 4 |

Channel to Floor Base Plate



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-CBP | 1.5 |
| (Prefix)-W-03-CBP | 3 |
| (Prefix)-W-04-CBP | 4 |
| (Prefix)-W-06-CBP | 6 |

Accessories

.....

Selection Guide

Prefix: ALT (Alum.), SPT (Pregalv.), SHT (Hot-Dip Galv.), SST (Stainless Steel)
Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

Channel to Tray Mounting Bracket



| Cat. No. | Width (in.) |
|-------------------|-------------|
| (Prefix)-W-01-TCB | 1.5 |
| (Prefix)-W-03-TCB | 3 |
| (Prefix)-W-04-TCB | 4 |
| (Prefix)-W-06-TCB | 6 |

Single Channel Hanger



| Cat. No. | Width (in.) |
|--------------|-------------------------|
| SPT-W-06-CCH | |
| SHT-W-06-CCH | |
| SST-W-06-CCH | For use with all widths |

Note: Designed for use with 1/2 in. threaded rod

Double Channel Hanger



| Cat. No. | Width (in.) |
|--------------|-------------------------|
| SPT-W-06-DCH | |
| SHT-W-06-DCH | For use with all widths |

Note: Designed for use with 1/2 in. threaded rod

Accessories

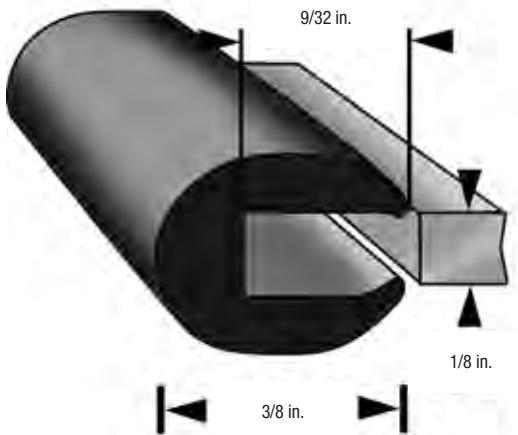
Channel Rubber Edge Trim



Very flexible to fit tight radius

Wear and fuel resistant neoprene

Note:
Available on request with pre-applied butyl sealant or hot-melted adhesive



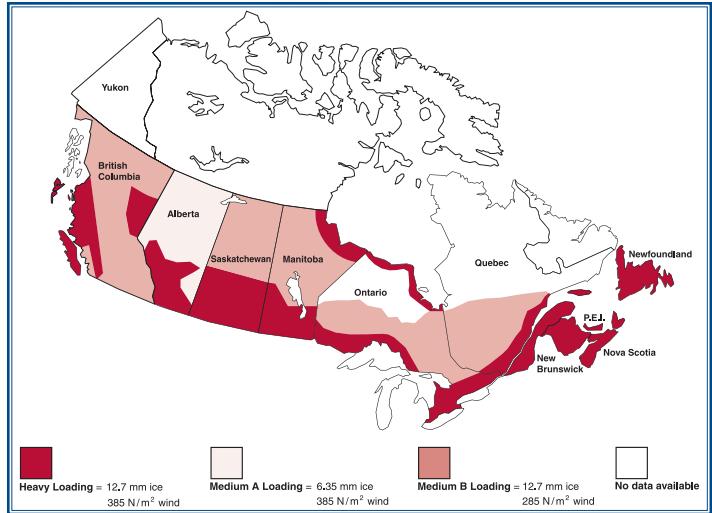
| Cat. No. | Width | Description |
|-----------------|-------------------------------------|---|
| RET-BUSH | For use with 3 in., 4 in. and 6 in. | Rubber edge trim - 10-3/4 in. Bushing - Standard pack of 10 |
| RET-50 | For use with all widths | Rubber edge trim - 50 foot roll |
| RET-500 | For use with all widths | Rubber edge trim - 500 foot roll |

Product specifications: Recommended temperature range: -40°C through 107°C.

Recommended temperature range if ordered with adhesive: -23°C through 70°C

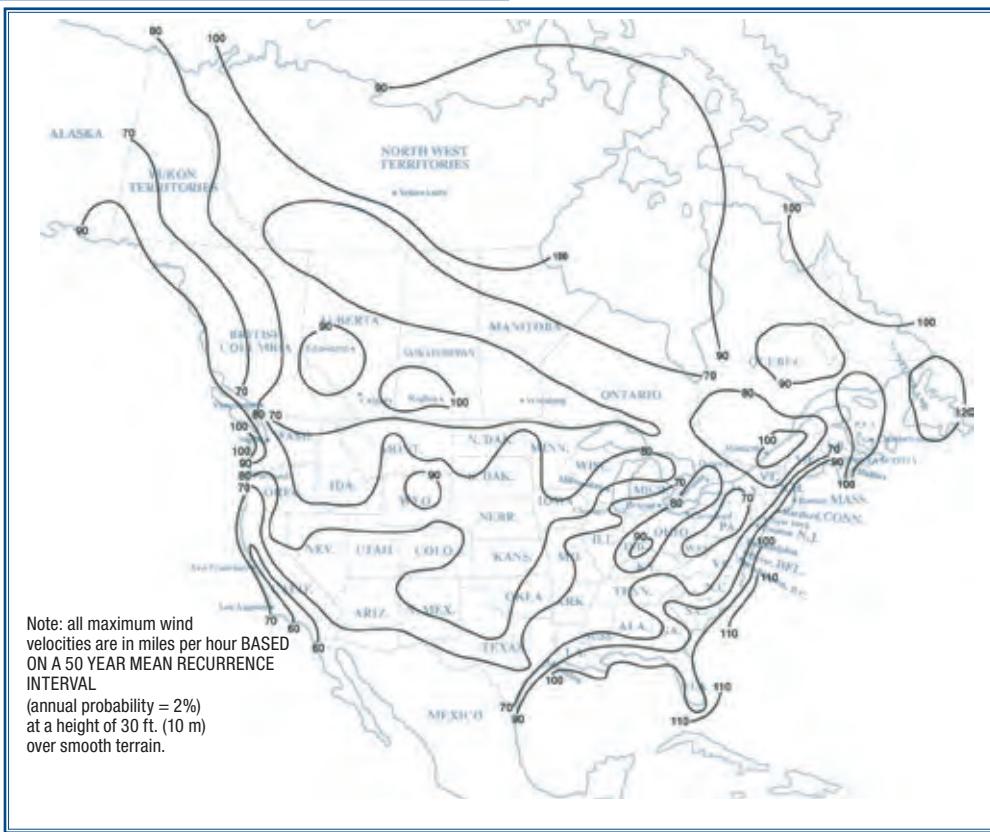
Base material: Dense neoprene rubber.

Figure 250-1CDN and 250-2CDN Loading for Grades B, C and D



General Loading Map of Canada
with respect to loading of overhead lines.

Fig. 250-1CDN



Basic Wind Speed (miles per hour).

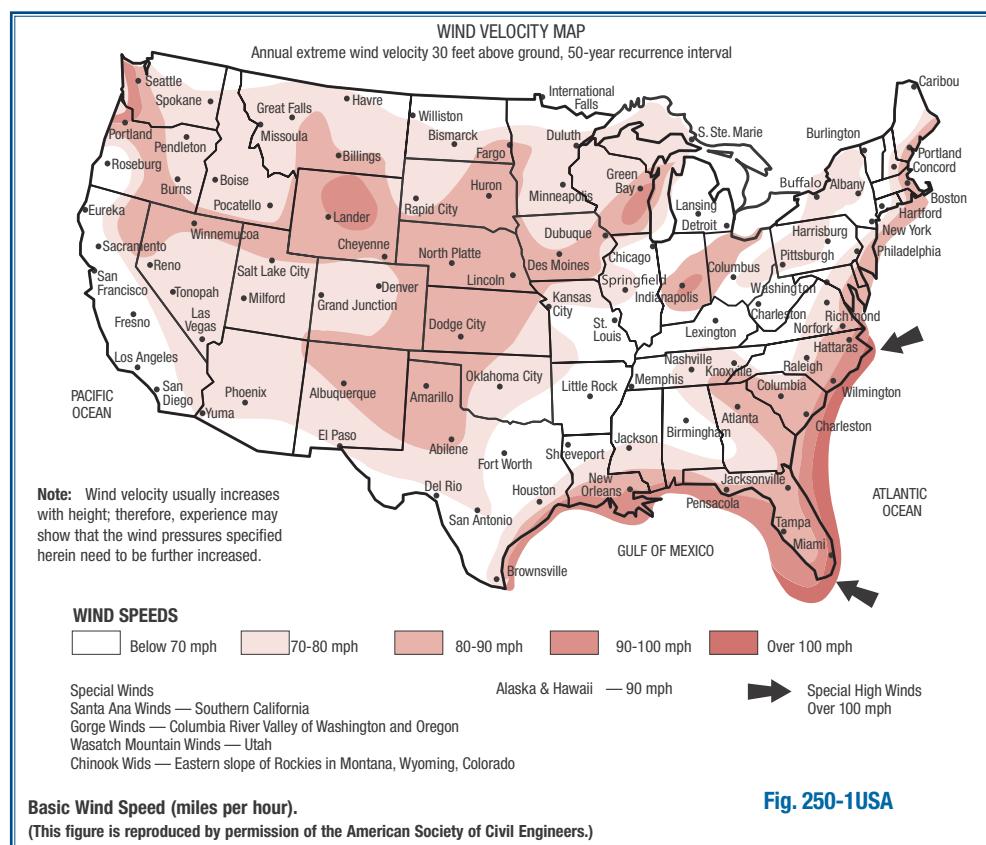
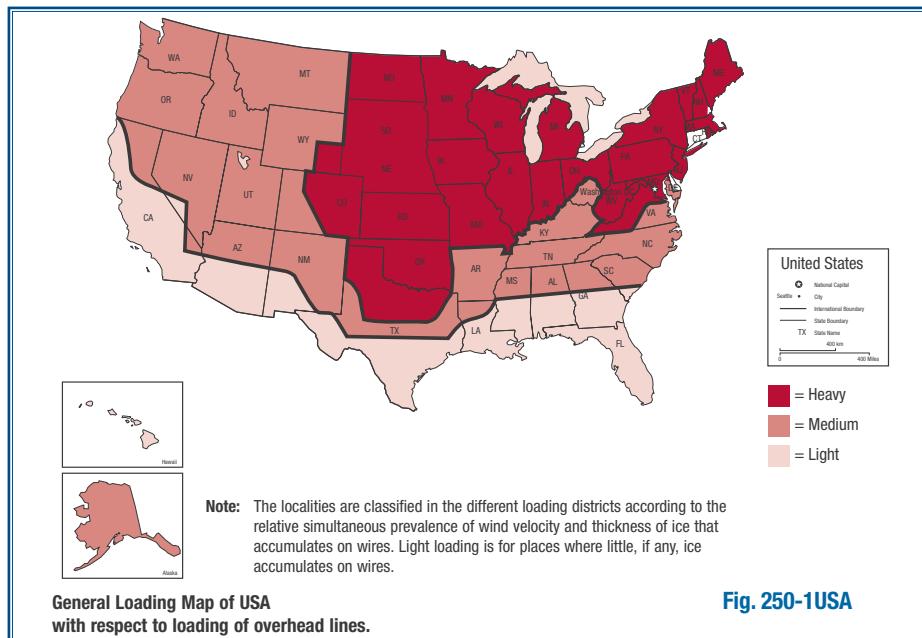
Fig. 250-2CDN

Figure 250-2CDN is a wind map of North America reproduced from ASCE 7-88 [52].

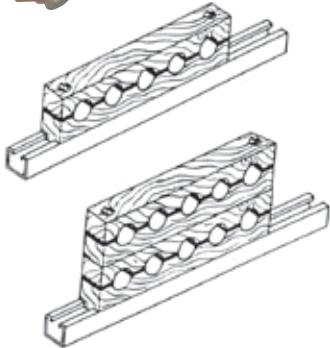
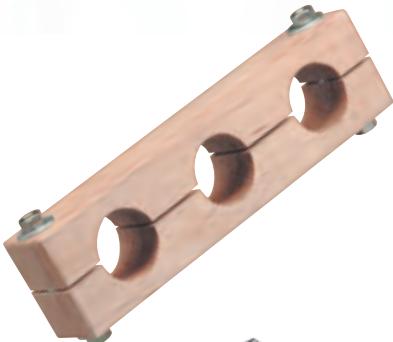
For Hawaii and Puerto Rico, the basic wind speeds are 80 mi/h and 95 mi/h, respectively.

Note: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

Figure 250-1USA and 250-2USA Loading for Grades B, C and D



Custom Maple Block and Cable Rollers



Custom Maple Hardwood Block

Maple hardwood, paraffin wax impregnated, multiple cable blocks can be made to your specific requirements.

Cable blocks are to ensure proper separation of single conductor cables, which prevents any interference due to magnetic fields. The maple hardwood blocks are paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting.

Cable blocks are also available in high density polyethylene.

Price and delivery upon request.

Electrogalvanized hardware included, however stainless steel hardware is also available upon request.

Maple hardwood block catalogue selector

| (MB) 3-15-1.8125-DH | | | | |
|---------------------|-------------------------|-----------------------|----------------|--|
| Material Prefix | Number of rows of holes | Total number of holes | Hole diameter | Hardware |
| MB • Maple block | Please specify | Please specify | Please specify | Blank • No hardware included DH • Hardware included DHSS • Stainless steel hardware included |

Cable Rollers

Why should rollers be used?

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions.
2. Minimizes harmful "shear" load being placed on cable trays.
3. To reduce installation time.

Why purchase the T&B Cable Roller System?

- Universal — fits virtually all tray systems.
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage.
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths.
- Nylon bearings require no lubrication.
- Independent rollers limit cable abrasion.

Straight Roller



| Cat. No. | Description | Fits |
|----------|-------------|---|
| HAR 1224 | Straight | all profiles 12 in. to 24 in. (30 cm to 60 cm) |
| HAR 1836 | Straight | all profiles 18 in. to 36 in. (45 cm to 90 cm) |

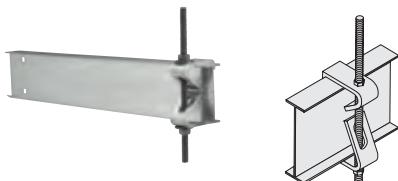
Corner Roller



| Cat. No. | Description | Fits |
|----------|-------------|--------------|
| VHR04 | Corner | all profiles |

Cable Tray Support Systems

Hanger Rod Clamp



These clamps are designed for ladder and ventilated cable tray. They provide a fast and economical solution for a suspended cable tray installation. One kit is needed per each threaded rod location.

- Kit consists of:
- one bottom clamp
- one top clamp

Uses 1/2 in. threaded rod (order separately) / 250 lb. capacity per kit.

For Steel Cable Tray

| Cat. No. | Material Prefix | Height (in.) |
|----------------|-------------------|--------------|
| (Prefix)-3-HRC | SPW SHW SSW | 3 |
| (Prefix)-4-HRC | | 4 |
| (Prefix)-5-HRC | | 5 |
| (Prefix)-6-HRC | | 6 |
| (Prefix)-7-HRC | | 7 |

For Aluminum Cable Tray

| Cat. No | Tray Series | Cat. No | Tray Series | Cat. No | Tray Series |
|-----------|-------------|-----------|-------------|-----------|-------------|
| ABW04-HRC | AH04 | ABW25-HRC | AH25 | ABW46-HRC | AH46 |
| ABW14-HRC | AH14 | ABW35-HRC | AH35 | ABW56-HRC | AH56 |
| ABW24-HRC | AH24 | ABW45-HRC | AH45 | ABW66-HRC | AH66 |
| ABW34-HRC | AH34 | ABW16-HRC | AH16 | ABW27-HRC | AH27 |
| ABW44-HRC | AH44 | ABW26-HRC | AH26 | ABW37-HRC | AH37 |
| ABW54-HRC | AH54 | ABW36-HRC | AH36 | | |

Center Support Bracket



This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single point suspension.

- Supplied as a complete kit.
- Uses 1/2 in. threaded rod (order separately).
- For use with up to 24 in. wide tray.
- Load capacity : 700 lb. per kit.

| Cat. No. | Material | Channel Width (in.) | Tray Width (in.) |
|----------|-----------------------|---------------------|------------------|
| SHW18CSB | Hot-dipped galvanized | 18 | 6 9 |
| SHW30CSB | | 30 | 12 18 24 |

Trapeze Kit



This system is designed to support various cable tray widths in a suspending installation.

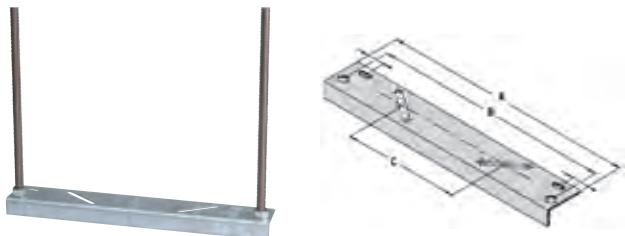
- Kit consists of:
- 1 pc of strut cut to length
 - 4 3/8 in. strut nuts
 - 2 hold down clips
 - 4 1/2 in. hex nuts
 - 2 3/8 in. x 7/8 in. hex head cap screws
 - 4 1/2 in. square washers
- Uses 1/2 in. threaded rod (order separately)

| Cat. No. | Channel Width (in.) | Tray Width (in.) |
|------------|---------------------|------------------|
| (*)-06-TPK | 16-7/8 | 6 |
| (*)-09-TPK | 18-3/4 | 9 |
| (*)-12-TPK | 22-1/2 | 12 |
| (*)-18-TPK | 28-1/8 | 18 |
| (*)-24-TPK | 35-5/8 | 24 |
| (*)-30-TPK | 41-1/4 | 30 |
| (*)-36-TPK | 46-7/8 | 36 |
| (*)-42-TPK | 52-1/2 | 42 |

(*) Insert SHW for hot-dipped galvanized.
SSW for stainless steel 316.
SPW for pregalvanized.

Cable Tray Support Systems

Cross Member



| Cat. No. | A | B | C |
|------------|----|----|----|
| S202-6HDG | 6 | 5 | - |
| S202-9HDG | 9 | 8 | 2 |
| S202-15HDG | 5 | 14 | 8 |
| S202-21HDG | 21 | 20 | 14 |
| S202-27HDG | 27 | 26 | 20 |
| S202-33HDG | 33 | 32 | 26 |

* Order hold down clips separately. Cat # SSW-HEC.
Hanging rods not included.
Standard finish: hot-dipped galvanized.

Cantilever Support



| Cat. No. | A | B | Design Load/Lb. |
|------------|--------|---------|-----------------|
| S203-8HDG | 8-1/2 | 4-1/16 | 1200 |
| S203-14HDG | 14-1/2 | 5-3/8 | 1200 |
| S203-20HDG | 20-1/2 | 6-11/16 | 1200 |
| S203-26HDG | 26-1/2 | 8 | 1200 |
| S203-32HDG | 32-1/2 | 8 | 1200 |
| S203-38HDG | 38-1/2 | 8 | 1200 |

* Order hold down clips separately. Cat # SSW-HEC.
Standard finish: hot-dipped galvanized.

Conduit to Cable Tray Clamp



| Cat. No. | Conduit Size (in.) |
|----------|--------------------|
| 6210 | 1/2 - 3/4 |
| 6212 | 1 - 1-1/4 |

Material: steel
Standard finish: electrogalvanized.



Conduit to Cable Tray - Swivel Clamp



| Cat. No. | Conduit Size (in.) |
|----------|--------------------|
| 6209 | 1/2 - 3/4 |
| 6211 | 1 - 1-1/4 |
| 6214 | 1-1/2 - 2 |
| 6216 | 2-1/2 - 3 |
| 6218 | 3-1/2 - 4 |

Swivel Tray Clamp for aluminum and steel trays with regular or reinforced flanges.
- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp.
- 1/2 to 4 inch can be clamped to any position in a 90 degree arc.
Material: malleable iron hub and steel U-bolt.
Standard finish: zinc plated.

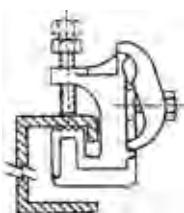


Grounding and Bonding Products

Cable Tray Ground Clamp



Showing Cat. No. 10109



| Cat. No. | Cable | Description |
|----------|--------------------|---|
| 10105 | Copper or aluminum | Cable for single conductors #4 solid to 2/0 str. |
| 10109 | | Cable for single conductors 2/0 solid to 4/0 str. |

Material: malleable iron.
Standard finish: zinc plated.
For use with aluminum and steel cable tray.

Blackburn® Ground Clamp



Figure 1



Figure 2

Castings are of high strength, corrosion-resistant copper alloy.

| Cat. No. | Conductor Range | | |
|----------|-----------------|----------|--------|
| | Min. | Max. | Figure |
| GTC13P | #4 sol. | 2/0 str. | 1 |
| GTC14P | 2/0 str. | 250 Kmil | 1 |
| GTC23P | #4 sol. | 2/0 str. | 2 |
| GTC24P | 2/0 str. | 250 Kmil | 2 |

Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench.
Material: copper alloy.
Standard finish: tin-plated for aluminum cable tray.

For our complete offering of Grounding & Bonding products,
consult our Connectivity and Grounding Catalogue.

Grounding and Bonding Products

Blackburn® Cable Tray Ground Clamp



| Cat. No. | Cable | Description |
|----------|----------|--|
| CTG250 | Al or Cu | For parallel or tapping applications #2 solid to 250 Kcmil. |

Material: copper alloy.
Standard finish: tin-plated.

Blackburn® Lay-in Lug



| Cat. No. | Conductor Range | | Stud Size | |
|----------|-----------------|-----------|-----------|-------|
| | Min. | Max. | (in.) | (mm²) |
| LL306 | #6 solid | 3/0 str. | 0.33 | 8.38 |
| LL2506 | #6 str. | 250 Kcmil | 0.33 | 8.38 |

Material: Tin-plated high strength 6061-T6 aluminum alloy.
These grounding connectors are dual rated for aluminum and copper conductors.
The opened face design allows the installer to quickly lay-in the grounding conductor as a jumper.

Bonding Jumpers



| Cat. No. | Bonding Amp. Capacity | Single Bolt Hole | Description |
|----------|-----------------------|------------------|----------------------------|
| FBD12-1* | 600 A | 7/16 | 12 in. flat flexible braid |
| FBD16-1* | 600 A | 7/16 | 16 in. flat flexible braid |
| FBD18-1* | 600 A | 7/16 | 18 in. flat flexible braid |
| FBD24-1* | 600 A | 7/16 | 24 in. flat flexible braid |
| FBD30-1* | 600 A | 7/16 | 30 in. flat flexible braid |
| FBD36-1* | 600 A | 7/16 | 36 in. flat flexible braid |
| FBE12-1* | 1200 A | 9/16 | 12 in. flat flexible braid |
| FBE16-1* | 1200 A | 9/16 | 16 in. flat flexible braid |
| FBE18-1* | 1200 A | 9/16 | 18 in. flat flexible braid |
| FBE24-1* | 1200 A | 9/16 | 24 in. flat flexible braid |
| FBE30-1* | 1200 A | 9/16 | 30 in. flat flexible braid |
| FBE36-1* | 1200 A | 9/16 | 36 in. flat flexible braid |
| FBG12-1* | 2000 A | 9/16 | 12 in. flat flexible braid |
| FBG16-1* | 2000 A | 9/16 | 16 in. flat flexible braid |
| FBG18-1* | 2000 A | 9/16 | 18 in. flat flexible braid |
| FBG24-1* | 2000 A | 9/16 | 24 in. flat flexible braid |
| FBG30-1* | 2000 A | 9/16 | 30 in. flat flexible braid |
| FBG36-1* | 2000 A | 9/16 | 36 in. flat flexible braid |

* CSA Certified and UL Listed for grounding & bonding equipment.

Custom braids are available.

Material: copper. Standard finish: Tin-plated.

For our complete offering of grounding & bonding products,
consult our connectivity and grounding catalogue.

Grounding and Bonding Products

Grounding & Bonding

| Table 1 (NEC TABLE 392.7 (B)) Metal Area Requirements for Cable Trays Used as Equipment Grounding Conductors | | |
|--|---|----------------------|
| Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System | Minimum Cross-Sectional Area of Metal* In Square Inches | |
| | Steel Cable Trays | Aluminum Cable Trays |
| 60 | 0.20 | 0.20 |
| 100 | 0.40 | 0.20 |
| 200 | 0.70 | 0.20 |
| 400 | 1.00 | 0.40 |
| 600 | 1.50** | 0.40 |
| 1000 | — | 0.60 |
| 1200 | — | 1.00 |
| 1600 | — | 1.50 |
| 2000 | — | 2.00** |

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 A. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 A.

For larger ampere ratings an additional grounding conductor must be used.

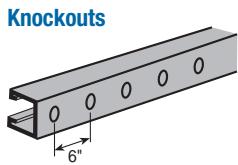
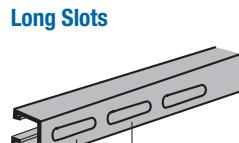
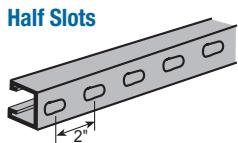
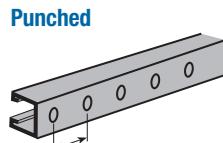
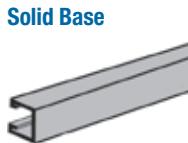
| Table 2 (Based on NEC Table 250-95 and CEC Table 16) Minimum Size Equipment Grounding Conductors for Grounding & Bonding Raceway and Equipment | | |
|---|-----------------|--|
| Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not exceeding (Amperes) | Size | |
| | Copper Wire No. | Aluminum or Copper-Clad Aluminum Wire No.* |
| 15 | 14 | 12 |
| 20 | 12 | 10 |
| 30 | 10 | 8 |
| 40 | 10 | 8 |
| 60 | 10 | 8 |
| 100 | 8 | 6 |
| 200 | 6 | 4 |
| 300 | 4 | 2 |
| 400 | 3 | 1 |
| 500 | 2 | 1/0 |
| 600 | 1 | 2/0 |
| 800 | 1/0 | 3/0 |
| 1000 | 2/0 | 4/0 |
| 1200 | 3/0 | 250 kcmil |
| 1600 | 4/0 | 350 kcmil |
| 2000 | 250 kcmil | 400 kcmil |
| 2500 | 350 kcmil | 600 kcmil |
| 3000 | 400 kcmil | 600 kcmil |
| 4000 | 500 kcmil | 800 kcmil |
| 5000 | 700 kcmil | 1200 kcmil |

* See installation restrictions in NEC Section 250-92(a).

For more information on grounding and bonding cable tray, refer to NEMA VE 2 Cable Tray Installation Guidelines.

1-5/8 in. x 1-5/8 in. Channel and Hardware

Superstrut® 1-5/8 in. x 1-5/8 in. - 12 Gauge Channel Type A



| Cat. No. | Description |
|----------|--------------|
| A1200 | Solid base |
| A1200-P | Punched |
| A1200-HS | Half slots |
| A1200-S | Long slots |
| A1200-KO | Knockouts |
| A1202 | Back to back |

Example: A1200HS10ALC, A120020HDGC

| Finishes & Materials | |
|----------------------|-----------------------------------|
| No Suffix | Gold galvanized dichromate finish |
| PGC | Pregalvanized |
| HDGC | Hot-dipped galvanized |
| T316L | Stainless steel type 316 |
| ALC | Aluminum |
| EG | Electrogalvanized |

- Offered in 10 or 20 ft. lengths.

- Aluminum, hot-dipped galvanized or stainless steel channels are recommended to support aluminum, steel or stainless steel cable tray.

Channel Nuts

A100
Regular Spring Nut



AC100
Springless Nut



UC100
Universal Nylon Cone Nut



For all 1-5/8 in. and 1-1/2 in. channels
May be used with ALL strut depths.

| Cat. No. | Size | |
|--------------|------|---|
| A100-1/4EGC | 1/4 | Standard finish: Electrogalvanized Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C). |
| A100-5/16EGC | 5/16 | |
| A100-3/8EGC | 3/8 | |
| A100-1/2EGC | 1/2 | |
| A100-5/8EGC | 5/8 | |
| A100-3/4 | 3/4 | |
| A100-7/8EGC | 7/8 | |

Nut is square over 1/2 in. size.

| | | |
|--------------|-----|---|
| AC100-1/4EGC | 1/4 | Standard Finish: Electrogalvanized Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C). |
| AC100-3/8EGC | 3/8 | |
| AC100-1/2EGC | 1/2 | |
| AC100-5/8 | 5/8 | |
| AC100-3/4 | 3/4 | |

Nut is square over 1/2 in. size.

| | | |
|-----------|-----|--------------------------------------|
| UC100-1/4 | 1/4 | Not available in stainless steel. |
| UC100-3/8 | 3/8 | |
| UC100-1/2 | 1/2 | |

Hex. Head Cap Screw

| Cat. No. | Size | |
|----------------|-------------|--|
| E142-1/4x100EG | 1/4 x 1 | Standard finish: Electrogalvanized Available in stainless steel. Change suffix to SS6(C). |
| E142-1/4x150EG | 1/4 x 1-1/2 | |
| E142-3/8x100EG | 3/8 x 1 | |
| E142-3/8x150EG | 3/8 x 1-1/2 | |
| E142-1/2x100EG | 1/2 x 1 | |
| E142-1/2x150EG | 1/2 x 1-1/2 | |

Fittings

Superstrut® Fittings and Brackets

| | | | | | |
|--|---|---|--|---|---|
| | | | | | |
| AB241HDGC | AB206HDGC | AB207HDGC | X207HDGC | | |
| Cat. No. AB241-1/4HDGC AB241-3/8HDGC AB241-1/2HDGC AB241-3/4HDGC | Hole Size 1/4 3/8 1/2 3/4 | | | | |
| AB201HDGC | AB202HDGC | AB203HDGC | AB204HDGC | | |
| AB205HDGC | AB213HDGC | AB214HDGC | AB254-LHDGC | | |
| AB254-RHDGC | X289HDGC | AP232HDG | AP235HDGC | | |
| S249HDG | S256HDGC | S251HDGC | | | |
| Cat. No. S249-8HDG S249-14HDG S249-20HDG S249-26HDG S249-32HDG S249-38HDG | A 8-1/2 14-1/2 20-1/2 26-1/2 32-1/2 38-1/2 | B 8 9 9 11-1/2 11-1/2 11-1/2 | Design Load (lb.) 1500 1500 1500 1500 1500 1500 | | |
| Cat. No. S256-8HDG S256-14HDG S256-20HDG S256-26HDG | A 8-1/2 14-1/2 20-1/2 26-1/2 | Design Load (lb.) 1000 500 300 250 | Cat. No. S251-14HDGC S251-20HDGC S251-26HDGC S251-32HDGC S251-38HDGC | A 14-1/2 20-1/2 26-1/2 32-1/2 38-1/2 | Design Load (lb.) 1650 1050 800 650 500 |
| When installed in inverted position reduce load rating 40%. Strut section made from half slot channel. | | | | Std Dimensions: Hole spacing 13/16 in. from end Hole spacing 1-7/8 in. centers Hole size 9/16 in. dia. Fitting width 1-5/8 in. | |

Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel.
Also available in Electrogalvanized (EG) and Gold galvanized dichromate (no suffix).

Std Dimensions: Hole spacing 13/16 in. from end
Hole spacing 1-7/8 in. centers
Hole size 9/16 in. dia.
Fitting width 1-5/8 in.

Quick Clamp II (TBQC)



True one-piece construction — arrives ready to install.

NO breaking apart — half the installation time of break apart clamps.

Integral bolt and captive nut — no separate pieces to lose.

One size fits EMT and rigid conduit — takes the guesswork out of clamp selection. Pipe size and catalogue number stamped right on clamp.

Attaches a complete range of EMT and rigid conduit (1/2 in. to 4 in.) — to strut channels.

Multi-driver combo bolt head — accepts a wrench, most screwdrivers or 1/2 in. nut driver.

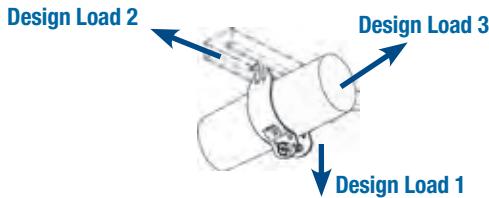
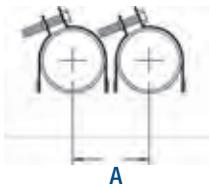
Field-adjustable angle ($\pm 4^\circ$) — easy installation even when strut is not square.

Embossed J-hooks increase loading capabilities.

T&B flex window provides wrapping action around pipes.

Easy reconfiguration without complete disassembly — easily accessible angled bolt allows for field adjustments and closer conduit spacing.

Electrogalvanized finish — additional corrosion resistance.



Ordering Information

| Cat. No. | EMT Dimension A in. (mm) | Rigid Conduit Dimension A in. (mm) |
|----------------|--------------------------|------------------------------------|
| TBQC050 | 1-5/16 (33.5) | 1-1/4 (31.5) |
| TBQC075 | 1-3/4 (44.5) | 1-11/16 (43) |
| TBQC100 | 1-13/16 (46) | 1-3/4 (44.5) |
| TBQC125 | 2-1/8 (54) | 2 (51) |
| TBQC150 | 2-3/8 (60.5) | 2-3/16 (55.5) |
| TBQC200 | 2-5/8 (66.5) | 2-1/2 (63.5) |
| TBQC250 | 3-1/16 (78) | 3-1/16 (78) |
| TBQC300 | 3-11/16 (93.5) | 3-11/16 (93.5) |
| TBQC350 | 4-3/16 (106.5) | 4-3/16 (106.5) |
| TBQC400 | 4-11/16 (119) | 4-11/16 (119) |

Loading Data

| Cat. No. | Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|----------------|--|------------------------|------------------------|
| TBQC050 | 200 (90) | 50 (23) | 50 (23) |
| TBQC075 | 200 (90) | 50 (23) | 50 (23) |
| TBQC100 | 200 (90) | 50 (23) | 50 (23) |
| TBQC125 | 200 (90) | 50 (23) | 50 (23) |
| TBQC150 | 200 (90) | 50 (23) | 50 (23) |
| TBQC200 | 200 (90) | 50 (23) | 50 (23) |
| TBQC250 | 350 (158) | 50 (23) | 50 (23) |
| TBQC300 | 350 (158) | 50 (23) | 50 (23) |
| TBQC350 | 350 (158) | 50 (23) | 50 (23) |
| TBQC400 | 350 (158) | 50 (23) | 50 (23) |

Design load 1 has a safety factor of 4. Design loads 2 and 3 have a safety factor of 1.

Cobra® Cable and Pipe Clamp (CPC)

Clear markings on each clamp — identify the catalogue number, min./max. outer cable diameters, EMT/Rigid trade sizes, CSA and UL stamps.

One size clamp works on **equal trade sizes for both EMT and rigid conduit**.

Works with **all depths of strut - 13/16 in. to 3-1/4 in.**

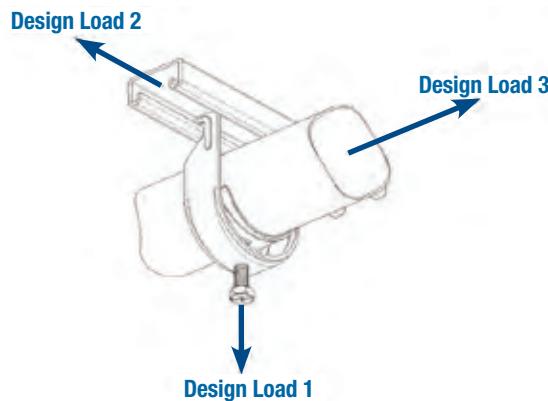
Two hooks on the same side — make the clamp easy to install and keep conduits and cable square with strut.

Rugged stirrup and wide saddle design — holds securely with no damage to conduit or cable.

Suggested design load is 200 lb. (1/2 in. to 2 in.); 350 lb. (2-1/2 in. to 4 in.). Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).

Heavy-duty 5/16 in. hex bolt — with multi-driver head (Robertson square, Phillips cross-recess and slot) provides full range of installation options. Virtually any tool will work!

Bright zinc finish clamps are electrogalvanized after fabrication for additional durability.



| Cat. No. | Aluminum Cat. No. | Stainless steel 316L Cat. No. | EMT Trade Size in. (mm) | Rigid Cond. Trade Size in. (mm) | Cable O.D. Range (in.) | Static Load Limit (lb.) Safety Factor = 4 | Qty. per Box | Wt./C lb. | Torque Value (ft.-lb.) |
|----------|-------------------|-------------------------------|-------------------------|---------------------------------|------------------------|---|--------------|-----------|------------------------|
| CPC025 | CPC025AL | CPC025SS6 | 1/4 (6.4) | 1/4 (6.4) | 0.312 - 0.600 | 200 | 100 | 8 | 35 |
| CPC050 | CPC050AL | CPC050SS6 | 1/2 (12.7) | 1/2 (12.7) | 0.500 - 0.890 | 200 | 100 | 10 | |
| CPC075 | CPC075AL | CPC075SS6 | 3/4 (19.1) | 3/4 (19.1) | 0.860 - 1.110 | 200 | 100 | 12 | |
| CPC100 | CPC100AL | CPC100SS6 | 1 (25.4) | 1 (25.4) | 1.100 - 1.400 | 200 | 100 | 14 | |
| CPC125 | CPC125AL | CPC125SS6 | 1-1/4 (31.8) | 1-1/4 (31.8) | 1.400 - 1.725 | 200 | 50 | 16 | |
| CPC150 | CPC150AL | CPC150SS6 | 1-1/2 (38.1) | 1-1/2 (38.1) | 1.690 - 1.980 | 200 | 50 | 18 | |
| CPC200 | CPC200AL | CPC200SS6 | 2 (50.8) | 2 (50.8) | 1.980 - 2.576 | 200 | 50 | 24 | |
| CPC250 | CPC250AL | CPC250SS6 | 2-1/2 (63.5) | 2-1/2 (63.5) | 2.576 - 3.060 | 350 | 25 | 36 | |
| CPC300 | CPC300AL | CPC300SS6 | 3 (76.2) | 3 (76.2) | 3.060 - 3.626 | 350 | 25 | 42 | |
| CPC350 | CPC350AL | CPC350SS6 | 3-1/2 (88.9) | 3-1/2 (88.9) | 3.626 - 4.126 | 350 | 25 | 46 | |
| CPC400 | CPC400AL | CPC400SS6 | 4 (101.6) | 4 (101.6) | 4.126 - 4.626 | 350 | 25 | 50 | |

| Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|--|------------------------|------------------------|
| 200 (91) | 50 (23) | 50 (23) |
| 200 (91) | | |
| 200 (91) | | |
| 200 (91) | | |
| 200 (91) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |

Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalogue no. (i.e.: CPC050SS6).

Stainless steel bolt head is hexagonal and slotted only.

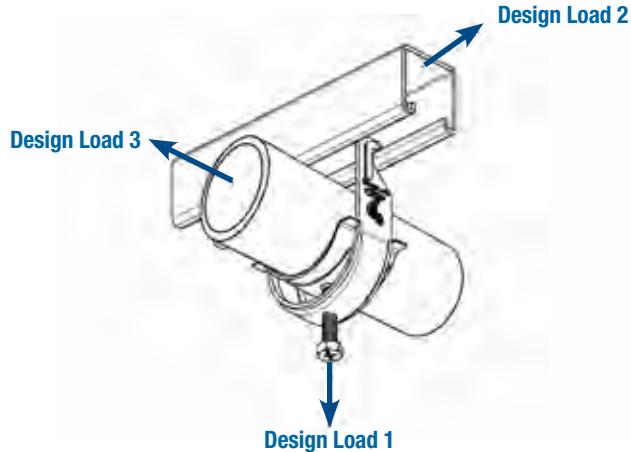
Loc-King Cobra™ Cable and Pipe Clamp (LKCP)



Superior design load capabilities for industrial applications:

350 lb. for 1/2 in. to 2 in. trade sizes; 450 lb. for 2-1/2 in. to 4 in. trade sizes.

- Durable one-piece, heavy-duty steel construction – designed specifically for use in industrial applications.
- Embosses on shoulder and hooks increase loading capability and durability, preventing deformation of clamps.
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection.
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage.
- Increased corrosion protection - GoldGalv® (yellow zinc dichromate) finish stands up to harsh industrial applications. Compared to conventional electrogalvanization.
- Parallel hook design keeps conduit and cable square with strut.
- Heavy-duty 5/16 in. hex bolt.
- One size clamp works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification.



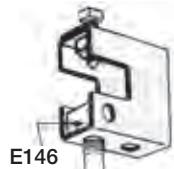
| Cat. No. | EMT Trade Size in. (mm) | Rigid Cond. Trade Size in. (mm) | Cable O.D. Range (in.) | Static Load Limit (lb.) Safety Factor = 4 | Qty. per Box | Wt./C lb. | Torque Value (ft.-lb.) | 35 |
|----------|-------------------------|---------------------------------|------------------------|---|--------------|-----------|------------------------|----|
| LKCP050 | 1/2 (12.7) | 1/2 (12.7) | 0.650 - 0.890 | 100 | 15 | 10 | | |
| LKCP075 | 3/4 (19.1) | 3/4 (19.1) | 0.860 - 1.110 | 100 | 16 | 12 | | |
| LKCP100 | 1 (25.4) | 1 (25.4) | 1.100 - 1.400 | 50 | 19 | 14 | | |
| LKCP125 | 1-1/4 (31.8) | 1-1/4 (31.8) | 1.400 - 1.725 | 50 | 23 | 16 | | |
| LKCP150 | 1-1/2 (38.1) | 1-1/2 (38.1) | 1.690 - 1.980 | 50 | 27 | 18 | | |
| LKCP200 | 2 (50.8) | 2 (50.8) | 1.980 - 2.576 | 50 | 38 | 24 | | |
| LKCP250 | 2-1/2 (63.5) | 2-1/2 (63.5) | 2.576 - 3.060 | 25 | 44 | 36 | | |
| LKCP300 | 3 (76.2) | 3 (76.2) | 3.060 - 3.626 | 25 | 53 | 42 | | |
| LKCP350 | 3-1/2 (88.9) | 3-1/2 (88.9) | 3.626 - 4.126 | 25 | 58 | 46 | | |
| LKCP400 | 4 (101.6) | 4 (101.6) | 4.126 - 4.626 | 25 | 66 | 50 | | |

| Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|--|------------------------|------------------------|
| 350 (159) | 50 (23) | 50 (23) |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 450 (204) | | |
| 450 (204) | | |



Beam Clamps and Hanger Rods

U562HDG

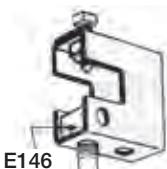


| Rod Size | Design Load Load/lb. |
|----------|----------------------|
| 1/2 | 800 |

E146 Square nut order separately. 1/2 in. set screw included.

For 20° swivel application use ES145-1/2 nut.

UM562HDGC



| Rod Size | Design Load Load/lb. |
|----------|----------------------|
| 1/2 | 1200 |

E146 Square nut order separately. 1/2 in. set screw included.

For 20° swivel application use ES145-1/2 nut.

US562HDGC



| Rod Size | Design Load Load/lb. |
|----------|----------------------|
| 1/2 | 800 |

1/2 in. set screw included.

U568



| Cat. No. | Beam Flange Width | A |
|----------|-------------------|----|
| U568-3EG | 6 | 9 |
| U568-4EG | 9 | 12 |
| U568-5EG | 12 | 15 |

16 ga. material.

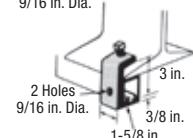
U514HDGC



3/8 in. x 1-1/2 in. set screw included.

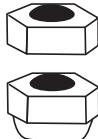
Design load 750 lb./per pair.

U515HDGC



For all A series channel. 1/2 in. x 1-1/2 in. set screw included. Design load 800 lb.

ES145



| Cat. No. | Size |
|-------------|------|
| ES145-3/8EG | 3/8 |
| ES145-1/2EG | 1/2 |

E146



| Cat. No. | Size |
|-------------|------|
| E146-1/4EG | 1/4 |
| E146-5/16EG | 5/16 |
| E146-3/8EG | 3/8 |
| E146-1/2EG | 1/2 |
| E146-5/8EG | 5/8 |

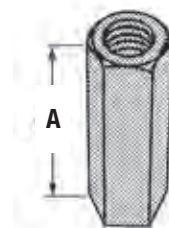
H104



| Cat. No. | Size | Threads per inch | Design Load lb. |
|-------------------------------|------|------------------|-----------------|
| National Coarse Thread | | | |
| H104-1/4x10EGC | 1/4 | 20 | 150 |
| H104-3/8x10EGC | 3/8 | 16 | 610 |
| H104-1/2x10EGC | 1/2 | 13 | 1130 |
| H104-5/8x10EGC | 5/8 | 11 | 1810 |
| H104-3/4x10EGC | 3/4 | 10 | 2710 |
| H104-7/8x10EGC | 7/8 | 9 | 3770 |

Also available in stainless steel (304 and 316) in length of 6 ft. Standard length 10 ft.

H119



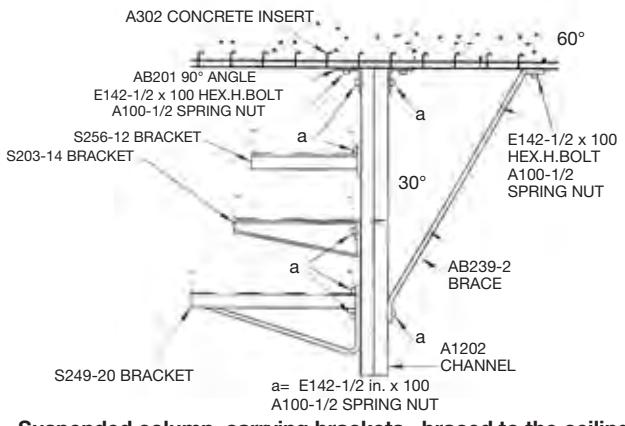
| Rod Size | A |
|----------|-------|
| 1/4 | 7/8 |
| 5/16 | 7/8 |
| 3/8 | 1-1/8 |
| 1/2 | 1-1/4 |
| 5/8 | 2-1/8 |
| 3/4 | 2-1/4 |
| 7/8 | 2-1/2 |
| 1 | 2-1/4 |

Order by product number, rod size, and finish. Example: H119-1/2EGC.

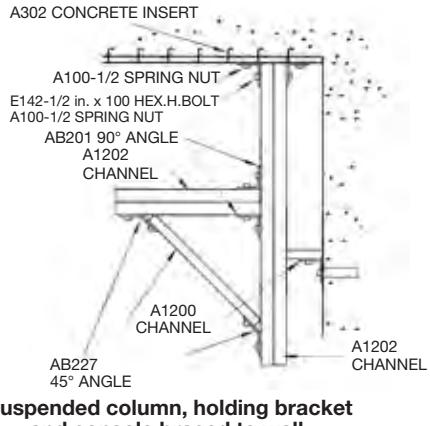
Finished & Materials: Gold Galv. dichromate (no suffix), Electrogalvanized (EG), Hot-dipped galvanized (HDGC), Stainless steel type 316 (SS6C).

Design Applications / Mechanical Support

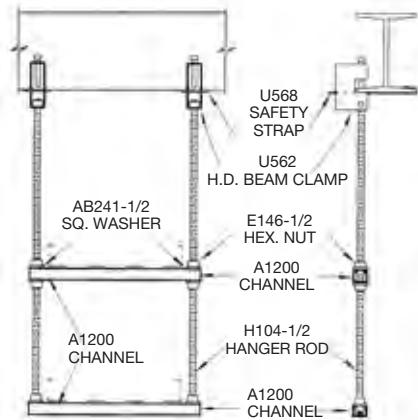
Example: 1



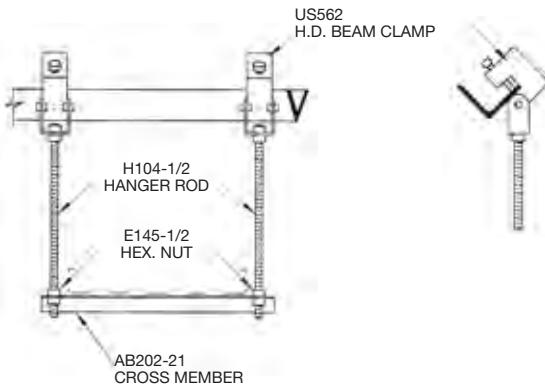
Example: 2



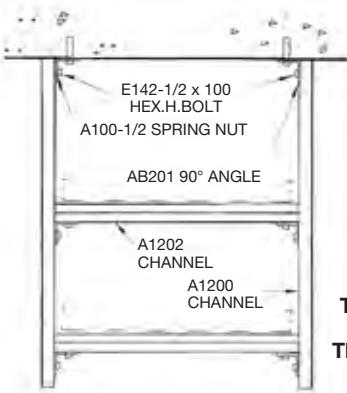
Example: 3



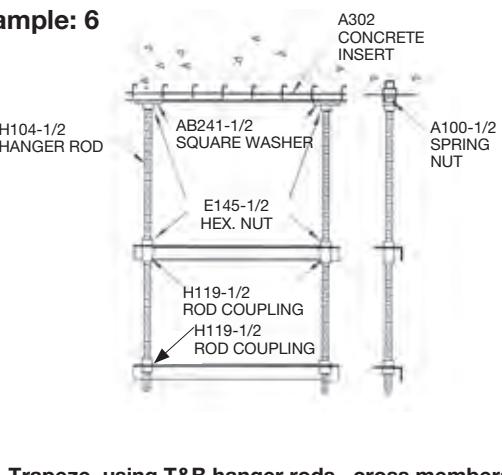
Example: 4



Example: 5

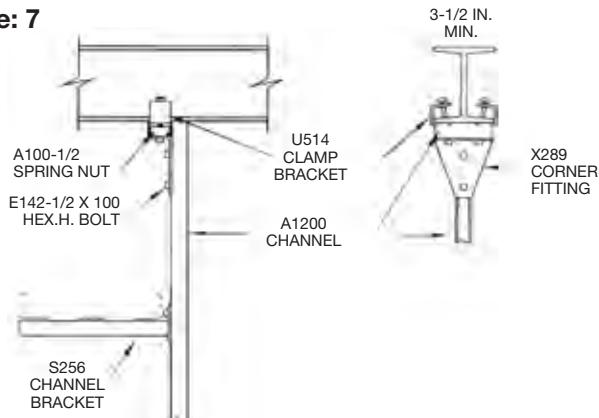


Example: 6



Design Applications / Mechanical Support

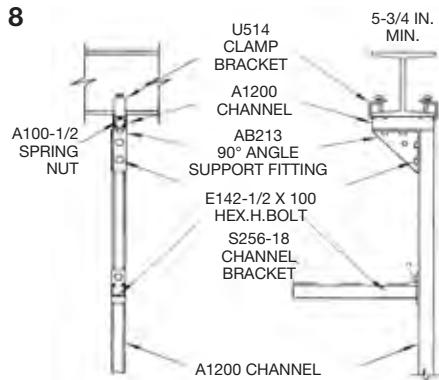
Example: 7



* NOTE: BRACE SHOULD BE USED FOR LENGTHS GREATER THAN 30 IN.

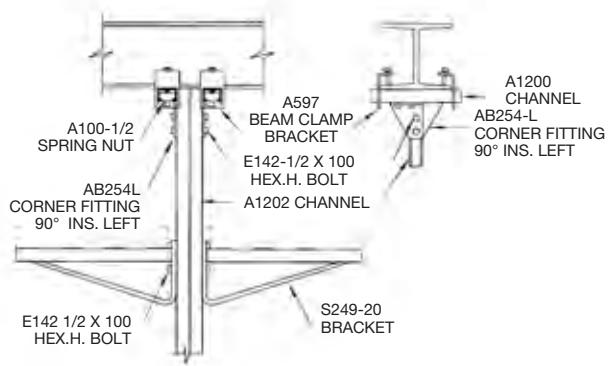
Single-sided bracket application

Example: 8



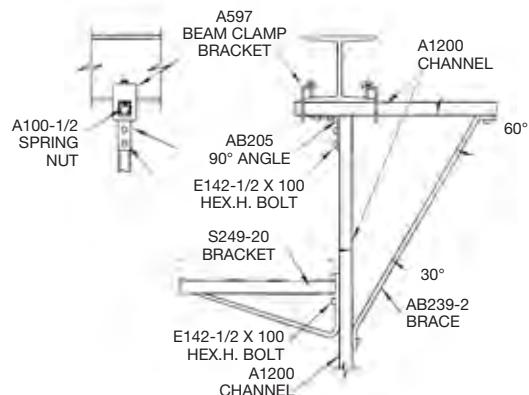
Single-sided bracket application

Example: 9



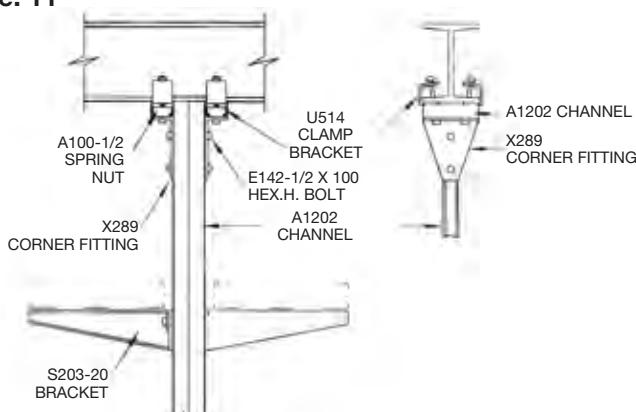
Two-sided heavy-duty application

Example: 10



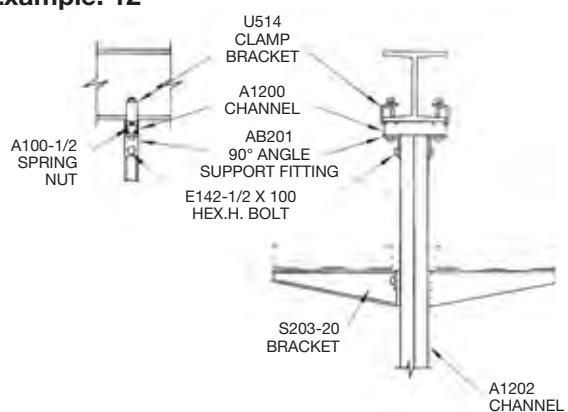
Heavy-duty bracket application

Example: 11



Brackets parallel to beam

Example: 12



Brackets perpendicular to beam

Technical Information

Why specify our Cable Tray?

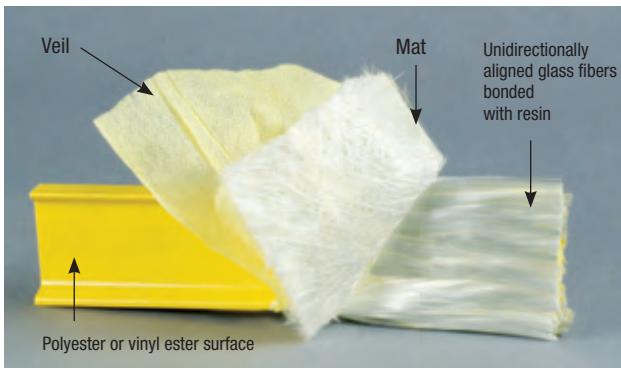
Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. Subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater – Nonmetallic cable tray has stood up!

Nonmetallic cable tray gives you the load capacity of steel plus the inherent characteristics afforded by our Pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products. Nonmetallic cable tray will not rust, nor does it ever require painting. Available in both polyester and vinylester resin systems, they are manufactured to meet ASTM E-84, Class 1 Flame rating and self-extinguishing requirements of ASTM D-635.

The CSA/NEMA loadings, both listed in this document, are load-tested in accordance with NEMA/CSA guidelines.



Nonmetallic cable tray comes in two colours: Slate grey (polyester resin) and beige (vinyl ester resin). Custom colours are available on request. Minimum quantities required. Please contact your Regional Sales Office.



A surface veil is applied during the pultrusion process to ensure a resin-rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier.

Technical Information

Typical Properties of Pultruded Components

Thomas & Betts nonmetallic cable tray systems are manufactured from glass fiber-reinforced plastic shapes that meet ASTM E-84, Class 1 Flame Rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to ensure a resin-rich surface and ultraviolet resistance.

| Properties | Test Method | Unit/Value | 3 in. & 4 in. Cable Channel | | 6 in. Cable Tray | |
|----------------------------------|-------------|---------------------|-----------------------------|------------|------------------|------------|
| | | | Longitudinal | Transverse | Longitudinal | Transverse |
| Tensile Strength | ASTM D638 | psi | 30,000 | 7,000 | 40,000 | 4,500 |
| Tensile Modulus | ASTM D638 | psi x 106 | 2.5 | 0.8 | 3.2 | 0.6 |
| Flexural Strength | ASTM D790 | psi | 30,000 | 10,000 | 40,000 | 10,000 |
| Flexural Modulus | ASTM D790 | psi x 106 | 1.6 | 0.8 | 2.1 | 0.8 |
| Izod Impact | ASTM D256 | ft-lbs/in | 28 | 4 | 28 | 4 |
| Compressive Strength | ASTM D695 | psi | 30,000 | 15,000 | 40,000 | 10,000 |
| Compressive Modulus | ASTM D695 | psi x 106 | 2.5 | 1.0 | 3.2 | 0.7 |
| Barcol Hardness | ASTM D2583 | - | 45 | 45 | 45 | 45 |
| Shear Strength | ASTM D732 | psi | 5,500 | 5,500 | 5,500 | 5,500 |
| Density | ASTM D1505 | lbs/in ³ | 0.058-0.62 | - | 0.072-0.076 | - |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | 5.0 x 10-6 | - | 5.0 x 10-6 | - |
| Water Absorption | ASTM D570 | Max % | 0.5 | - | 0.5 | - |
| Dielectric Strength | ASTM D149 | V/mil (vpm) | 200 | - | 200 | - |
| Flammability Classification | UL94 | VO | - | - | - | - |
| Flame Spread | ASTM E-84 | 20 Max | - | - | - | - |

Flame Rating Results

| Test | Ignition | Burning | Rating |
|-----------------------------------|------------|------------|--------|
| Flame Resistance (FTMS 406-2023) | 75 seconds | 75 seconds | - |
| Intermittent Flame Test (HLT- 15) | - | - | 100 |
| Flammability Test (ASTM D635) | None | 0 second | - |

Technical Information

Corrosion Guide

The information shown in this corrosion guide is based on full immersion laboratory tests and data generated from resin manufacturers. It should be noted that in some of the environments listed, splashes and spills may result in a more corrosive situation than indicated due to the evaporation of water. Regular wash down is recommended in these situations.

All data represents the best available information and is believed to be correct. The data should not be construed as a warranty of performance for that product as presented in these tables. User tests should be performed to determine suitability of service if there is any doubt or concern. Such variables as concentration, temperature, time of exposure and combined chemical effects of mixtures of chemicals make it impossible to specify the exact suitability of fiber-reinforced plastics in all environments. Thomas & Betts will be happy to supply material samples for testing. These recommendations should only be used as a guide and Thomas & Betts does not take responsibility for design or suitability of materials for service intended. In no event will Thomas & Betts be liable for any consequential or special damages for any defective material or workmanship including, without limitation, labor charges or other expenses or damage to property resulting from loss of materials or profits or increased expenses of operations.

| CHEMICAL ENVIRONMENT | POLYESTER | | VINYL ESTER | |
|-----------------------|-----------|-------------------|-------------|-------------------|
| | Max Wt. % | Max Oper. Temp °F | Max Wt. % | Max Oper. Temp °F |
| Acetic Acid | 10 | 190 | 10 | 210 |
| Acetic Acid | 50 | 125 | 50 | 180 |
| Acetone | N/R | N/R | 100 | 75 |
| Aluminum Chloride | SAT | 170 | SAT | 200 |
| Aluminum Hydroxide | SAT | 160 | SAT | 170 |
| Aluminum Nitrate | SAT | 150 | SAT | 170 |
| Aluminum Sulfate | SAT | 180 | SAT | 200 |
| Ammonium Chloride | SAT | 170 | SAT | 190 |
| Ammonium Hydroxide | 1 | 100 | 10 | 150 |
| Ammonium Hydroxide | 28 | N/R | 28 | 100 |
| Ammonium Carbonate | N/R | N/R | SAT | 150 |
| Ammonium Bicarbonate | 15 | 125 | SAT | 130 |
| Ammonium Nitrate | SAT | 160 | SAT | 190 |
| Ammonium Persulfate | SAT | N/R | SAT | 150 |
| Ammonium Sulfate | SAT | 170 | SAT | 200 |
| Amyl Alcohol | ALL | N/R | ALL | 90 |
| Amyl Alcohol Vapor | - | 140 | - | 120 |
| Benzene | N/R | N/R | 100 | 140 |
| Benzene Sulfonic Acid | 25 | 110 | SAT | 200 |
| Benzoic Acid | SAT | 150 | SAT | 200 |
| Benzoyl Alcohol | 100 | N/R | 100 | N/R |
| Borax | SAT | 170 | SAT | 200 |
| Calcium Carbonate | SAT | 170 | SAT | 200 |
| Calcium Chloride | SAT | 170 | SAT | 200 |
| Calcium Hydroxide | 25 | 70 | 25 | 165 |
| Calcium Nitrate | SAT | 180 | SAT | 200 |
| Calcium Sulfate | SAT | 180 | SAT | 200 |
| Carbon Disulfide | N/R | N/R | N/R | N/R |
| Carbonic Acid | SAT | 130 | SAT | 180 |
| Carbon Dioxide Gas | - | 200 | - | 200 |
| Carbon Monoxide Gas | - | 200 | - | 200 |
| Carbon Tetrachloride | N/R | N/R | 100 | 75 |
| Chlorine, Dry Gas | - | 140 | - | 170 |
| Chlorine, Wet Gas | - | N/R | - | 180 |
| Chlorine Water | SAT | 80 | SAT | 180 |

-: No information available

N/R: Not recommended

SAT: Saturated solution

FUM: Fumes

| CHEMICAL ENVIRONMENT | POLYESTER | | VINYL ESTER | |
|-----------------------|-----------|-------------------|-------------|-------------------|
| | Max Wt. % | Max Oper. Temp °F | Max Wt. % | Max Oper. Temp °F |
| Chromic Acid | 5 | 70 | 10 | 120 |
| Citric Acid | SAT | 170 | SAT | 200 |
| Copper Chloride | SAT | 170 | SAT | 200 |
| Copper Cyanide | SAT | 170 | SAT | 200 |
| Copper Nitrate | SAT | 170 | SAT | 200 |
| Crude Oil, Sour | 100 | 170 | 100 | 200 |
| Cyclohexane | N/R | N/R | N/R | N/R |
| Cyclohexane, Vapor | ALL | 100 | ALL | 130 |
| Diesel Fuel | 100 | 160 | 100 | 180 |
| Diethyl Ether | N/R | N/R | N/R | N/R |
| Dimethyl Phthalate | N/R | N/R | N/R | N/R |
| Ethanol | 50 | 75 | 50 | 90 |
| Ethyl Acetate | N/R | N/R | N/R | N/R |
| Ethylene Chloride | N/R | N/R | N/R | N/R |
| Ethylene Glycol | 100 | 90 | 100 | 200 |
| Fatty Acids | SAT | 180 | SAT | 200 |
| Ferric Chloride | SAT | 170 | SAT | 200 |
| Ferric Nitrate | SAT | 170 | SAT | 200 |
| Ferric Sulfate | SAT | 170 | SAT | 200 |
| Ferrous Chloride | SAT | 170 | SAT | 200 |
| Fluoboric Acid | N/R | N/R | SAT | 165 |
| Fluosilicic Acid | N/R | N/R | SAT | 70 |
| Formaldehyde | 50 | 75 | 50 | 100 |
| Formic Acid | N/R | N/R | 50 | 100 |
| Gasoline | 100 | 80 | 100 | 150 |
| Glucose | 100 | 170 | 100 | 200 |
| Glycerine | 100 | 150 | 100 | 200 |
| Heptane | 100 | 110 | 100 | 200 |
| Hexane | 100 | 90 | 100 | 130 |
| Hydrobromic Acid | 50 | 120 | 50 | 120 |
| Hydrochloric Acid | 10 | 150 | 10 | 200 |
| Hydrochloric Acid | 20 | 140 | 20 | 190 |
| Hydrochloric Acid | 37 | 75 | 37 | 95 |
| Hydrochloric Acid | N/R | N/R | 15 | 80 |
| Hydrogen Bromide, Dry | 100 | 190 | 100 | 200 |

Technical Information

Corrosion Guide (cont'd)

| CHEMICAL ENVIRONMENT | POLYESTER | | VINYL ESTER | |
|-------------------------|-----------|-------------------|-------------|-------------------|
| | Max Wt. % | Max Oper. Temp °F | Max Wt. % | Max Oper. Temp °F |
| Hydrogen Bromide, Wet | 100 | 75 | 100 | 130 |
| Hydrogen Chloride | - | 120 | - | 200 |
| Hydrogen Peroxide | 5 | 100 | 30 | 100 |
| Hydrogen Sulfide, Dry | 100 | 170 | 100 | 210 |
| Hydrogen Sulfide, Wet | 100 | 170 | 100 | 210 |
| Hypochlorous Acid | 20 | 80 | 20 | 150 |
| Isopropyl Alcohol | N/R | N/R | 15 | 80 |
| Kerosene | 100 | 140 | 100 | 80 |
| Lactic Acid | SAT | 170 | SAT | 200 |
| Lead Acetate | SAT | 170 | SAT | 200 |
| Lead Chloride | SAT | 140 | SAT | 200 |
| Lead Nitrate | SAT | - | SAT | 200 |
| Linseed Oil | 100 | 150 | 100 | 190 |
| Lithium Chloride | SAT | 150 | SAT | 190 |
| Magnesium Carbonate | SAT | 140 | SAT | 170 |
| Magnesium Chloride | SAT | 170 | SAT | 200 |
| Magnesium Hydroxide | SAT | 150 | SAT | 190 |
| Magnesium Nitrate | SAT | 140 | SAT | 180 |
| Magnesium Sulfate | SAT | 170 | SAT | 190 |
| Mercuric Chloride | SAT | 150 | SAT | 190 |
| Mercurous Chloride | SAT | 140 | SAT | 180 |
| Methyl Ethyl ketone | N/R | N/R | N/R | N/R |
| Mineral Oils | 100 | 170 | 100 | 200 |
| Monochlorobenzene | N/R | N/R | N/R | N/R |
| Naphtha | 100 | 140 | 100 | 170 |
| Nickel Chloride | SAT | 170 | SAT | 200 |
| Nickel Nitrate | SAT | 170 | SAT | 200 |
| Nickel Sulfate | SAT | 170 | SAT | 200 |
| Nitric Acid | 5 | 140 | 5 | 150 |
| Nitric Acid | 20 | 70 | 20 | 100 |
| Oleic Acid | 100 | 170 | 100 | 90 |
| Oxalic Acid | ALL | 75 | ALL | 120 |
| Paper Mill Liquors | - | 100 | - | 120 |
| Perchloroethylene | 100 | N/R | 100 | N/R |
| Perchloric Acid | N/R | N/R | 10 | 150 |
| Perchloric Acid | N/R | N/R | 30 | 80 |
| Phosphoric Acid | 10 | 160 | 10 | 200 |
| Phosphoric Acid | 100 | 120 | 100 | 200 |
| Potassium Alum. Sulfate | SAT | 170 | SAT | 200 |
| Potassium Bicarbonate | 50 | 80 | 50 | 140 |
| Potassium Bichromate | SAT | 170 | SAT | 200 |
| Potassium Carbonate | 10 | N/R | 10 | 120 |
| Potassium Chloride | SAT | 170 | SAT | 200 |

-: No information available

N/R: Not recommended

SAT: Saturated solution

FUM: Fumes

| CHEMICAL ENVIRONMENT | POLYESTER | | VINYL ESTER | |
|------------------------|-----------|-------------------|-------------|-------------------|
| | Max Wt. % | Max Oper. Temp °F | Max Wt. % | Max Oper. Temp °F |
| Potassium Hydroxide | N/R | N/R | 25 | 150 |
| Potassium Nitrate | SAT | 170 | SAT | 200 |
| Potassium Permanganate | 100 | 80 | 100 | 210 |
| Potassium Sulfate | SAT | 170 | SAT | 200 |
| Propylene Glycol | ALL | 170 | ALL | 200 |
| Phthalic Acid | - | - | SAT | 200 |
| Sodium Acetate | SAT | 160 | SAT | 200 |
| Sodium Benzoate | SAT | 170 | SAT | 200 |
| Sodium Bicarbonate | SAT | 160 | SAT | 175 |
| Sodium Bisulfate | ALL | 170 | ALL | 200 |
| Sodium Bromide | ALL | 170 | ALL | 200 |
| Sodium Carbonate | 10 | 80 | 35 | 160 |
| Sodium Chloride | SAT | 170 | SAT | 200 |
| Sodium Cyanide | SAT | 170 | SAT | 200 |
| Sodium Hydroxide | N/R | N/R | 50 | 150 |
| Sodium Hydroperoxide | N/R | N/R | 25 | 80 |
| Sodium Hypochloride | N/R | N/R | 10 | 150 |
| Sodium Monophosphate | SAT | 170 | SAT | 200 |
| Sodium Nitrate | SAT | 170 | SAT | 200 |
| Sodium Sulfate | SAT | 170 | SAT | 200 |
| Sodium Thiosulfate | ALL | 100 | ALL | 120 |
| Stannic Chloride | SAT | 160 | SAT | 190 |
| Styrene | N/R | N/R | N/R | N/R |
| Sulfated Detergent | 0/50 | 170 | 0/50 | 200 |
| Sulfur Dioxide | 100 | 80 | 100 | 200 |
| Sulfur Trioxide | 100 | 80 | 100 | 200 |
| Sulfuric Acid | 93 | N/R | 93 | N/R |
| Sulfuric Acid | 50 | N/R | 50 | 180 |
| Sulfuric Acid | 25 | 75 | 25 | 190 |
| Sulfurous Acid | SAT | 80 | N/R | N/R |
| Tartaric Acid | SAT | 170 | SAT | 200 |
| Tetrachloroethylene | N/R | N/R | FUM | 75 |
| Toluene | N/R | N/R | N/R | N/R |
| Trisodium Phosphate | N/R | N/R | SAT | 175 |
| Urea | SAT | 130 | SAT | 140 |
| Vinegar | 100 | 170 | 100 | 200 |
| Water, Distilled | 100 | 170 | 100 | 190 |
| Water, Tap | 100 | 170 | 100 | 190 |
| Water, Sea | SAT | 170 | SAT | 190 |
| Xylene | N/R | N/R | N/R | N/R |
| Zinc Chloride | SAT | 170 | SAT | 200 |
| Zinc Nitrate | SAT | 170 | SAT | 200 |
| Zinc Sulfate | SAT | 170 | SAT | 200 |

Technical Information

CSA & NEMA Loading Classes

LOADING

Select the Tray Class / Load Capacity

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1.

Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable.

TABLE 1

TRADITIONAL NEMA DESIGNATIONS USA see Clauses 4.8.1, 4.8.2 and 6.1.2 (c)

| Load | | Span, m (ft.) | | | | |
|------|----------|---------------|---------|----------|----------|----------|
| kg/m | (lb/ft.) | 1.5 (5) | 2.4 (8) | 3.0 (10) | 3.7 (12) | 6.0 (20) |
| 37 | (25) | 5AA | 8AA | 10AA | 12AA | 20AA |
| 74 | (50) | 5A | 8A | 10A | 12A | 20A |
| 112 | (75) | - | 8B | - | 12B | 20B |
| 149 | (100) | - | 8C | - | 12C | 20C |

TABLE 2

LOAD / SPAN CLASS DESIGNATION CANADA see Clauses 4.8.1, 4.8.2 and 6.1.2(c)

| Load | | Span, m (ft.) | | | | | | |
|------|----------|---------------|-----------|-----------|----------|----------|------------|----------|
| kg/m | (lb/ft.) | 1.5 (5) | 2.0 (6.5) | 2.5 (8.2) | 3.0 (10) | 4.0 (13) | 5.0 (16.4) | 6.0 (20) |
| 37 | (25) | | | | A | | | |
| 45 | (30) | | | A | | | | |
| 62 | (42) | | A | | | | | |
| 67 | (45) | | | | | | D | |
| 82 | (55) | | | | | D | | |
| 97 | (65) | | | | C | | | |
| 99 | (67) | A | | | | | | |
| 112 | (75) | | | | | | E | |
| 113 | (76) | | | | | D | | |
| 119 | (80) | | | C | | | | |
| 137 | (92) | | | | | | E | |
| 164 | (110) | | C | | | | | |
| 179 | (120) | | | | D | | | |
| 189 | (127) | | | | | E | | |
| 259 | (174) | C | | | | | | |
| 299 | (200) | | | | E | | | |

Technical Information

LOADING CAPACITY

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

| | |
|-------------|---|
| Cable Loads | The cable load is the total weight, expressed in lb./ft., of all the cables that will be placed in the cable tray. |
| Snow Loads | Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lb. per square foot should be used. |
| Ice Loads | If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weights 57 lb. per cubic foot. |
| Wind Loads | All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on side rails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps. |

CONCENTRATED LOADS

A concentrated static load is not included in Table 1 (page A238). Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/metre (pounds/linear foot), using the following formula, and added to the static weight of cable in the tray:

$$We = 2 X \text{ (concentrated static load, kg (lb.))}$$

Span length, m (ft.)

This combined load may be used to select a suitable load/span designation. If the combined load exceeds the working load shown on page A238, the manufacturer should be consulted.

EFFECT OF TEMPERATURE

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

| Temperature | | Approximate % of Strength |
|-------------|------|---------------------------|
| °C | (°F) | |
| 23.8 | 75 | 100 |
| 37.7 | 100 | 90 |
| 51.6 | 125 | 78 |
| 65.5 | 150 | 68 |
| 79.4 | 175 | 60 |
| 93.3 | 200 | 52 |

NEMA Standard 8-10-1986

If unusual temperature conditions exist, the manufacturer should be consulted.

Technical Information

THERMAL CONTRACTION AND EXPANSION

It is important that thermal contraction and expansion be considered when installing cable tray systems. The length of the straight cable tray runs and the temperature differential govern the number of expansion splice plates required (see Figure 1 below). The cable tray should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations (see Figure 2). The cable tray should be permitted longitudinal movement in both directions from that fixed point.

Accurate gap setting at the time of installation is necessary for the proper operation of the expansion splice plates. The following procedure should assist the installer in determining the correct gap: (see Figure 3)

1. Plot the highest expected tray temperature on the maximum temperature line.
2. Plot the lowest expected tray temperature on the minimum temperature line.
3. Draw a line between the maximum and minimum points.
4. Plot the tray temperature at the time of installation to determine the gap setting.

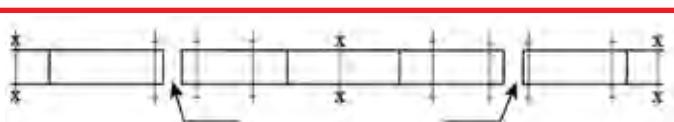
FIGURE 1
Expansion or Contraction for Various Temperature Differences

| Temperature differential | | Max. distance between expansion connector* for 1 in. expansion | | Max. distance between expansion connector* for 5/8 in. expansion | |
|--------------------------|------|--|--------|--|--------|
| °C | (°F) | metres | (feet) | metres | (feet) |
| 14 | 25 | 203,3 | 667 | 127,1 | 417 |
| 28 | 50 | 101,5 | 333 | 63,3 | 208 |
| 42 | 75 | 67,6 | 222 | 42,3 | 139 |
| 56 | 100 | 50,9 | 167 | 31,7 | 104 |
| 70 | 125 | 40,5 | 133 | 25,2 | 83 |
| 83 | 150 | 33,8 | 111 | 21,0 | 69 |
| 97 | 175 | 28,9 | 95 | 17,9 | 59 |

Gap set and hold down/guide location, see installation instruction above.

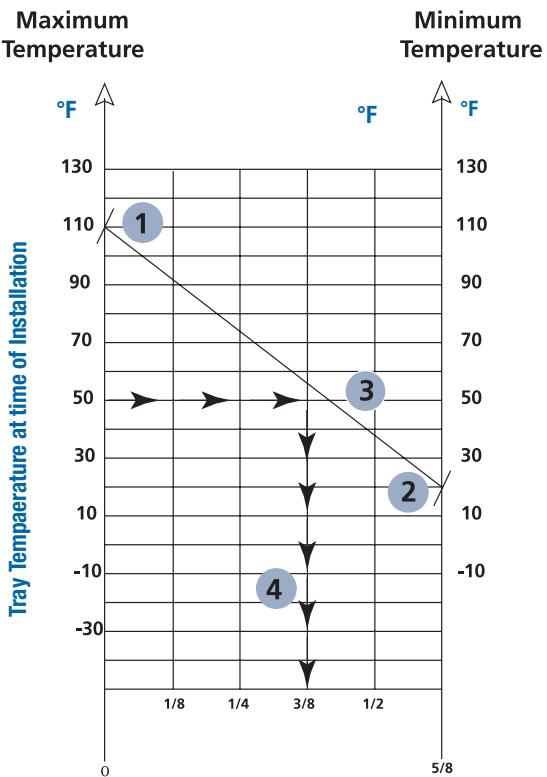
*1 slotted hole in each expansion connector allow 5/8 total expansion or contraction.

FIGURE 2
Typical Cable Tray Installation



X : Denotes hold-down clamp (anchor) at support.
- : Denotes expansion guide/clamp at support.

FIGURE 3
Proper Gap Settings



Technical Information

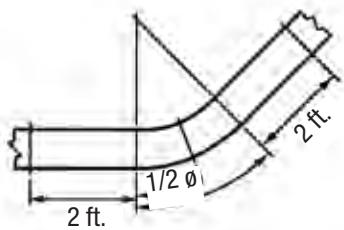
Installation Guidelines

Installation of Thomas & Betts nonmetallic cable tray should be made in accordance with the standards set by NEMA VE2 Publication and CSA Standards.

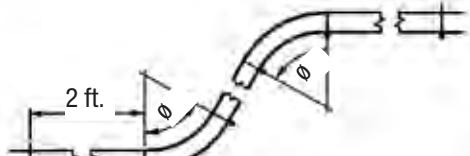
- Always observe common safety practices when assembling tray and fittings. Installations generally require some field cutting. Dust created during fabrication presents no serious health hazard, but skin irritation may be experienced by some workers.
- Operators of saws and drills should wear masks, long-sleeve shirts or coveralls.
- Fabrication with nonmetallic cable tray is relatively easy and comparable to working with wood. Ordinary hand tools may be used in most cases.
- Avoid excessive pressure when sawing or drilling. Too much force can rapidly dull tools and also produce excessive heat which softens the bonding resin in the nonmetallic cable tray resulting in a ragged edge rather than a cleancut edge.
- Field cutting is simple and can be accomplished with a circular power saw with an abrasive cut-off wheel (masonry type) or hack saw (24 to 32 teeth per inch).
- Drill nonmetallic as you would drill hardwood. Standard twist drills are more than adequate.
- Any surface that has been drilled, cut, sanded or otherwise broken, must be sealed with a compatible resin.
- Carbide tipped saw blades and drill bits are recommended when cutting large quantities.
- Support the nonmetallic cable tray material firmly during cutting operations to keep material from shifting which may cause chipping at the cut edge.
- Each tray section length should be equal to or greater than the support span.
- When possible, the splice should be located at quarter span.
- Fittings should be supported as per NEMA VE2.

Technical Information

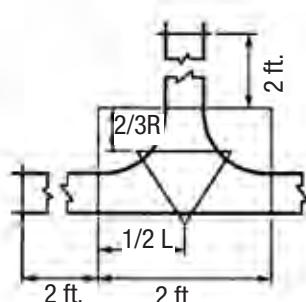
CABLE TRAY SUPPORT LOCATIONS FOR FITTINGS



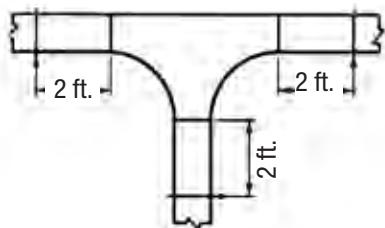
Horizontal Elbow



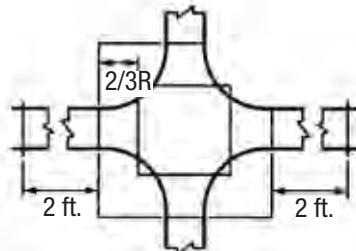
Vertical Elbow



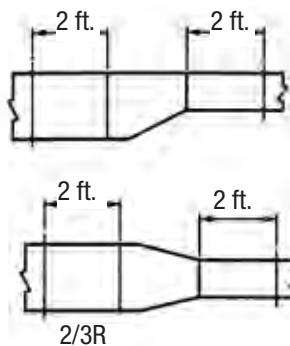
Horizontal Tee



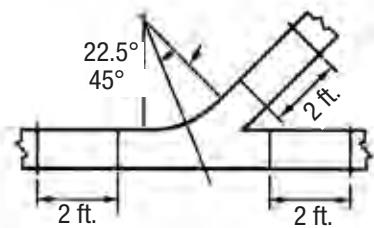
Horizontal Tee



Horizontal Cross



Horizontal Reducer



Horizontal Wye

Note: $\emptyset = 30^\circ, 45^\circ, 60^\circ, 90^\circ$ (degree of fitting)

Technical Information

Sample Recommended Specifications

CABLE TRAY SYSTEM

- Cable tray system shall be made of straight sections, fittings and accessories as defined in the latest CSA/NEMA standards publication.

CABLE TRAY DESIGN

- Straight section structural elements; side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinyl ester resin.
- Pultruded shapes shall be constructed with a surface veil to ensure a resin-rich and ultraviolet resistant surface.
- Pultruded shapes shall meet ASTM E-84, Class 1 flame-rating and self-extinguishing requirements of ASTM D-635.

CONSTRUCTION

- Straight section lengths will be 120 inches (10 ft.) or 240 inches (20 ft.) standard.
- Side rails will be inward «C» configuration and be predrilled to accept splice plates.
- Overall heights shall be 6 in., 4 in. or 3 in. respectively.
- Loading depths for cable tray systems shall be 5 in., 3 in. or 2 in. as per CSA/NEMA tolerances
- Loading classifications and test specimens shall be per CSA/NEMA.

FITTINGS

- Molded fittings shall be formed with a minimum 3 in. tangent following the radius.
- 3 in. or 5 in. loading depth systems shall have 90° and 45° molded fittings in 12 in. or 24 in. radius.
- All fittings not included in above statement should be of mitered construction.
- Width (usable inside tray width) shall be 6 in., 9 in., 12 in., 18 in., 24 in., 30 in. or 36 in.
- Outside width shall not exceed inside width by more than a total of 2 in.
- Straight and expansion splice plates will be of stainless steel or fiberglass design with an eight-bolt pattern in 5 in. fill systems and four-bolt pattern in 3 in. and 2 in. fill systems.
- Dimension tolerances will be per CSA/NEMA.
- Cable tray must have integral connection between side rails and rungs consisting of Nonmetallic mechanical fasteners and adhesive bonding.

MANUFACTURE

- All manufacturing practices will be in accordance with CSA/NEMA.
- Cable trays shall be by Thomas & Betts, or approved CSA/NEMA member.

Technical Information

Application Photos

Nonmetallic Cable Tray Systems

have been tested and proven in the harsh environment of the offshore oil and gas industry. Subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater –

**Nonmetallic Cable Tray Systems
have stood up to these challenges.**



Horizontal and vertical drops, exterior installation



Horizontal (suspended) tray, with vertical drop to machinery below



Horizontal Bends change direction of tray suspended from deck above



Vertical cable drop out from horizontal run

Straight Lengths

Straight Section Numbering System

To order

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalogue number.



Selection process

| 1 | 2 | 3 | 4 | 5 | 6 |
|-------------------------------|--|---|--|-------------------------------------|---|
| Nonmetallic cable tray system | Select the correct Thomas & Betts serie cable tray using the load data for straight sections found on pages A244-A248. | Select the resin required. Refer to Corrosion Guide on pages A234-A235 of the Technical information section for the effect of environmental conditions on the desired material. For the effective temperature range, see page A241 of the same section. | Select the rung spacing required to properly support cables in tray. | Select the desired width in inches. | Select the straight section length in inches. |

Straight section catalogue selector

| NM | - 4 | P | 09 | 24 | - 120 |
|-------------------|---------------------------|---|----------------------------|--|--------------------------------------|
| CABLE TRAY SYSTEM | Series | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | 3 4 6B 6C H6C | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 18 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |

Example: NM-4P0924-120 for 4 in. side rail, polyester resin, 9 in. rung spacing, 24 in. wide, 120 in. (10 ft.) length.

Note : One pair of stainless steel SS6 splice plates with SS6 hardware included with each length.

For other types of splice plates, see page A274-A276.

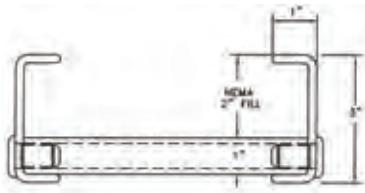
Straight Lengths

3 in. Straight Section



Straight section catalogue selector

| NM | - 3 | P | 09 | 24 | - 120 |
|-------------------|-------|---|----------------------|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | 3 | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |



Side Rail height : 3 in. (2 po loading depth)

Splice plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

Deflection factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%

Specifications

| Series | Safety Factor | Support Span (ft.) | | | | |
|----------------------------------|---------------|---------------------|-------|-------|-------|-------|
| | | 6 | 8 | 10 | 12 | 14 |
| Series 3: Loading-NEMA 8C | | | | | | |
| 3 | 1.5 | Design Load lb./ft. | 257 | 145 | 93 | 64 |
| | | Deflection in. | 1.3 | 2.3 | 3.7 | 5.3 |
| | | K Factor | 0.005 | 0.016 | 0.040 | 0.083 |
| | | | | | | 0.153 |

Loading

- CSA load class: C/3M
- NEMA 8C
- 12 in. rung spacing

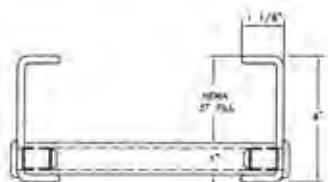
Straight Lengths

4 in. Straight Section



Straight section catalogue selector

| NM | - 4 | P | 09 | 24 | - 120 |
|-------------------|-------|---|----------------------------|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | 4 | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 18 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |



Side Rail height : 4 in. (3 in. loading depth)

Splice plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

Deflection factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%

Specifications

| Series | Safety Factor | Support Span (ft.) | | | | | |
|-----------------------------------|---------------|---------------------|-------|-------|-------|-------|-------|
| | | 10 | 12 | 14 | 16 | 18 | |
| Series 4: Loading-NEMA 12C | | | | | | | |
| 4 | 1.5 | Design Load lb./ft. | 157 | 109 | 80 | 61 | 48 |
| | | Deflection in. | 2.1 | 3.0 | 4.0 | 5.3 | 6.7 |
| | | K Factor | 0.013 | 0.028 | 0.050 | 0.087 | 0.140 |

Loading

- CSA load class: D/3M
- NEMA 12C
- 12 in. rung spacing

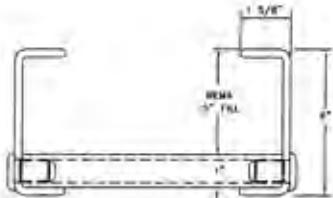
Straight Lengths

6 in. Straight Section



Straight section catalogue selector

| NM | - 6B | P | 09 | 24 | - 120 |
|-------------------|-------|---|----------------------------|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | 6B | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 18 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |



Side Rail Height : 6 in. (5 po loading depth)

Splice plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

Deflection factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%

Specifications

| Series | Safety Factor | Support Span (ft.) | | | | |
|------------------------------------|---------------|--------------------|-------|-------|-------|-------|
| | | 12 | 14 | 16 | 18 | 20 |
| Series 6B: Loading-NEMA 20B | | | | | | |
| 6B | 1.5 | Design Load lb./pi | 254 | 186 | 143 | 113 |
| | | Deflection in. | 1.6 | 2.2 | 2.8 | 3.6 |
| | | K Factor | 0.006 | 0.012 | 0.020 | 0.032 |
| | | | | | | 0.048 |

Loading

- CSA load class: E/6M
- NEMA 20B
- 12 in. rung spacing

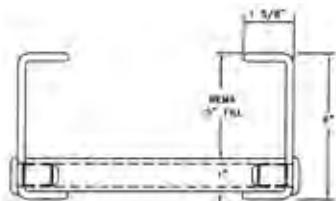
Straight Lengths

6 in. Straight Section



Straight section catalogue selector

| NM | - 6C | P | 09 | 24 | - 120 |
|-------------------|-------|---|----------------------|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | 6C | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |



Side Rail Height : 6 in. (5 po loading depth)

Splice plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

Deflection factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%

Specifications

| Series | Safety Factor | Support Span (ft.) | | | | |
|------------------------------------|---------------|--------------------|-------|-------|-------|-------|
| | | 12 | 14 | 16 | 18 | 20 |
| Series 6C: Loading-NEMA 20C | | | | | | |
| 6C | 1.5 | Design Load lb./pi | 356 | 262 | 200 | 158 |
| | | Deflection in. | 1.6 | 2.2 | 2.9 | 3.7 |
| | | K Factor | 0.004 | 0.008 | 0.015 | 0.023 |
| | | | | | | 0.136 |

Loading

- CSA load class: E/6M
- NEMA 20C
- 12 in. rung spacing

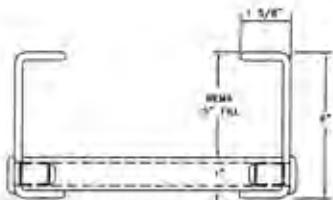
Straight Lengths

6 in. Straight Section



Straight section catalogue selector

| NM | - H6C | P | 09 | 24 | - 120 |
|-------------------|-------|---|--|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Material | Rung Spacing (in.) | Width (in.) | Length |
| Nonmetallic | H6C | P - Polyester resin V- Vinyl ester resin | 06 09 12 18 24 30 36 | 06 09 12 18 24 30 36 | 120 in. = 10 ft. 240 in. = 20 ft. |



Side rail height : 6 in. (5 po loading depth)

Splice plates

One pair of stainless steel SS6 splice plates with SS6 (316 Stainless Steel) hardware included.

Deflection factor

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%

Specifications

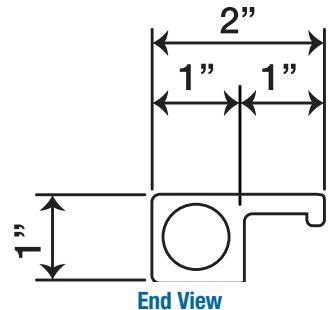
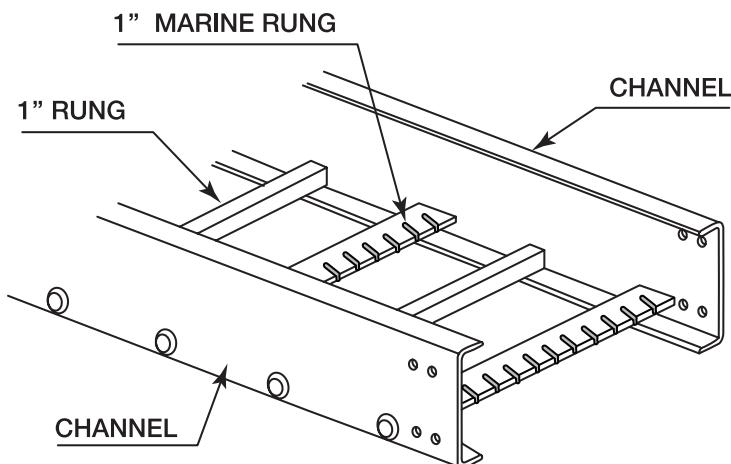
| Series | Safety Factor | Support Span (ft.) | | | | |
|---|---------------|--------------------|-------|-------|-------|-------|
| | | 12 | 14 | 16 | 18 | 20 |
| Series H6C: Loading-NEMA 20C-S.F.2.0 | | | | | | |
| H6C | 1.5 | Design Load lb./pi | 386 | 283 | 217 | 171 |
| | | Deflection in. | 1.8 | 2.4 | 3.2 | 4.0 |
| | | K Factor | 0.005 | 0.008 | 0.015 | 0.023 |
| | 2.0 | Design Load lb./pi | 289 | 212 | 163 | 129 |
| | | Deflection in. | 1.3 | 1.8 | 2.4 | 3.0 |
| | | K Factor | 0.004 | 0.008 | 0.015 | 0.023 |

Loading

- CSA load class: E/6M
- NEMA 20C
- 12 in. rung spacing

Fittings

Marine Rung Cable Tray

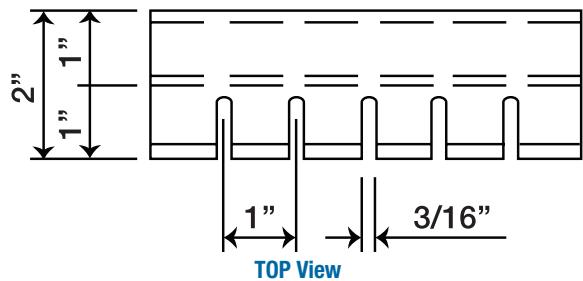


Meets U.S. Coast Guard Requirements

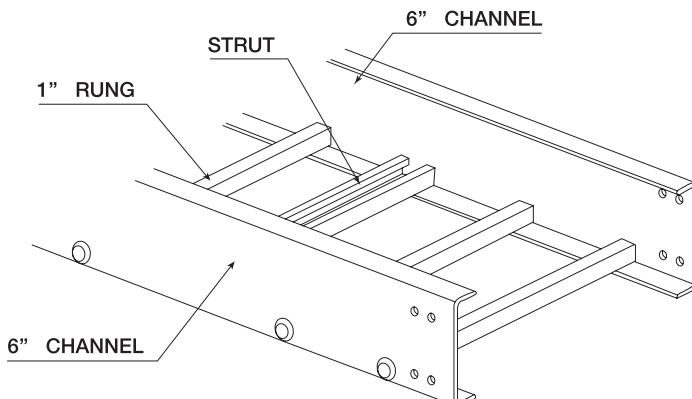
Catalogue Number: Add MR after rung spacing

Example: NM-4P-09MR-24-120

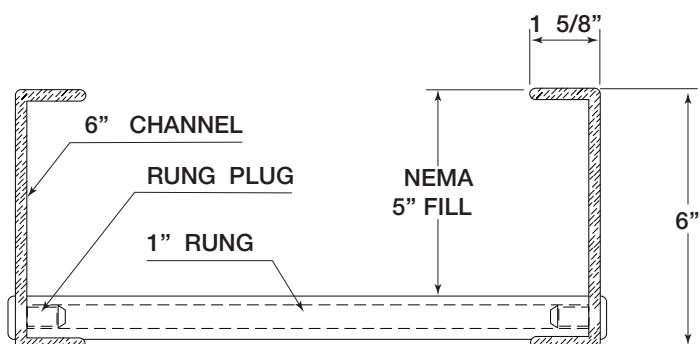
Call your Regional Sales Office for documentation.



Strut Rung Cable Tray



Isometric View



Section View

Catalogue Number: Add SR after rung spacing

Call your Regional Sales Office for documentation.

Fittings

Fittings Numbering System

To order

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalogue number.



Selection process

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|-------------------------------------|--|---|------------------------------------|---|--|--|
| Nonmetallic cable tray system | For mitered fittings when available | Select height of fitting required for application. This should match tray series and height selection. | Select the resin required. Refer to Corrosion Guide on pages A234-A235 of the Technical information section for the effect of environmental conditions on the desired material, for the effective temperature range, see page A237 of the same section. | Select the desired width in inches | Angle of fitting required for application | Type of fitting required for application. See choices below. | Radius required for application. This would be determined by allowable radius of cables being installed. Standard radius is 24". |

Straight section catalogue selector

| NM | - M | 4 | P | 24 | 90 | HB | 24 |
|-------------------|----------------|-------------|--|--|--------------------------|--|----------------|
| CABLE TRAY SYSTEM | Mitered | Series | Material | Width (in.) | Angle | Type | Radius (in.) |
| Nonmetallic | When available | 3 4 6 | P - Polyester resin V - Vinyl ester resin | 06 09 12 18 24 30 36 | 30° 45° 60° 90° | HB-Horizontal bend HT-Horizontal tee HX-Horizontal cross VI-Vertical Inside bend VO-Vertical outside bend VT-Vertical tee VTD-Vertical tee, down VTU-Vertical tee, up RR-Right reducer LR-Left reducer SR-Straight reducer HYR-Horizontal wye, right HYL-Horizontal wye, left CSF-Cable support fitting | 12 24 36 |

Note: One pair of stainless steel SS6 splice plates with SS6 hardware included with each Length.

For other types of splice plates, see page A274-A276.

Note: Custom fittings are available on request. Contact your Regional Sales Office.

Fittings

3 in. Horizontal Bends

Part Numbering System

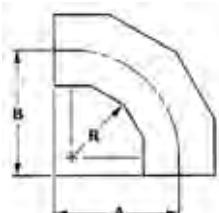
| | | | | | | | |
|-------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| NM | - M | 3 | P | 24 | 90 | HB | 12 |
| Nonmetallic | Mitered | Height | Material | Width | Angle | Type | Radius |

† For molded fitting, if available, please remove "M" in the catalogue number.
Ex: NM-4P-24-90HB12



Sample mitered fitting

90° Horizontal Bend



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|----------------------|------------------|--|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M3-(Matl)-06-90HB12 | 20-3/8 | 20-3/8 |
| | 9 | NM-M3-(Matl)-09-90HB12 | 21-7/8 | 21-7/8 |
| | 12 | NM-M3-(Matl)-12-90HB12 | 22-3/4 | 22-3/4 |
| | 18 | NM-M3-(Matl)-18-90HB12 | 26-5/16 | 26-5/16 |
| | 24 | NM-M3-(Matl)-24-90HB12 | 29-3/8 | 29-3/8 |

One pair of stainless steel SS6 splice plates with SS6 hardware included.

45° Horizontal Bend



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | | |
|----------------------|------------------|--|------------|---------|---------|
| | | | A (in.) | B (in.) | C (in.) |
| 12 | 6 | NM-M3-(Matl)-06-45HB12 | 22-13/16 | 9-7/16 | 13-3/8 |
| | 9 | NM-M3-(Matl)-09-45HB12 | 23-7/8 | 9-7/8 | 14 |
| | 12 | NM-M3-(Matl)-12-45HB12 | 24-7/8 | 10-5/16 | 14-5/8 |
| | 18 | NM-M3-(Matl)-18-45HB12 | 27 | 11-3/16 | 15-7/8 |
| | 24 | NM-M3-(Matl)-24-45HB12 | 29-1/8 | 12-1/16 | 17-1/16 |

One pair of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

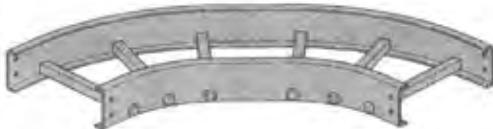
Fittings

4 in. Horizontal Bends

Part Numbering System

| | | | | | | | |
|-------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| NM | - M | 4 | P | 24 | 90 | HB | 12 |
| Nonmetallic | Mitered | Material | Width | Angle | Type | Radius | |

† For molded fitting, if available, please remove "M" in the catalogue number.
Ex: NM-4P-24-90HB12



Sample molded fitting

90° Horizontal Bend

|--|--|

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|----------------------|------------------|--------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-90HB12 | 22-1/4 | 22-1/4 |
| | 9 | NM-M4-(Matl)-09-90HB12 | 23-3/4 | 23-3/4 |
| | 12 | NM-M4-(Matl)-12-90HB12 † | 25-1/4 | 25-1/4 |
| | 18 | NM-M4-(Matl)-18-90HB12 † | 28-1/4 | 28-1/4 |
| | 24 | NM-M4-(Matl)-24-90HB12 † | 31-1/4 | 31-1/4 |
| | 30 | NM-M4-(Matl)-30-90HB12 † | 34-1/4 | 34-1/4 |
| | 36 | NM-M4-(Matl)-36-90HB12 † | 37-1/4 | 37-1/4 |
| 24 | 6 | NM-M4-(Matl)-06-90HB24 † | 34-1/4 | 34-1/4 |
| | 9 | NM-M4-(Matl)-09-90HB24 | 35-3/4 | 34-3/4 |
| | 12 | NM-M4-(Matl)-12-90HB24 † | 37-1/4 | 37-1/4 |
| | 18 | NM-M4-(Matl)-18-90HB24 † | 40-1/4 | 40-1/4 |
| | 24 | NM-M4-(Matl)-24-90HB24 † | 43-1/4 | 43-1/4 |
| | 30 | NM-M4-(Matl)-30-90HB24 | 46-1/4 | 46-1/4 |
| | 36 | NM-M4-(Matl)-36-90HB24 | 49-1/4 | 49-1/4 |
| 36 | 6 | NM-M4-(Matl)-06-90HB36 | 44-5/8 | 44-5/8 |
| | 9 | NM-M4-(Matl)-09-90HB36 | 46-1/8 | 46-1/8 |
| | 12 | NM-M4-(Matl)-12-90HB36 | 47-5/8 | 47-5/8 |
| | 18 | NM-M4-(Matl)-18-90HB36 | 50-5/8 | 50-5/8 |
| | 24 | NM-M4-(Matl)-24-90HB36 | 53-5/8 | 53-5/8 |
| | 30 | NM-M4-(Matl)-30-90HB36 | 56-5/8 | 56-5/8 |
| | 36 | NM-M4-(Matl)-36-90HB36 | 59-5/8 | 59-5/8 |

One pair of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

45° Horizontal Bend

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | | |
|----------------------|------------------|--------------------------|------------|----------|----------|
| | | | A (in.) | B (in.) | C (in.) |
| 12 | 6 | NM-M4-(Matl)-06-45HB12 | 15-3/4 | 6-1/2 | 9-3/16 |
| | 9 | NM-M4-(Matl)-09-45HB12 | 16-13/16 | 10-1/2 | 9-13/16 |
| | 12 | NM-M4-(Matl)-12-45HB12 † | 17-7/8 | 7-3/8 | 10-7/16 |
| | 18 | NM-M4-(Matl)-18-45HB12 † | 20 | 8-1/4 | 11-11/16 |
| | 24 | NM-M4-(Matl)-24-45HB12 † | 22-1/16 | 9-1/8 | 12-15/16 |
| | 30 | NM-M4-(Matl)-30-45HB12 † | 24-3/16 | 10 | 14-3/16 |
| | 36 | NM-M4-(Matl)-36-45HB12 † | 26-5/16 | 10-15/16 | 15-7/16 |
| 24 | 6 | NM-M4-(Matl)-06-45HB24 † | 24-3/16 | 10 | 14-3/16 |
| | 9 | NM-M4-(Matl)-09-45HB24 | 25-1/4 | 10-1/2 | 14-13/16 |
| | 12 | NM-M4-(Matl)-12-45HB24 † | 26-5/16 | 10-15/16 | 15-7/16 |
| | 18 | NM-M4-(Matl)-18-45HB24 † | 28-7/16 | 11-13/16 | 16-11/16 |
| | 24 | NM-M4-(Matl)-24-45HB24 † | 30-9/16 | 12-11/16 | 17-15/16 |
| | 30 | NM-M4-(Matl)-30-45HB24 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 36 | NM-M4-(Matl)-36-45HB24 | 34-13/16 | 14-7/16 | 20-3/8 |
| 36 | 6 | NM-M4-(Matl)-06-45HB36 | 39-7/8 | 16-1/2 | 23-3/8 |
| | 9 | NM-M4-(Matl)-09-45HB36 | 40-15/16 | 16-15/16 | 23-15/16 |
| | 12 | NM-M4-(Matl)-12-45HB36 | 42 | 17-3/8 | 24-9/16 |
| | 18 | NM-M4-(Matl)-18-45HB36 | 44-1/8 | 18-1/4 | 25-13/16 |
| | 24 | NM-M4-(Matl)-24-45HB36 | 46-3/16 | 19-1/8 | 27-1/16 |
| | 30 | NM-M4-(Matl)-30-45HB36 | 48-5/16 | 20 | 28-5/16 |
| | 36 | NM-M4-(Matl)-36-45HB36 | 50-7/16 | 20-7/8 | 29-9/16 |

Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.

Fittings

6 in. Horizontal Bends

Part Numbering System

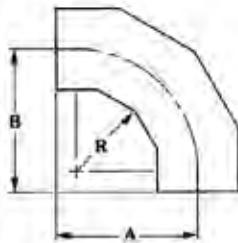
| | | | | | | | |
|-------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| NM | - M | 6 | P | 24 | 90 | HB | 12 |
| Nonmetallic | Mitered | Height | Material | Width | Angle | Type | Radius |

†For molded fitting,
if available, please remove
“M” in the catalogue number.
Ex: NM-6P2490HB12



Sample mitered fitting

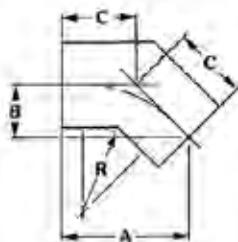
90° Horizontal Bend



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|----------------------|------------------|--------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-90HB12 | 20-3/8 | 20-3/8 |
| | 9 | NM-M4-(Matl)-09-90HB12 | 21-7/8 | 21-7/8 |
| | 12 | NM-M4-(Matl)-12-90HB12 † | 22-3/4 | 22-3/4 |
| | 18 | NM-M4-(Matl)-18-90HB12 † | 26-5/16 | 26-5/16 |
| | 24 | NM-M4-(Matl)-24-90HB12 † | 29-3/8 | 29-3/8 |
| | 30 | NM-M4-(Matl)-30-90HB12 † | 32-3/8 | 32-3/8 |
| | 36 | NM-M4-(Matl)-36-90HB12 † | 35-3/8 | 35-3/8 |
| 24 | 6 | NM-M4-(Matl)-06-90HB24 † | 34-1/4 | 34-1/4 |
| | 9 | NM-M4-(Matl)-09-90HB24 | 35-1/4 | 35-3/4 |
| | 12 | NM-M4-(Matl)-12-90HB24 † | 37-1/4 | 37-1/4 |
| | 18 | NM-M4-(Matl)-18-90HB24 † | 40-1/4 | 40-1/4 |
| | 24 | NM-M4-(Matl)-24-90HB24 † | 43-1/4 | 43-1/4 |
| | 30 | NM-M4-(Matl)-30-90HB24 | 46-1/4 | 46-1/4 |
| | 36 | NM-M4-(Matl)-36-90HB24 | 49-1/4 | 49-1/4 |
| 36 | 6 | NM-M4-(Matl)-06-90HB36 | 46-1/4 | 46-1/4 |
| | 9 | NM-M4-(Matl)-09-90HB36 | 47-3/4 | 47-3/4 |
| | 12 | NM-M4-(Matl)-12-90HB36 | 49-1/4 | 49-1/4 |
| | 18 | NM-M4-(Matl)-18-90HB36 | 52-1/4 | 52-1/4 |
| | 24 | NM-M4-(Matl)-24-90HB36 | 55-1/4 | 55-1/4 |
| | 30 | NM-M4-(Matl)-30-90HB36 | 58-1/4 | 58-1/4 |
| | 36 | NM-M4-(Matl)-36-90HB36 | 61-1/4 | 61-1/4 |

One pair of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

45° Horizontal Bend



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | | |
|----------------------|------------------|--------------------------|------------|----------|----------|
| | | | A (in.) | B (in.) | C (in.) |
| 12 | 6 | NM-M6-(Matl)-06-45HB12 | 22-13/16 | 9-7/16 | 13-3/8 |
| | 9 | NM-M6-(Matl)-09-45HB12 | 23-7/8 | 9-7/8 | 14 |
| | 12 | NM-M6-(Matl)-12-45HB12 | 24-7/8 | 10-5/16 | 14-5/8 |
| | 18 | NM-M6-(Matl)-18-45HB12 | 27 | 11-3/16 | 15-7/8 |
| | 24 | NM-M6-(Matl)-24-45HB12 | 29-1/8 | 12-1/16 | 17-1/16 |
| | 30 | NM-M6-(Matl)-30-45HB12 | 31-1/4 | 12-15/16 | 18-5/16 |
| | 36 | NM-M6-(Matl)-36-45HB12 | 33-3/8 | 13-13/16 | 19-9/16 |
| 24 | 6 | NM-M6-(Matl)-06-45HB24 | 24-3/16 | 10 | 14-3/16 |
| | 9 | NM-M6-(Matl)-09-45HB24 | 25-1/4 | 10-1/2 | 14-13/16 |
| | 12 | NM-M6-(Matl)-12-45HB24 † | 26-5/16 | 10-15/16 | 15-7/16 |
| | 18 | NM-M6-(Matl)-18-45HB24 † | 28-7/16 | 11-13/16 | 16-11/16 |
| | 24 | NM-M6-(Matl)-24-45HB24 † | 30-9/16 | 12-11/16 | 17-15/16 |
| | 30 | NM-M6-(Matl)-30-45HB24 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 36 | NM-M6-(Matl)-36-45HB24 † | 34-13/16 | 14-7/16 | 20-3/8 |
| 36 | 6 | NM-M6-(Matl)-06-45HB36 | 32-11/16 | 13-9/16 | 19-1/8 |
| | 9 | NM-M6-(Matl)-09-45HB36 | 33-3/4 | 14 | 19-3/4 |
| | 12 | NM-M6-(Matl)-12-45HB36 | 34-13/16 | 14-7/16 | 20-3/8 |
| | 18 | NM-M6-(Matl)-18-45HB36 | 36-15/16 | 15-5/16 | 21-5/8 |
| | 24 | NM-M6-(Matl)-24-45HB36 | 39-1/16 | 16-3/16 | 22-7/8 |
| | 30 | NM-M6-(Matl)-30-45HB36 | 41-3/16 | 17-1/16 | 24-1/8 |
| | 36 | NM-M6-(Matl)-36-45HB36 | 43-5/16 | 17-15/16 | 25-3/8 |

One pair of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.

Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

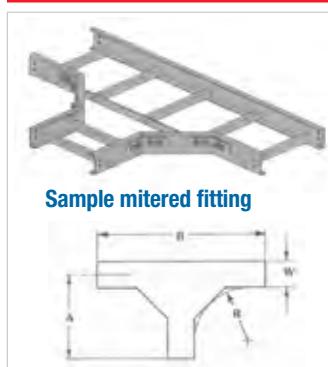
3 in. Horizontal Tees and Crosses

Part Numbering System

NM - M 3 P 24 HT 12

Mitered
Material
Width
Type
Radius

Horizontal Tee



-R-Bend Radius (in.)

12

Tray Width (in.)

Cat. No.

Dimensions (in.)

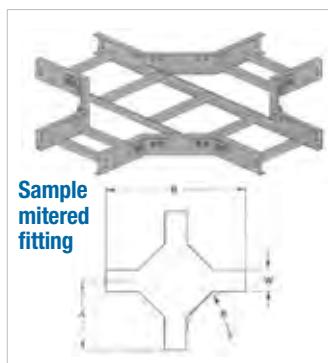
A (in.)

B (in.)

| | | | |
|----|----------------------|--------|--------|
| 6 | NM-M3-(Matl)-06-HT12 | 19-1/4 | 38 |
| 9 | NM-M3-(Matl)-09-HT12 | 20-3/4 | 41-1/2 |
| 12 | NM-M3-(Matl)-12-HT12 | 22-1/4 | 44-1/2 |
| 18 | NM-M3-(Matl)-18-HT12 | 25-1/4 | 50-1/2 |
| 24 | NM-M3-(Matl)-24-HT12 | 28-1/4 | 56-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

Horizontal Cross



-R-Bend Radius (in.)

12

Tray Width (in.)

Cat. No.

Dimensions (in.)

A (in.)

B (in.)

| | | | |
|----|------------------------|--------|--------|
| 6 | NM-M3-(Matl)-06-45HX12 | 19-1/4 | 38-1/2 |
| 9 | NM-M3-(Matl)-09-45HX12 | 20-3/4 | 44-1/2 |
| 12 | NM-M3-(Matl)-12-45HX12 | 22-1/4 | 44-1/2 |
| 18 | NM-M3-(Matl)-18-45HX12 | 25-1/4 | 50-1/2 |
| 24 | NM-M3-(Matl)-24-45HX12 | 28-1/4 | 56-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

4 in. Horizontal Tees and Crosses

| Part Numbering System | | | | |
|-----------------------|---------|--------|----------|--------|
| NM | - M | 4 | P | 24 |
| Nonmetallic | Mitered | Height | Material | Width |
| | | | Type | Radius |

† For molded fitting, if available, please remove "M" in the catalogue number.

Ex: NM-4P-24HT12



Horizontal Tee

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|----------------------|------------------|------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-HT12 † | 22-1/4 | 44-1/2 |
| | 9 | NM-M4-(Matl)-09-HT12 † | 23-3/4 | 47-1/2 |
| | 12 | NM-M4-(Matl)-12-HT12 † | 25-1/4 | 50-1/2 |
| | 18 | NM-M4-(Matl)-18-HT12 † | 28-1/4 | 56-1/2 |
| | 24 | NM-M4-(Matl)-24-HT12 † | 31-1/4 | 62-1/2 |
| | 30 | NM-M4-(Matl)-30-HT12 † | 34-1/4 | 68-1/2 |
| | 36 | NM-M4-(Matl)-36-HT12 † | 37-1/4 | 74-1/2 |
| 24 | 6 | NM-M4-(Matl)-06-HT24 † | 34-1/4 | 68-1/2 |
| | 9 | NM-M4-(Matl)-09-HT24 † | 35-3/4 | 71-1/2 |
| | 12 | NM-M4-(Matl)-12-HT24 † | 37-1/4 | 74-1/2 |
| | 18 | NM-M4-(Matl)-18-HT24 † | 40-1/4 | 80-1/2 |
| | 24 | NM-M4-(Matl)-24-HT24 † | 43-1/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-30-HT24 † | 46-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-36-HT24 † | 49-1/4 | 98-1/2 |
| 36 | 6 | NM-M4-(Matl)-06-HT36 | 43-1/4 | 86-1/2 |
| | 9 | NM-M4-(Matl)-09-HT36 | 44-3/4 | 89-1/2 |
| | 12 | NM-M4-(Matl)-12-HT36 | 46-1/4 | 92-1/2 |
| | 18 | NM-M4-(Matl)-18-HT36 | 49-1/4 | 98-1/2 |
| | 24 | NM-M4-(Matl)-24-HT36 | 52-1/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-30-HT36 | 55-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-36-HT36 | 58-1/4 | 116-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Horizontal Cross

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|----------------------|------------------|------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-HX12 † | 22-1/4 | 44-1/2 |
| | 9 | NM-M4-(Matl)-09-HX12 † | 23-3/4 | 47-1/2 |
| | 12 | NM-M4-(Matl)-12-HX12 † | 25-1/4 | 50-1/2 |
| | 18 | NM-M4-(Matl)-18-HX12 † | 28-1/4 | 56-1/2 |
| | 24 | NM-M4-(Matl)-24-HX12 † | 31-1/4 | 62-1/2 |
| | 30 | NM-M4-(Matl)-30-HX12 † | 34-1/4 | 68-1/2 |
| | 36 | NM-M4-(Matl)-36-HX12 † | 37-1/4 | 74-1/2 |
| 24 | 6 | NM-M4-(Matl)-06-HX24 † | 34-1/4 | 68-1/2 |
| | 9 | NM-M4-(Matl)-09-HX24 † | 35-3/4 | 71-1/2 |
| | 12 | NM-M4-(Matl)-12-HX24 † | 37-1/4 | 74-1/2 |
| | 18 | NM-M4-(Matl)-18-HX24 † | 40-1/4 | 80-1/2 |
| | 24 | NM-M4-(Matl)-24-HX24 † | 43-1/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-30-HX24 † | 46-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-36-HX24 † | 49-1/4 | 98-1/2 |
| 36 | 6 | NM-M4-(Matl)-06-HX36 | 43-1/4 | 86-1/2 |
| | 9 | NM-M4-(Matl)-09-HX36 | 44-3/4 | 89-1/2 |
| | 12 | NM-M4-(Matl)-12-HX36 | 46-1/4 | 92-1/2 |
| | 18 | NM-M4-(Matl)-18-HX36 | 49-1/4 | 98-1/2 |
| | 24 | NM-M4-(Matl)-24-HX36 | 52-1/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-30-HX36 | 55-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-36-HX36 | 58-1/4 | 116-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

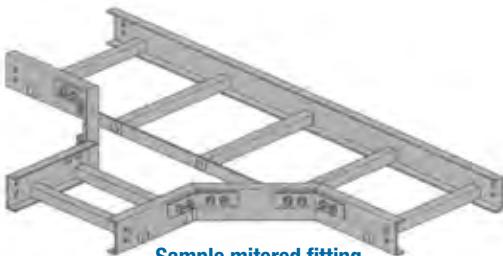
6 in. Horizontal Tees & Crosse

Part Numbering System

NM - M 6 P 24 HT 12

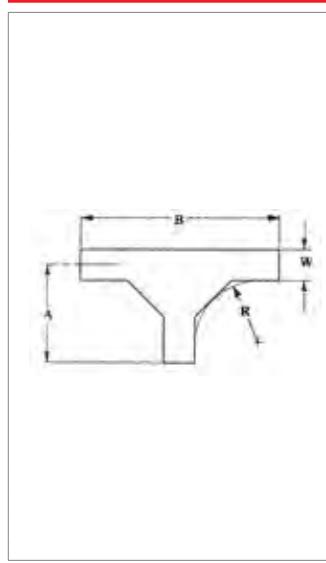
Nonmetallic Mitered Material Width Type Radius

† For molded fitting, if available, please remove "M" in the catalogue number.
Ex: NM-6P24HT12



Sample mitered fitting

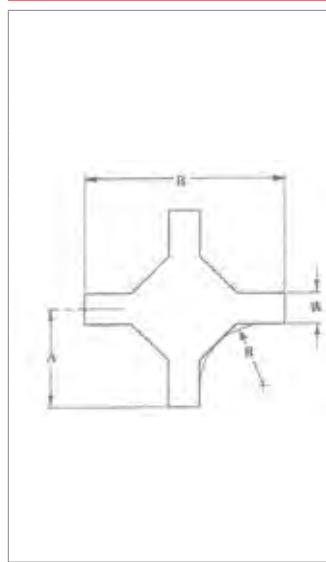
Horizontal Tee



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|-------------------------|---------------------|------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M6-(Matl)-06-HT12 | 19-1/4 | 38 |
| | 9 | NM-M6-(Matl)-09-HT12 | 20-3/4 | 41 |
| | 12 | NM-M6-(Matl)-12-HT12 | 22-1/4 | 44 |
| | 18 | NM-M6-(Matl)-18-HT12 | 25-1/4 | 50 |
| | 24 | NM-M6-(Matl)-24-HT12 | 28-1/4 | 56 |
| | 30 | NM-M6-(Matl)-30-HT12 | 31-1/4 | 62 |
| | 36 | NM-M6-(Matl)-36-HT12 | 34-1/4 | 68 |
| 24 | 6 | NM-M6-(Matl)-06-HT24 † | 34-1/4 | 68-1/2 |
| | 9 | NM-M6-(Matl)-09-HT24 † | 35-3/4 | 71-1/2 |
| | 12 | NM-M6-(Matl)-12-HT24 † | 37-1/4 | 74-1/2 |
| | 18 | NM-M6-(Matl)-18-HT24 † | 40-1/4 | 81-1/2 |
| | 24 | NM-M6-(Matl)-24-HT24 † | 43-1/4 | 86-1/2 |
| | 30 | NM-M6-(Matl)-30-HT24 † | 46-1/4 | 92-1/2 |
| | 36 | NM-M6-(Matl)-36-HT24 † | 49-1/4 | 98-1/2 |
| 36 | 6 | NM-M6-(Matl)-06-HT36 | 46-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-09-HT36 | 47-3/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-12-HT36 | 49-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-18-HT36 | 52-1/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-24-HT36 | 55-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-30-HT36 | 58-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-36-HT36 | 61-1/4 | 122-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Horizontal Cross



| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Dimensions | |
|-------------------------|---------------------|------------------------|------------|---------|
| | | | A (in.) | B (in.) |
| 12 | 6 | NM-M6-(Matl)-06-HX12 | 19-1/4 | 38 |
| | 9 | NM-M6-(Matl)-09-HX12 | 20-3/4 | 41 |
| | 12 | NM-M6-(Matl)-12-HX12 | 22-1/4 | 44 |
| | 18 | NM-M6-(Matl)-18-HX12 | 25-1/4 | 50 |
| | 24 | NM-M6-(Matl)-24-HX12 | 28-1/4 | 56 |
| | 30 | NM-M6-(Matl)-30-HX12 | 31-1/4 | 62 |
| | 36 | NM-M6-(Matl)-36-HX12 | 34-1/4 | 68 |
| 24 | 6 | NM-M6-(Matl)-06-HX24 † | 34-1/4 | 68-1/2 |
| | 9 | NM-M6-(Matl)-09-HX24 † | 35-3/4 | 71-1/2 |
| | 12 | NM-M6-(Matl)-12-HX24 † | 37-1/4 | 74-1/2 |
| | 18 | NM-M6-(Matl)-18-HX24 † | 40-1/4 | 80-1/2 |
| | 24 | NM-M6-(Matl)-24-HX24 † | 43-1/4 | 86-1/2 |
| | 30 | NM-M6-(Matl)-30-HX24 † | 46-1/4 | 92-1/2 |
| | 36 | NM-M6-(Matl)-36-HX24 † | 49-1/4 | 98-1/2 |
| 36 | 6 | NM-M6-(Matl)-06-HX36 | 46-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-09-HX36 | 47-3/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-12-HX36 | 49-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-18-HX36 | 52-1/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-24-HX36 | 55-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-30-HX36 | 58-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-36-HX36 | 61-1/4 | 122-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

3 in. Horizontal Reducing and Expanding Tees

| Part Numbering System | | | | | | |
|-----------------------|---|---------|--------|----------|---------|---------|
| NM | - | M | 3 | P | 24 | 12 |
| Nonmetallic | | Mitered | Height | Material | Width 1 | Width 2 |
| | | | | | Type | Radius |
| | | | | | | |



Sample mitered fitting

Horizontal Reducing Tee

| | W1 (in.) | W2 (in.) | Cat. No. | Dimensions | | Radius (in.) |
|--|----------|----------|-------------------------|------------|---------|--------------|
| | | | | A (in.) | B (in.) | |
| | 9 | 6 | NM-M3-(Matl)-09-06-HT12 | 20-3/4 | 38-1/2 | 12 |
| | | | NM-M3-(Matl)-12-06-HT12 | 22-1/4 | 38-1/2 | |
| | 12 | 9 | NM-M3-(Matl)-12-09-HT12 | 22-1/4 | 41-1/2 | |
| | | | NM-M3-(Matl)-18-06-HT12 | 25-1/4 | 38-1/2 | |
| | 18 | 9 | NM-M3-(Matl)-18-09-HT12 | 25-1/4 | 41-1/2 | |
| | | | NM-M3-(Matl)-18-12-HT12 | 25-1/4 | 41-1/2 | |
| | | | NM-M3-(Matl)-24-06-HT12 | 28-1/4 | 38-1/2 | |
| | 24 | 9 | NM-M3-(Matl)-24-09-HT12 | 28-1/4 | 41-1/2 | |
| | | | NM-M3-(Matl)-24-12-HT12 | 28-1/4 | 44-1/2 | |
| | | | NM-M3-(Matl)-24-18-HT12 | 28-1/4 | 50-1/2 | |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.



Sample mitered fitting

Horizontal Expanding Tee

| | W1 (in.) | W2 (in.) | Cat. No. | Dimensions | | Radius |
|--|----------|----------|-------------------------|------------|---------|--------|
| | | | | A (in.) | B (in.) | |
| | 9 | 9 | NM-M3-(Matl)-06-09-HT12 | 19-1/4 | 41-1/2 | 12 |
| | | | NM-M3-(Matl)-12-12-HT12 | 19-1/4 | 44-1/2 | |
| | | 18 | NM-M3-(Matl)-06-18-HT12 | 19-1/4 | 50-1/2 | |
| | | | NM-M3-(Matl)-06-24-HT12 | 19-1/4 | 56-1/2 | |
| | 12 | 12 | NM-M3-(Matl)-09-12-HT12 | 20-3/4 | 44-1/2 | |
| | | | NM-M3-(Matl)-09-18-HT12 | 20-3/4 | 50-1/2 | |
| | | 24 | NM-M3-(Matl)-09-24-HT12 | 20-3/4 | 56-1/2 | |
| | 18 | 18 | NM-M3-(Matl)-12-18-HT12 | 22-1/4 | 50-1/2 | |
| | | | NM-M3-(Matl)-12-24-HT12 | 22-1/4 | 50-1/2 | |
| | 24 | 24 | NM-M3-(Matl)-18-24-HT12 | 25-1/4 | 56-1/2 | |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

Fittings

4 in. Horizontal Reducing Tees

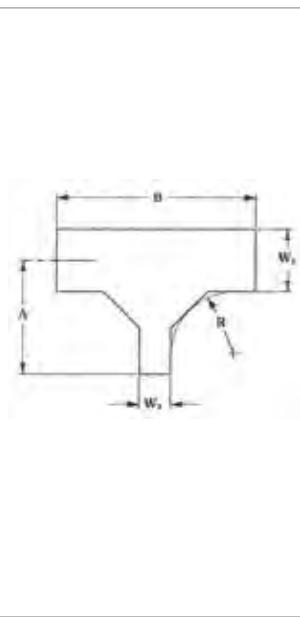
Part Numbering System

| | | | | | | | |
|-------------|------------|----------|----------|-----------|-----------|-----------|-----------|
| NM | - M | 4 | P | 24 | 12 | HT | 12 |
| Nonmetallic | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



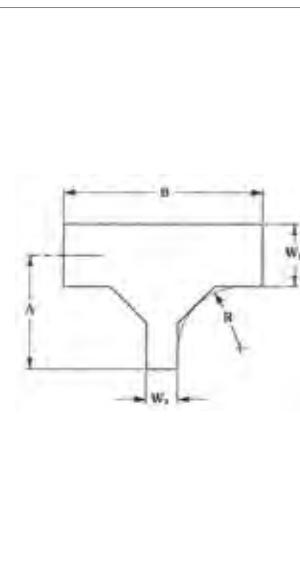
Sample mitered fitting

Horizontal Reducing Tee



| Tray Width | | Cat. No. *Insert radius (12 in. or 24 in.) | 12 in. Radius | | 24 in. Radius | |
|------------|----------|---|---------------|---------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) | A (in.) | B (in.) |
| 9 | 6 | NM-M4-(Matl)-09-06-HT* | 23-3/4 | 44-1/2 | 35-3/4 | 68-1/2 |
| 12 | 6 | NM-M4-(Matl)-12-06-HT* | 25-1/4 | 44-1/2 | 37-1/4 | 68-1/2 |
| 12 | 9 | NM-M4-(Matl)-12-09-HT* | 25-1/4 | 47-1/2 | 37-1/4 | 71-1/2 |
| 18 | 6 | NM-M4-(Matl)-18-06-HT* | 28-1/4 | 44-1/2 | 40-1/4 | 68-1/2 |
| 18 | 9 | NM-M4-(Matl)-18-09-HT* | 28-1/4 | 47-1/2 | 40-1/4 | 71-1/2 |
| 18 | 12 | NM-M4-(Matl)-18-12-HT* | 28-1/4 | 50-1/2 | 40-1/4 | 74-1/2 |
| 24 | 6 | NM-M4-(Matl)-24-06-HT* | 31-1/4 | 44-1/2 | 43-1/4 | 68-1/2 |
| 24 | 9 | NM-M4-(Matl)-24-09-HT* | 31-1/4 | 47-1/2 | 43-1/4 | 71-1/2 |
| 24 | 12 | NM-M4-(Matl)-24-12-HT* | 31-1/4 | 50-1/2 | 43-1/4 | 74-1/2 |
| 24 | 18 | NM-M4-(Matl)-24-18-HT* | 31-1/4 | 56-1/2 | 43-1/4 | 80-1/2 |
| 30 | 6 | NM-M4-(Matl)-30-06-HT* | 34-1/4 | 44-1/2 | 46-1/4 | 68-1/2 |
| 30 | 9 | NM-M4-(Matl)-30-09-HT* | 34-1/4 | 47-1/2 | 46-1/4 | 71-1/2 |
| 30 | 12 | NM-M4-(Matl)-30-12-HT* | 34-1/4 | 50-1/2 | 46-1/4 | 74-1/2 |
| 30 | 18 | NM-M4-(Matl)-30-18-HT* | 34-1/4 | 56-1/2 | 46-1/4 | 80-1/2 |
| 30 | 24 | NM-M4-(Matl)-30-24-HT* | 34-1/4 | 62-1/2 | 46-1/4 | 86-1/2 |
| 36 | 6 | NM-M4-(Matl)-36-06-HT* | 37-1/4 | 44-1/2 | 49-1/4 | 68-1/2 |
| 36 | 9 | NM-M4-(Matl)-36-09-HT* | 37-1/4 | 47-1/2 | 49-1/4 | 71-1/2 |
| 36 | 12 | NM-M4-(Matl)-36-12-HT* | 37-1/4 | 50-1/2 | 49-1/4 | 74-1/2 |
| 36 | 18 | NM-M4-(Matl)-36-18-HT* | 37-1/4 | 56-1/2 | 49-1/4 | 80-1/2 |
| 36 | 24 | NM-M4-(Matl)-36-24-HT* | 37-1/4 | 62-1/2 | 49-1/4 | 86-1/2 |
| 36 | 30 | NM-M4-(Matl)-36-30-HT* | 37-1/4 | 68-1/2 | 49-1/4 | 92-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.



| Tray Width | | Cat. No. | 36 in. Radius | |
|------------|----------|--------------------------------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) |
| 9 | 6 | NM-M4-(Matl)-09-06-HT36 | 44-3/4 | 86-1/2 |
| 12 | 6 | NM-M4-(Matl)-12-06-HT36 | 46-1/4 | 86-1/2 |
| 12 | 9 | NM-M4-(Matl)-12-09-HT36 | 46-1/4 | 89-1/2 |
| 18 | 6 | NM-M4-(Matl)-18-06-HT36 | 49-1/4 | 86-1/2 |
| 18 | 9 | NM-M4-(Matl)-18-09-HT36 | 49-1/4 | 89-1/2 |
| 18 | 12 | NM-M4-(Matl)-18-12-HT36 | 49-1/4 | 92-1/2 |
| 24 | 6 | NM-M4-(Matl)-24-06-HT36 | 52-1/4 | 86-1/2 |
| 24 | 9 | NM-M4-(Matl)-24-09-HT36 | 52-1/4 | 89-1/2 |
| 24 | 12 | NM-M4-(Matl)-24-12-HT36 | 52-1/4 | 92-1/2 |
| 24 | 18 | NM-M4-(Matl)-24-18-HT36 | 52-1/4 | 98-1/2 |
| 30 | 6 | NM-M4-(Matl)-30-06-HT36 | 55-1/4 | 86-1/2 |
| 30 | 9 | NM-M4-(Matl)-30-09-HT36 | 55-1/4 | 89-1/2 |
| 30 | 12 | NM-M4-(Matl)-30-12-HT36 | 55-1/4 | 92-1/2 |
| 30 | 18 | NM-M4-(Matl)-30-18-HT36 | 55-1/4 | 98-1/2 |
| 30 | 24 | NM-M4-(Matl)-30-24-HT36 | 55-1/4 | 104-1/2 |
| 36 | 6 | NM-M4-(Matl)-36-06-HT36 | 58-1/4 | 86-1/2 |
| 36 | 9 | NM-M4-(Matl)-36-09-HT36 | 58-1/4 | 89-1/2 |
| 36 | 12 | NM-M4-(Matl)-36-12-HT36 | 58-1/4 | 92-1/2 |
| 36 | 18 | NM-M4-(Matl)-36-18-HT36 | 58-1/4 | 98-1/2 |
| 36 | 24 | NM-M4-(Matl)-36-24-HT36 | 58-1/4 | 104-1/2 |
| 36 | 30 | NM-M4-(Matl)-36-30-HT36 | 58-1/4 | 110-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.

Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

4 in. Horizontal Expanding Tees

| Part Numbering System | | | | | |
|-----------------------|---|---------|--------|----------|---------|
| NM | - | M | 4 | P | 12 |
| Nonmetallic | | Mitered | Height | Material | Width 1 |
| | | | | | Width 2 |
| | | | | Type | Radius |



Sample mitered fitting

Horizontal Expanding Tee

| Tray Width | Cat. No. | | 12 in. Radius | | 24 in. Radius | | |
|------------|----------|----------|-----------------------------------|---------|---------------|---------|---------|
| | W1 (in.) | W2 (in.) | *Insert radius (12 in. or 24 in.) | A (in.) | B (in.) | A (in.) | B (in.) |
| 6 | | 9 | NM-M4-(Matl)-06-09-HT* | 22-1/4 | 47-1/2 | 34-1/4 | 71-1/2 |
| | | 12 | NM-M4-(Matl)-06-12-HT* | 22-1/4 | 50-1/2 | 34-1/4 | 74-1/2 |
| | | 18 | NM-M4-(Matl)-06-18-HT* | 22-1/4 | 56-1/2 | 34-1/4 | 80-1/2 |
| | | 24 | NM-M4-(Matl)-06-24-HT* | 22-1/4 | 62-1/2 | 34-1/4 | 86-1/2 |
| | | 30 | NM-M4-(Matl)-06-30-HT* | 22-1/4 | 68-1/2 | 34-1/4 | 92-1/2 |
| | | 36 | NM-M4-(Matl)-06-36-HT* | 22-1/4 | 74-1/2 | 34-1/4 | 98-1/2 |
| 9 | | 12 | NM-M4-(Matl)-09-12-HT* | 23-3/4 | 50-1/2 | 35-3/4 | 74-1/2 |
| | | 18 | NM-M4-(Matl)-09-18-HT* | 23-3/4 | 56-1/2 | 35-3/4 | 80-1/2 |
| | | 24 | NM-M4-(Matl)-09-24-HT* | 23-3/4 | 62-1/2 | 35-3/4 | 86-1/2 |
| | | 30 | NM-M4-(Matl)-09-30-HT* | 23-3/4 | 68-1/2 | 35-3/4 | 92-1/2 |
| | | 36 | NM-M4-(Matl)-09-36-HT* | 23-3/4 | 74-1/2 | 35-3/4 | 98-1/2 |
| 12 | | 18 | NM-M4-(Matl)-12-18-HT* | 25-1/4 | 56-1/2 | 37-1/4 | 80-1/2 |
| | | 24 | NM-M4-(Matl)-12-24-HT* | 25-1/4 | 62-1/2 | 37-1/4 | 86-1/2 |
| | | 30 | NM-M4-(Matl)-12-30-HT* | 25-1/4 | 68-1/2 | 37-1/4 | 92-1/2 |
| | | 36 | NM-M4-(Matl)-12-36-HT* | 25-1/4 | 74-1/2 | 37-1/4 | 98-1/2 |
| | | 24 | NM-M4-(Matl)-18-24-HT* | 28-1/4 | 62-1/2 | 40-1/4 | 86-1/2 |
| 18 | | 30 | NM-M4-(Matl)-18-30-HT* | 28-1/4 | 68-1/2 | 40-1/4 | 92-1/2 |
| | | 36 | NM-M4-(Matl)-18-36-HT* | 28-1/4 | 74-1/2 | 40-1/4 | 98-1/2 |
| | | 30 | NM-M4-(Matl)-24-30-HT* | 31-1/4 | 68-1/2 | 43-1/4 | 92-1/2 |
| 24 | | 36 | NM-M4-(Matl)-24-36-HT* | 31-1/4 | 74-1/2 | 43-1/4 | 98-1/2 |
| | | 36 | NM-M4-(Matl)-30-36-HT* | 34-1/4 | 74-1/2 | 46-1/4 | 98-1/2 |
| 30 | | | | | | | |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

| Tray Width | Cat. No. | | 36 in. Radius | | |
|------------|----------|----------|-------------------------|---------|---------|
| | W1 (in.) | W2 (in.) | A (in.) | B (in.) | |
| 6 | | 9 | NM-M4-(Matl)-06-09-HT36 | 43-1/4 | 89-1/2 |
| | | 12 | NM-M4-(Matl)-06-12-HT36 | 43-1/4 | 92-1/2 |
| | | 18 | NM-M4-(Matl)-06-18-HT36 | 43-1/4 | 98-1/2 |
| | | 24 | NM-M4-(Matl)-06-24-HT36 | 43-1/4 | 104-1/2 |
| | | 30 | NM-M4-(Matl)-06-30-HT36 | 43-1/4 | 110-1/2 |
| | | 36 | NM-M4-(Matl)-06-36-HT36 | 43-1/4 | 116-1/2 |
| 9 | | 12 | NM-M4-(Matl)-09-12-HT36 | 44-3/4 | 92-1/2 |
| | | 18 | NM-M4-(Matl)-09-18-HT36 | 44-3/4 | 98-1/2 |
| | | 24 | NM-M4-(Matl)-09-24-HT36 | 44-3/4 | 104-1/2 |
| | | 30 | NM-M4-(Matl)-09-30-HT36 | 44-3/4 | 110-1/2 |
| | | 36 | NM-M4-(Matl)-09-36-HT36 | 44-3/4 | 116-1/2 |
| 12 | | 18 | NM-M4-(Matl)-12-18-HT36 | 46-1/4 | 98-1/2 |
| | | 24 | NM-M4-(Matl)-12-24-HT36 | 46-1/4 | 104-1/2 |
| | | 30 | NM-M4-(Matl)-12-30-HT36 | 46-1/4 | 110-1/2 |
| | | 36 | NM-M4-(Matl)-12-36-HT36 | 46-1/4 | 116-1/2 |
| | | 24 | NM-M4-(Matl)-18-24-HT36 | 49-1/4 | 104-1/2 |
| 18 | | 30 | NM-M4-(Matl)-18-30-HT36 | 49-1/4 | 110-1/2 |
| | | 36 | NM-M4-(Matl)-18-36-HT36 | 49-1/4 | 116-1/2 |
| | | 30 | NM-M4-(Matl)-24-30-HT36 | 52-1/4 | 110-1/2 |
| | | 36 | NM-M4-(Matl)-24-36-HT36 | 52-1/4 | 116-1/2 |
| | | 36 | NM-M4-(Matl)-30-36-HT36 | 52-1/4 | 116-1/2 |
| 24 | | | | | |
| 30 | | | | | |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Horizontal Reducing Tees

Part Numbering System

NM - M 6 P 24 12 HT 12

Nonmetallic Mitered Material Width 1 Width 2 Type Radius



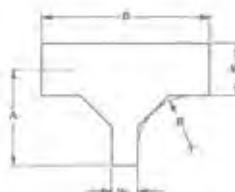
Sample mitered fitting

Horizontal Reducing Tee



| Tray Width | | Cat. No. | 12 in. Radius | |
|------------|----------|-------------------------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) |
| 9 | 6 | NM-M6-(Matl)-09-06-HT12 | 20-3/4 | 38-1/2 |
| 12 | 6 | NM-M6-(Matl)-12-06-HT12 | 22-1/4 | 38-1/2 |
| | 9 | NM-M6-(Matl)-12-09-HT12 | 22-1/4 | 41-1/2 |
| 18 | 6 | NM-M6-(Matl)-18-06-HT12 | 25-1/4 | 38-1/2 |
| | 9 | NM-M6-(Matl)-18-09-HT12 | 25-1/4 | 41-1/2 |
| | 12 | NM-M6-(Matl)-18-12-HT12 | 25-1/4 | 44-1/2 |
| 24 | 6 | NM-M6-(Matl)-24-06-HT12 | 28-1/4 | 38-1/2 |
| | 9 | NM-M6-(Matl)-24-09-HT12 | 28-1/4 | 41-1/2 |
| | 12 | NM-M6-(Matl)-24-12-HT12 | 28-1/4 | 44-1/2 |
| | 18 | NM-M6-(Matl)-24-18-HT12 | 28-1/4 | 50-1/2 |
| 30 | 6 | NM-M6-(Matl)-30-06-HT12 | 31-1/4 | 38-1/2 |
| | 9 | NM-M6-(Matl)-30-09-HT12 | 31-1/4 | 41-1/2 |
| | 12 | NM-M6-(Matl)-30-12-HT12 | 31-1/4 | 44-1/2 |
| | 18 | NM-M6-(Matl)-30-18-HT12 | 31-1/4 | 50-1/2 |
| | 24 | NM-M6-(Matl)-30-24-HT12 | 31-1/4 | 56-1/2 |
| 36 | 6 | NM-M6-(Matl)-36-06-HT12 | 34-1/4 | 38-1/2 |
| | 9 | NM-M6-(Matl)-36-09-HT12 | 34-1/4 | 41-1/2 |
| | 12 | NM-M6-(Matl)-36-12-HT12 | 34-1/4 | 44-1/2 |
| | 18 | NM-M6-(Matl)-36-18-HT12 | 34-1/4 | 50-1/2 |
| | 24 | NM-M6-(Matl)-36-24-HT12 | 34-1/4 | 56-1/2 |
| | 30 | NM-M6-(Matl)-36-30-HT12 | 34-1/4 | 62-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.



| Tray Width | | Cat. No. *Insert radius (24 in. or 36 in.) | 24 in. Radius | | 36 in. Radius | |
|------------|----------|---|---------------|---------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) | A (in.) | B (in.) |
| 9 | 6 | NM-M6-(Matl)-09-06HT* | 35-3/4 | 68-1/2 | 47-3/4 | 92-1/2 |
| 12 | 6 | NM-M6-(Matl)-12-06HT* | 37-1/4 | 68-1/2 | 49-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-12-09HT* | 37-1/4 | 71-1/2 | 49-1/4 | 95-1/2 |
| 18 | 6 | NM-M6-(Matl)-18-06HT* | 40-1/4 | 68-1/2 | 52-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-18-09HT* | 40-1/4 | 71-1/2 | 52-1/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-18-12HT* | 40-1/4 | 74-1/2 | 52-1/4 | 98-1/2 |
| 24 | 6 | NM-M6-(Matl)-24-06HT* | 43-1/4 | 68-1/2 | 55-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-24-09HT* | 43-1/4 | 71-1/2 | 55-1/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-24-12HT* | 43-1/4 | 74-1/2 | 55-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-24-18HT* | 43-1/4 | 80-1/2 | 55-1/4 | 104-1/2 |
| 30 | 6 | NM-M6-(Matl)-30-06HT* | 46-1/4 | 68-1/2 | 58-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-30-09HT* | 46-1/4 | 71-1/2 | 58-1/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-30-12HT* | 46-1/4 | 74-1/2 | 58-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-30-18HT* | 46-1/4 | 80-1/2 | 58-1/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-30-24HT* | 46-1/4 | 86-1/2 | 58-1/4 | 110-1/2 |
| 36 | 6 | NM-M6-(Matl)-36-06HT* | 49-1/4 | 68-1/2 | 61-1/4 | 92-1/2 |
| | 9 | NM-M6-(Matl)-36-09HT* | 49-1/4 | 71-1/2 | 61-1/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-36-12HT* | 49-1/4 | 74-1/2 | 61-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-36-18HT* | 49-1/4 | 80-1/2 | 61-1/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-36-24HT* | 49-1/4 | 86-1/2 | 61-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-36-30HT* | 49-1/4 | 92-1/2 | 61-1/4 | 116-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.

Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Horizontal Expanding Tees

| Part Numbering System | | | | | | |
|-----------------------|---|---------|---|----------|---------|---------|
| NM | - | M | 6 | P | 12 | 24 |
| Nonmetallic | | Mitered | Height | Material | Width 1 | Width 2 |
| | | | <th></th> <th>Type</th> <th>Radius</th> | | Type | Radius |



Sample mitered fitting

Horizontal Expanding Tee

| Tray Width | Cat. No. | | 12 in. Radius | | | |
|------------|----------|-------------------------|---------------|----------|---------|---------|
| | | | W1 (in.) | W2 (in.) | A (in.) | B (in.) |
| 6 | 9 | NM-M6-(Matl)-06-09-HT12 | 19-1/4 | | 41-1/2 | |
| | 12 | NM-M6-(Matl)-06-12-HT12 | 19-1/4 | | 44-1/2 | |
| | 18 | NM-M6-(Matl)-06-18-HT12 | 19-1/4 | | 50-1/2 | |
| | 24 | NM-M6-(Matl)-06-24-HT12 | 19-1/4 | | 56-1/2 | |
| | 30 | NM-M6-(Matl)-06-30-HT12 | 19-1/4 | | 62-1/2 | |
| | 36 | NM-M6-(Matl)-06-36-HT12 | 19-1/4 | | 68-1/2 | |
| 9 | 12 | NM-M6-(Matl)-09-12-HT12 | 20-3/4 | | 44-1/2 | |
| | 18 | NM-M6-(Matl)-09-18-HT12 | 20-3/4 | | 50-1/2 | |
| | 24 | NM-M6-(Matl)-09-24-HT12 | 20-3/4 | | 56-1/2 | |
| | 30 | NM-M6-(Matl)-09-30-HT12 | 20-3/4 | | 62-1/2 | |
| | 36 | NM-M6-(Matl)-09-36-HT12 | 20-3/4 | | 68-1/2 | |
| | 18 | NM-M6-(Matl)-12-18-HT12 | 22-1/4 | | 50-1/2 | |
| 12 | 24 | NM-M6-(Matl)-12-24-HT12 | 22-1/4 | | 56-1/2 | |
| | 30 | NM-M6-(Matl)-12-30-HT12 | 22-1/4 | | 62-1/2 | |
| | 36 | NM-M6-(Matl)-12-36-HT12 | 22-1/4 | | 68-1/2 | |
| | 24 | NM-M6-(Matl)-18-24-HT12 | 25-1/4 | | 56-1/2 | |
| 18 | 30 | NM-M6-(Matl)-18-30-HT12 | 25-1/4 | | 62-1/2 | |
| | 36 | NM-M6-(Matl)-18-36-HT12 | 25-1/4 | | 68-1/2 | |
| | 24 | NM-M6-(Matl)-24-30-HT12 | 28-1/4 | | 62-1/2 | |
| 24 | 36 | NM-M6-(Matl)-24-36-HT12 | 28-1/4 | | 68-1/2 | |
| | 30 | NM-M6-(Matl)-30-36-HT12 | 31-3/4 | | | 68-1/2 |

Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

| Tray Width | Cat. No. *Insert radius (24 in. or 36 in.) | | 24 in. Radius | | 36 in. Radius | |
|------------|---|------------------------|---------------|----------|---------------|---------|
| | | | W1 (in.) | W2 (in.) | A (in.) | B (in.) |
| 6 | 9 | NM-M6-(Matl)-06-09-HT* | 34-1/4 | | 71-1/2 | 46-1/4 |
| | 12 | NM-M6-(Matl)-06-12-HT* | 34-1/4 | | 74-1/2 | 46-1/4 |
| | 18 | NM-M6-(Matl)-06-18-HT* | 34-1/4 | | 80-1/2 | 46-1/4 |
| | 24 | NM-M6-(Matl)-06-24-HT* | 34-1/4 | | 86-1/2 | 46-1/4 |
| | 30 | NM-M6-(Matl)-06-30-HT* | 34-1/4 | | 92-1/2 | 46-1/4 |
| | 36 | NM-M6-(Matl)-06-36-HT* | 34-1/4 | | 98-1/2 | 46-1/4 |
| 9 | 12 | NM-M6-(Matl)-09-12-HT* | 35-3/4 | | 74-1/2 | 47-3/4 |
| | 18 | NM-M6-(Matl)-09-18-HT* | 35-3/4 | | 80-1/2 | 47-3/4 |
| | 24 | NM-M6-(Matl)-09-24-HT* | 35-3/4 | | 86-1/2 | 47-3/4 |
| | 30 | NM-M6-(Matl)-09-30-HT* | 35-3/4 | | 92-1/2 | 47-3/4 |
| | 36 | NM-M6-(Matl)-09-36-HT* | 35-3/4 | | 98-1/2 | 47-3/4 |
| | 18 | NM-M6-(Matl)-12-18-HT* | 37-1/4 | | 80-1/2 | 49-1/4 |
| 12 | 24 | NM-M6-(Matl)-12-24-HT* | 37-1/4 | | 86-1/2 | 49-1/4 |
| | 30 | NM-M6-(Matl)-12-30-HT* | 37-1/4 | | 92-1/2 | 49-1/4 |
| | 36 | NM-M6-(Matl)-12-36-HT* | 37-1/4 | | 98-1/2 | 49-1/4 |
| | 24 | NM-M6-(Matl)-18-24-HT* | 40-1/4 | | 86-1/2 | 52-1/4 |
| 18 | 30 | NM-M6-(Matl)-18-30-HT* | 40-1/4 | | 92-1/2 | 52-1/4 |
| | 36 | NM-M6-(Matl)-18-36-HT* | 40-1/4 | | 98-1/2 | 52-1/4 |
| | 24 | NM-M6-(Matl)-24-30-HT* | 43-1/4 | | 92-1/2 | 55-1/4 |
| 24 | 36 | NM-M6-(Matl)-24-36-HT* | 43-1/4 | | 98-1/2 | 55-1/4 |
| | 30 | NM-M6-(Matl)-30-36-HT* | 46-1/4 | | 98-1/2 | 58-1/4 |

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

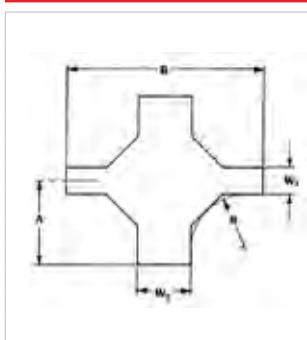
3 in. Horizontal Expanding / Reducing Crosses

| Part Numbering System | | | | | | |
|-----------------------|---------|--------|----------|---------|---------|------|
| NM | M | 3 | P | 24 | 12 | HX |
| Nonmetallic | Mitered | Height | Material | Width 1 | Width 2 | Type |



Sample mitered fitting

Horizontal Expanding/Reducing Cross



| Tray Width | | Cat. No. | 12 in. Radius | |
|------------|----------|-------------------------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) |
| 9 | 6 | NM-M3-(Matl)-09-06-HX12 | 19-1/4 | 41-1/2 |
| | 6 | NM-M3-(Matl)-12-06-HX12 | 19-1/4 | 44-1/2 |
| 12 | 9 | NM-M3-(Matl)-12-09-HX12 | 20-3/4 | 44-1/2 |
| | 6 | NM-M3-(Matl)-18-06-HX12 | 19-1/4 | 50-1/2 |
| 18 | 9 | NM-M3-(Matl)-18-09-HX12 | 20-3/4 | 50-1/2 |
| | 12 | NM-M3-(Matl)-18-12-HX12 | 22-1/4 | 50-1/2 |
| 24 | 6 | NM-M3-(Matl)-24-06-HX12 | 19-1/4 | 56-1/2 |
| | 9 | NM-M3-(Matl)-24-09-HX12 | 20-3/4 | 56-1/2 |
| | 12 | NM-M3-(Matl)-24-12-HX12 | 22-1/4 | 56-1/2 |
| | 18 | NM-M3-(Matl)-24-18-HX12 | 25-1/4 | 56-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

4 in. Horizontal Expanding / Reducing Crosses

| Part Numbering System | | | | | | |
|-----------------------|---|---------|---|----------|---------|---------|
| NM | - | M | 4 | P | 24 | 30 |
| Nonmetallic | | Mitered | | Material | Width 1 | Width 2 |
| | | Height | | | Type | Radius |



Sample mitered fitting

Horizontal Expanding Cross

| Tray Width W1 (in.) | Tray Width W2 (in.) | Cat. No. *Insert radius (12 in. or 24 in.) | 12 in. Radius | | 24 in. Radius | |
|---------------------|---------------------|---|---------------|---------|---------------|---------|
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 6 | 9 | NM-M4-(Matl)-06-09-HX* | 22-1/4 | 47-1/2 | 34-1/4 | 71-1/2 |
| | 12 | NM-M4-(Matl)-06-12-HX* | 22-1/4 | 50-1/2 | 34-1/4 | 74-1/2 |
| | 18 | NM-M4-(Matl)-06-18-HX* | 22-1/4 | 56-1/2 | 34-1/4 | 80-1/2 |
| | 24 | NM-M4-(Matl)-06-24-HX* | 22-1/4 | 62-1/2 | 34-1/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-06-30-HX* | 22-1/4 | 68-1/2 | 34-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-06-36-HX* | 22-1/4 | 74-1/2 | 34-1/4 | 98-1/2 |
| 9 | 12 | NM-M4-(Matl)-09-12-HX* | 23-3/4 | 50-1/2 | 35-3/4 | 74-1/2 |
| | 18 | NM-M4-(Matl)-09-18-HX* | 23-3/4 | 56-1/2 | 35-3/4 | 80-1/2 |
| | 24 | NM-M4-(Matl)-09-24-HX* | 23-3/4 | 62-1/2 | 35-3/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-09-30-HX* | 23-3/4 | 68-1/2 | 35-3/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-09-36-HX* | 23-3/4 | 74-1/2 | 35-3/4 | 98-1/2 |
| 12 | 18 | NM-M4-(Matl)-12-18-HX* | 25-1/4 | 56-1/2 | 37-1/4 | 80-1/2 |
| | 24 | NM-M4-(Matl)-12-24-HX* | 25-1/4 | 62-1/2 | 37-1/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-12-30-HX* | 25-1/4 | 68-1/2 | 37-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-12-36-HX* | 25-1/4 | 74-1/2 | 37-1/4 | 98-1/2 |
| 18 | 24 | NM-M4-(Matl)-18-24-HX* | 28-1/4 | 62-1/2 | 40-1/4 | 86-1/2 |
| | 30 | NM-M4-(Matl)-18-30-HX* | 28-1/4 | 68-1/2 | 40-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-18-36-HX* | 28-1/4 | 74-1/2 | 40-1/4 | 98-1/2 |
| 24 | 30 | NM-M4-(Matl)-24-30-HX* | 31-1/4 | 68-1/2 | 43-1/4 | 92-1/2 |
| | 36 | NM-M4-(Matl)-24-36-HX* | 31-1/4 | 74-1/2 | 43-1/4 | 98-1/2 |
| 30 | 36 | NM-M4-(Matl)-30-36-HX* | 34-1/4 | 74-1/2 | 46-1/4 | 98-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

| Tray Width W1 (in.) | W2 (in.) | Cat. No. | 36 in. Radius | |
|---------------------|----------|-------------------------|---------------|---------|
| | | | A (in.) | B (in.) |
| 6 | 9 | NM-M4-(Matl)-06-09-HX36 | 43-1/4 | 89-1/2 |
| | 12 | NM-M4-(Matl)-06-12-HX36 | 43-1/4 | 92-1/2 |
| | 18 | NM-M4-(Matl)-06-18-HX36 | 43-1/4 | 98-1/2 |
| | 24 | NM-M4-(Matl)-06-24-HX36 | 43-1/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-06-30-HX36 | 43-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-06-36-HX36 | 43-1/4 | 116-1/2 |
| 9 | 12 | NM-M4-(Matl)-09-12-HX36 | 44-3/4 | 92-1/2 |
| | 18 | NM-M4-(Matl)-09-18-HX36 | 44-3/4 | 98-1/2 |
| | 24 | NM-M4-(Matl)-09-24-HX36 | 44-3/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-09-30-HX36 | 44-3/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-09-36-HX36 | 44-3/4 | 116-1/2 |
| 12 | 18 | NM-M4-(Matl)-12-18-HX36 | 46-1/4 | 98-1/2 |
| | 24 | NM-M4-(Matl)-12-24-HX36 | 46-1/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-12-30-HX36 | 46-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-12-36-HX36 | 46-1/4 | 116-1/2 |
| 18 | 24 | NM-M4-(Matl)-18-24-HX36 | 49-1/4 | 104-1/2 |
| | 30 | NM-M4-(Matl)-18-30-HX36 | 49-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-18-36-HX36 | 49-1/4 | 116-1/2 |
| 24 | 30 | NM-M4-(Matl)-24-30-HX36 | 52-1/4 | 110-1/2 |
| | 36 | NM-M4-(Matl)-24-36-HX36 | 52-1/4 | 116-1/2 |
| 30 | 36 | NM-M4-(Matl)-30-36-HX36 | 52-1/4 | 116-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Horizontal Expanding / Reducing Crosses

| Part Numbering System | | | | | | | |
|-----------------------|---------|--------|----------|---------|---------|------|--------|
| NM | M | 6 | P | 24 | 12 | HX | 12 |
| Nonmetallic | Mitered | Height | Material | Width 1 | Width 2 | Type | Radius |



Sample mitered fitting

Horizontal Expanding/ Reducing Cross

| Tray Width | | Cat. No. | 12 in. Radius | |
|------------|----------|-------------------------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) |
| 9 | 6 | NM-M6-(Matl)-09-06-HX12 | 19-1/4 | 41-1/2 |
| 12 | 6 | NM-M6-(Matl)-12-06-HX12 | 19-1/4 | 44-1/2 |
| 18 | 9 | NM-M6-(Matl)-18-06-HX12 | 20-3/4 | 44-1/2 |
| 18 | 6 | NM-M6-(Matl)-18-09-HX12 | 19-1/4 | 50-1/2 |
| 18 | 9 | NM-M6-(Matl)-18-12-HX12 | 20-3/4 | 50-1/2 |
| 24 | 6 | NM-M6-(Matl)-24-06-HX12 | 22-1/4 | 50-1/2 |
| 24 | 9 | NM-M6-(Matl)-24-09-HX12 | 19-1/4 | 56-1/2 |
| 24 | 12 | NM-M6-(Matl)-24-12-HX12 | 20-3/4 | 56-1/2 |
| 24 | 18 | NM-M6-(Matl)-24-18-HX12 | 25-1/4 | 56-1/2 |
| 30 | 6 | NM-M6-(Matl)-30-06-HX12 | 19-1/4 | 62-1/2 |
| 30 | 9 | NM-M6-(Matl)-30-09-HX12 | 20-3/4 | 62-1/2 |
| 30 | 12 | NM-M6-(Matl)-30-12-HX12 | 22-1/4 | 62-1/2 |
| 30 | 18 | NM-M6-(Matl)-30-18-HX12 | 25-1/4 | 62-1/2 |
| 30 | 24 | NM-M6-(Matl)-30-24-HX12 | 28-1/4 | 62-1/2 |
| 36 | 6 | NM-M6-(Matl)-36-06-HX12 | 19-1/4 | 68-1/2 |
| 36 | 9 | NM-M6-(Matl)-36-09-HX12 | 20-3/4 | 68-1/2 |
| 36 | 12 | NM-M6-(Matl)-36-12-HX12 | 22-1/4 | 68-1/2 |
| 36 | 18 | NM-M6-(Matl)-36-18-HX12 | 25-1/4 | 68-1/2 |
| 36 | 24 | NM-M6-(Matl)-36-24-HX12 | 28-1/4 | 68-1/2 |
| 36 | 30 | NM-M6-(Matl)-36-30-HX12 | 31-1/4 | 68-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

| Tray Width | | Cat. No. *Insert radius (24 in. or 36 in.) | 24 in. Radius | | 36 in. Radius | |
|------------|----------|---|---------------|---------|---------------|---------|
| W1 (in.) | W2 (in.) | | A (in.) | B (in.) | A (in.) | B (in.) |
| 6 | 9 | NM-M6-(Matl)-06-09-HT* | 34-1/4 | 71-1/2 | 46-1/4 | 95-1/2 |
| | 12 | NM-M6-(Matl)-06-12-HT* | 34-1/4 | 74-1/2 | 46-1/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-06-18-HT* | 34-1/4 | 80-1/2 | 46-1/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-06-24-HT* | 34-1/4 | 86-1/2 | 46-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-06-30-HT* | 34-1/4 | 92-1/2 | 46-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-06-36-HT* | 34-1/4 | 98-1/2 | 46-1/4 | 122-1/2 |
| 12 | 12 | NM-M6-(Matl)-09-12-HT* | 35-3/4 | 74-1/2 | 47-3/4 | 98-1/2 |
| | 18 | NM-M6-(Matl)-09-18-HT* | 35-3/4 | 80-1/2 | 47-3/4 | 104-1/2 |
| | 24 | NM-M6-(Matl)-09-24-HT* | 35-3/4 | 86-1/2 | 47-3/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-09-30-HT* | 35-3/4 | 92-1/2 | 47-3/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-09-36-HT* | 35-3/4 | 98-1/2 | 47-3/4 | 122-1/2 |
| | 18 | NM-M6-(Matl)-12-18-HT* | 37-1/4 | 80-1/2 | 49-1/4 | 104-1/2 |
| 18 | 24 | NM-M6-(Matl)-12-24-HT* | 37-1/4 | 86-1/2 | 49-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-12-30-HT* | 37-1/4 | 92-1/2 | 49-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-12-36-HT* | 37-1/4 | 98-1/2 | 49-1/4 | 122-1/2 |
| | 24 | NM-M6-(Matl)-18-24-HT* | 40-1/4 | 86-1/2 | 52-1/4 | 110-1/2 |
| | 30 | NM-M6-(Matl)-18-30-HT* | 40-1/4 | 92-1/2 | 52-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-18-36-HT* | 40-1/4 | 98-1/2 | 52-1/4 | 122-1/2 |
| 24 | 30 | NM-M6-(Matl)-24-30-HT* | 43-1/4 | 92-1/2 | 55-1/4 | 116-1/2 |
| | 36 | NM-M6-(Matl)-24-36-HT* | 43-1/4 | 98-1/2 | 55-1/4 | 122-1/2 |
| | 36 | NM-M6-(Matl)-30-36-HT* | 46-1/4 | 98-1/2 | 58-1/4 | 122-1/2 |

Three pairs of stainless steel SS6 splice plates with SS6 hardware included.

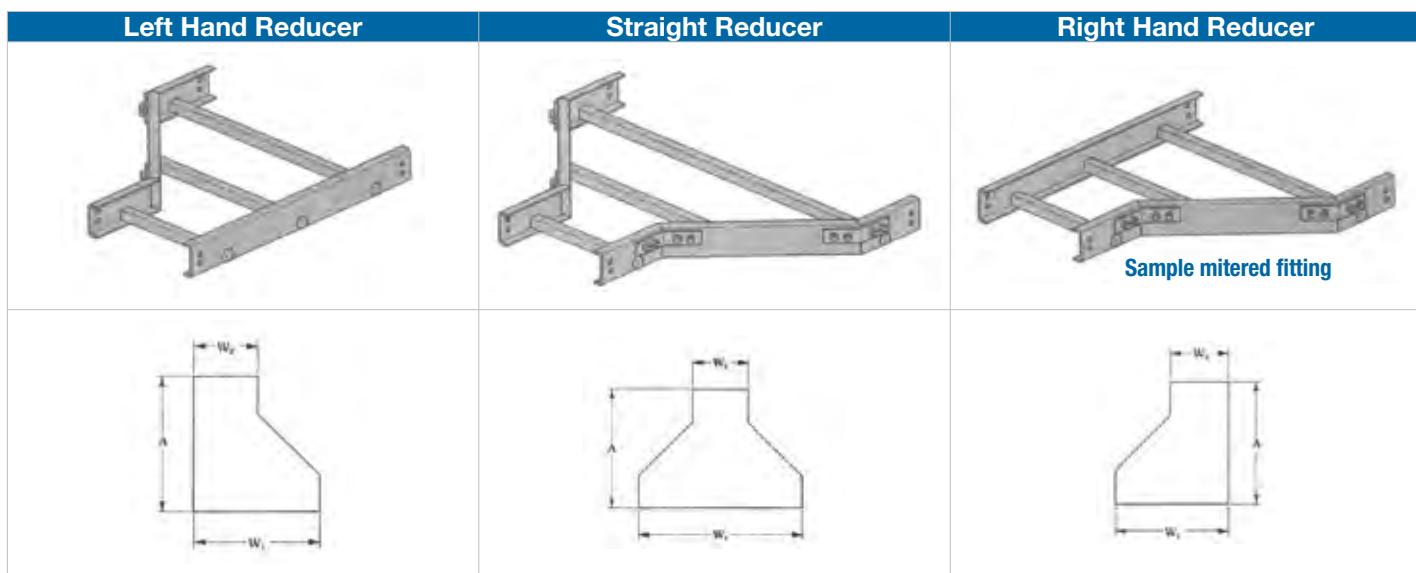
Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.

Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

3 in. Horizontal Reducers

| Part Numbering System | | | | | | |
|-----------------------|---------|--------|----------|---------|------|---------|
| NM | M | 3 | P | 24 | LR | 12 |
| Nonmetallic | Mitered | Height | Material | Width 1 | Type | Width 2 |



| Tray Width | | Left Hand Reducer Cat. No. | A (in.) | Straight Reducer Cat. No. | A (in.) | Right Hand Reducer Cat. No. | A (in.) |
|------------|----------|--------------------------------------|---------|--------------------------------------|---------|--------------------------------------|---------|
| W1 (in.) | W2 (in.) | | | | | | |
| 9 | 6 | NM-M3-(Matl)-09-LR06 | 17-1/2 | NM-M3-(Matl)-09-SR06 | 16 | NM-M3-(Matl)-09-RR06 | 17-1/2 |
| 12 | 6 | NM-M3-(Matl)-12-LR06 | 20-1/2 | NM-M3-(Matl)-12-SR06 | 17-1/2 | NM-M3-(Matl)-12-RR06 | 20-1/2 |
| | 9 | NM-M3-(Matl)-12-LR09 | 17-1/2 | NM-M3-(Matl)-12-SR09 | 16 | NM-M3-(Matl)-12-RR09 | 17-1/2 |
| 18 | 6 | NM-M3-(Matl)-18-LR06 | 26-1/2 | NM-M3-(Matl)-18-SR06 | 20-1/2 | NM-M3-(Matl)-18-RR06 | 26-1/2 |
| | 9 | NM-M3-(Matl)-18-LR09 | 23-1/2 | NM-M3-(Matl)-18-SR09 | 19 | NM-M3-(Matl)-18-RR09 | 23-1/2 |
| | 12 | NM-M3-(Matl)-18-LR12 | 20-1/2 | NM-M3-(Matl)-18-SR12 | 17-1/2 | NM-M3-(Matl)-18-RR12 | 20-1/2 |
| 24 | 6 | NM-M3-(Matl)-24-LR06 | 32-1/2 | NM-M3-(Matl)-24-SR06 | 23-1/2 | NM-M3-(Matl)-24-RR06 | 32-1/2 |
| | 9 | NM-M3-(Matl)-24-LR09 | 29-1/2 | NM-M3-(Matl)-24-SR09 | 22 | NM-M3-(Matl)-24-RR09 | 29-1/2 |
| | 12 | NM-M3-(Matl)-24-LR12 | 26-1/2 | NM-M3-(Matl)-24-SR12 | 20-1/2 | NM-M3-(Matl)-24-RR12 | 26-1/2 |
| | 18 | NM-M3-(Matl)-24-LR18 | 20-1/2 | NM-M3-(Matl)-24-SR18 | 17-1/2 | NM-M3-(Matl)-24-RR18 | 20-1/2 |

One pair of stainless steel SS6 splice plates with SS6 hardware included.

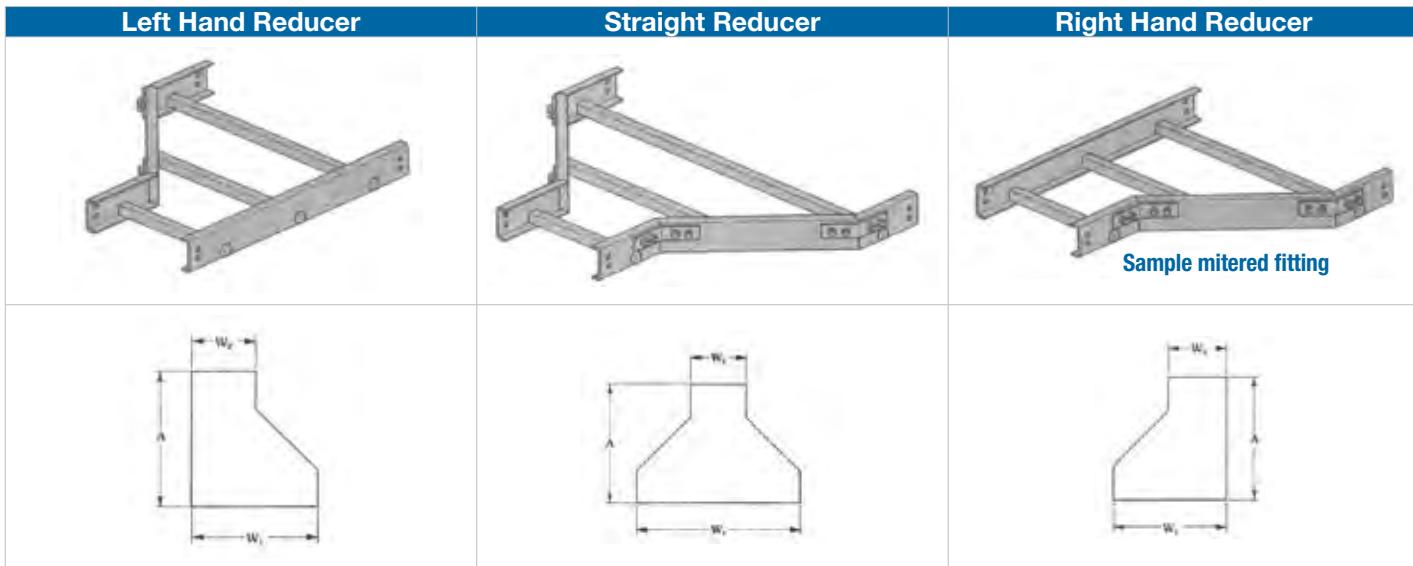
Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

4 in. Horizontal Reducers

| Part numbering system | | | | |
|-----------------------|-----|--------|----------|---------|
| NM | - M | 4 | P | 24 |
| Mitered | | Height | Material | Width 1 |
| Nonmetallic | | | | Type |

12
Width 2



| Tray Width | | Left Hand Reducer | | Straight Reducer | | Right Hand Reducer | |
|------------|----------|----------------------|---------|----------------------|---------|----------------------|---------|
| W1 (in.) | W2 (in.) | Cat. No. | A (in.) | Cat. No. | A (in.) | Cat. No. | A (in.) |
| 9 | 6 | NM-M4-(Matl)-09-LR06 | 17-1/2 | NM-M4-(Matl)-09-SR06 | 16 | NM-M4-(Matl)-09-RR06 | 17-1/2 |
| | 6 | NM-M4-(Matl)-12-LR06 | 20-1/2 | NM-M4-(Matl)-12-SR06 | 17-1/2 | NM-M4-(Matl)-12-RR06 | 20-1/2 |
| 12 | 9 | NM-M4-(Matl)-12-LR09 | 17-1/2 | NM-M4-(Matl)-12-SR09 | 16 | NM-M4-(Matl)-12-RR09 | 17-1/2 |
| | 6 | NM-M4-(Matl)-18-LR06 | 26-1/2 | NM-M4-(Matl)-18-SR06 | 20-1/2 | NM-M4-(Matl)-18-RR06 | 26-1/2 |
| 18 | 9 | NM-M4-(Matl)-18-LR09 | 23-1/2 | NM-M4-(Matl)-18-SR09 | 19 | NM-M4-(Matl)-18-RR09 | 23-1/2 |
| | 12 | NM-M4-(Matl)-18-LR12 | 20-1/2 | NM-M4-(Matl)-18-SR12 | 17-1/2 | NM-M4-(Matl)-18-RR12 | 20-1/2 |
| 24 | 6 | NM-M4-(Matl)-24-LR06 | 32-1/2 | NM-M4-(Matl)-24-SR06 | 23-1/2 | NM-M4-(Matl)-24-RR06 | 32-1/2 |
| | 9 | NM-M4-(Matl)-24-LR09 | 29-1/2 | NM-M4-(Matl)-24-SR09 | 22 | NM-M4-(Matl)-24-RR09 | 29-1/2 |
| 30 | 12 | NM-M4-(Matl)-24-LR12 | 26-1/2 | NM-M4-(Matl)-24-SR12 | 20-1/2 | NM-M4-(Matl)-24-RR12 | 26-1/2 |
| | 18 | NM-M4-(Matl)-24-LR18 | 20-1/2 | NM-M4-(Matl)-24-SR18 | 17-1/2 | NM-M4-(Matl)-24-RR18 | 20-1/2 |
| 36 | 6 | NM-M4-(Matl)-30-LR06 | 38-1/2 | NM-M4-(Matl)-30-SR06 | 26-1/2 | NM-M4-(Matl)-30-RR06 | 38-1/2 |
| | 9 | NM-M4-(Matl)-30-LR09 | 35-1/2 | NM-M4-(Matl)-30-SR09 | 25 | NM-M4-(Matl)-30-RR09 | 35-1/2 |
| 36 | 12 | NM-M4-(Matl)-30-LR12 | 32-1/2 | NM-M4-(Matl)-30-SR12 | 23-1/2 | NM-M4-(Matl)-30-RR12 | 32-1/2 |
| | 18 | NM-M4-(Matl)-30-LR18 | 26-1/2 | NM-M4-(Matl)-30-SR18 | 20-1/2 | NM-M4-(Matl)-30-RR18 | 26-1/2 |
| 36 | 24 | NM-M4-(Matl)-30-LR24 | 20-1/2 | NM-M4-(Matl)-30-SR24 | 17-1/2 | NM-M4-(Matl)-30-RR24 | 20-1/2 |
| | 6 | NM-M4-(Matl)-36-LR06 | 44-1/2 | NM-M4-(Matl)-36-SR06 | 29-1/2 | NM-M4-(Matl)-36-RR06 | 44-1/2 |
| 36 | 9 | NM-M4-(Matl)-36-LR09 | 41-1/2 | NM-M4-(Matl)-36-SR09 | 28 | NM-M4-(Matl)-36-RR09 | 41-1/2 |
| | 12 | NM-M4-(Matl)-36-LR12 | 38-1/2 | NM-M4-(Matl)-36-SR12 | 26-1/2 | NM-M4-(Matl)-36-RR12 | 38-1/2 |
| 36 | 18 | NM-M4-(Matl)-36-LR18 | 32-1/2 | NM-M4-(Matl)-36-SR18 | 23-1/2 | NM-M4-(Matl)-36-RR18 | 32-1/2 |
| | 24 | NM-M4-(Matl)-36-LR24 | 26-1/2 | NM-M4-(Matl)-36-SR24 | 20-1/2 | NM-M4-(Matl)-36-RR24 | 26-1/2 |
| 36 | 30 | NM-M4-(Matl)-36-LR30 | 20-1/2 | NM-M4-(Matl)-36-SR30 | 17-1/2 | NM-M4-(Matl)-36-RR30 | 20-1/2 |

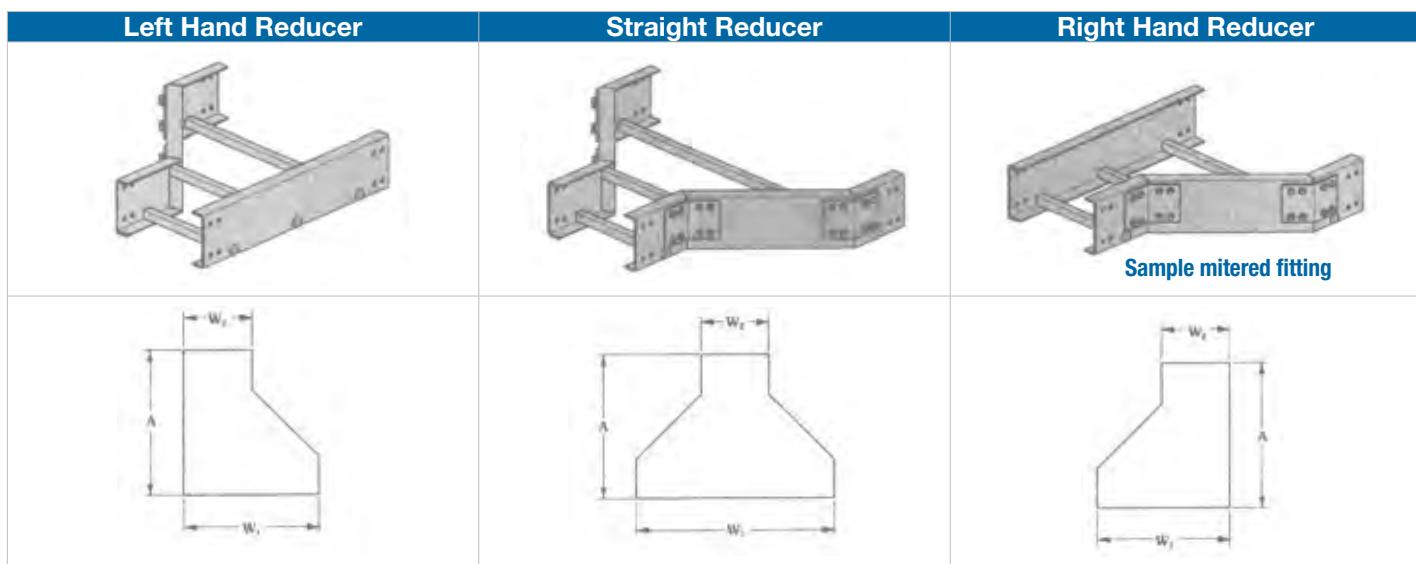
One pair of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Horizontal Reducers

| Part Numbering System | | | | | | |
|-----------------------|---------|--------|----------|---------|------|---------|
| NM | M | 6 | P | 24 | LR | 12 |
| Nonmetallic | Mitered | Height | Material | Width 1 | Type | Width 2 |



| Tray Width | | Left Hand Reducer | | Straight Reducer | | Right Hand Reducer | |
|------------|----------|----------------------|---------|----------------------|---------|----------------------|---------|
| W1 (in.) | W2 (in.) | Cat. No. | A (in.) | Cat. No. | A (in.) | Cat. No. | A (in.) |
| 9 | 6 | NM-M6-(Matl)-09-LR06 | 17-1/2 | NM-M6-(Matl)-09-SR06 | 16 | NM-M6-(Matl)-09-RR06 | 17-1/2 |
| 12 | 6 | NM-M6-(Matl)-12-LR06 | 20-1/2 | NM-M6-(Matl)-12-SR06 | 17-1/2 | NM-M6-(Matl)-12-RR06 | 20-1/2 |
| | 9 | NM-M6-(Matl)-12-LR09 | 17-1/2 | NM-M6-(Matl)-12-SR09 | 16 | NM-M6-(Matl)-12-RR09 | 17-1/2 |
| 18 | 6 | NM-M6-(Matl)-18-LR06 | 26-1/2 | NM-M6-(Matl)-18-SR06 | 20-1/2 | NM-M6-(Matl)-18-RR06 | 26-1/2 |
| | 9 | NM-M6-(Matl)-18-LR09 | 23-1/2 | NM-M6-(Matl)-18-SR09 | 19 | NM-M6-(Matl)-18-RR09 | 23-1/2 |
| | 12 | NM-M6-(Matl)-18-LR12 | 20-1/2 | NM-M6-(Matl)-18-SR12 | 17-1/2 | NM-M6-(Matl)-18-RR12 | 20-1/2 |
| 24 | 6 | NM-M6-(Matl)-24-LR06 | 32-1/2 | NM-M6-(Matl)-24-SR06 | 23-1/2 | NM-M6-(Matl)-24-RR06 | 32-1/2 |
| | 9 | NM-M6-(Matl)-24-LR09 | 29-1/2 | NM-M6-(Matl)-24-SR09 | 22 | NM-M6-(Matl)-24-RR09 | 29-1/2 |
| | 12 | NM-M6-(Matl)-24-LR12 | 26-1/2 | NM-M6-(Matl)-24-SR12 | 20-1/2 | NM-M6-(Matl)-24-RR12 | 26-1/2 |
| | 18 | NM-M6-(Matl)-24-LR18 | 20-1/2 | NM-M6-(Matl)-24-SR18 | 17-1/2 | NM-M6-(Matl)-24-RR18 | 20-1/2 |
| 30 | 6 | NM-M6-(Matl)-30-LR06 | 38-1/2 | NM-M6-(Matl)-30-SR06 | 26-1/2 | NM-M6-(Matl)-30-RR06 | 38-1/2 |
| | 9 | NM-M6-(Matl)-30-LR09 | 35-1/2 | NM-M6-(Matl)-30-SR09 | 25 | NM-M6-(Matl)-30-RR09 | 35-1/2 |
| | 12 | NM-M6-(Matl)-30-LR12 | 32-1/2 | NM-M6-(Matl)-30-SR12 | 23-1/2 | NM-M6-(Matl)-30-RR12 | 32-1/2 |
| | 18 | NM-M6-(Matl)-30-LR18 | 26-1/2 | NM-M6-(Matl)-30-SR18 | 20-1/2 | NM-M6-(Matl)-30-RR18 | 26-1/2 |
| | 24 | NM-M6-(Matl)-30-LR24 | 20-1/2 | NM-M6-(Matl)-30-SR24 | 17-1/2 | NM-M6-(Matl)-30-RR24 | 20-1/2 |
| 36 | 6 | NM-M6-(Matl)-36-LR06 | 44-1/2 | NM-M6-(Matl)-36-SR06 | 29-1/2 | NM-M6-(Matl)-36-RR06 | 44-1/2 |
| | 9 | NM-M6-(Matl)-36-LR09 | 41-1/2 | NM-M6-(Matl)-36-SR09 | 28 | NM-M6-(Matl)-36-RR09 | 41-1/2 |
| | 12 | NM-M6-(Matl)-36-LR12 | 38-1/2 | NM-M6-(Matl)-36-SR12 | 26-1/2 | NM-M6-(Matl)-36-RR12 | 38-1/2 |
| | 18 | NM-M6-(Matl)-36-LR18 | 32-1/2 | NM-M6-(Matl)-36-SR18 | 23-1/2 | NM-M6-(Matl)-36-RR18 | 32-1/2 |
| | 24 | NM-M6-(Matl)-36-LR24 | 26-1/2 | NM-M6-(Matl)-36-SR24 | 20-1/2 | NM-M6-(Matl)-36-RR24 | 26-1/2 |
| | 30 | NM-M6-(Matl)-36-LR30 | 20-1/2 | NM-M6-(Matl)-36-SR30 | 17-1/2 | NM-M6-(Matl)-36-RR30 | 20-1/2 |

One pair of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

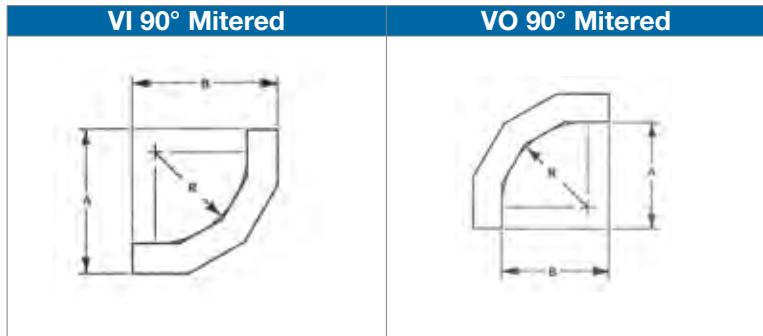
Fittings

3 in. Vertical Bends

| Part Numbering System | | | | | | |
|-----------------------|---|---------|--------|----------|-------|--------|
| NM | - | M | 3 | P | 24 | 90 |
| Nonmetallic | | Mitered | Height | Material | Width | Angle |
| | | | | | | Type |
| | | | | | | Radius |



VO Vertical Outside Bend
Sample Mitered

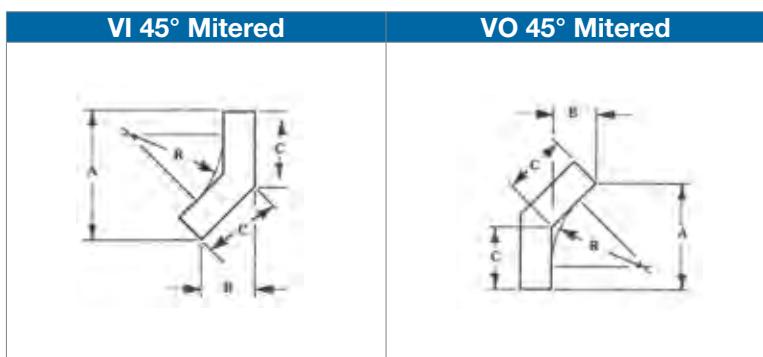


| Vertical Bend (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 90° | | | |
|------------------------|---------------------|-------------------------|-----------------------|----------|----------------------|----------|
| | | | Vertical Outside Bend | | Vertical Inside Bend | |
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M3-(Matl)-06-90(*12) | 23-15/16 | 23-15/16 | 26-15/16 | 26-15/16 |
| | 9 | NM-M3-(Matl)-09-90(*12) | | | | |
| | 12 | NM-M3-(Matl)-12-90(*12) | | | | |
| | 18 | NM-M3-(Matl)-18-90(*12) | | | | |
| | 24 | NM-M3-(Matl)-24-90(*12) | | | | |

* Add: VI - For vertical inside / VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.



VI Vertical Outside Bend
Sample Mitered



| Vertical Bend (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 45° | | | | | |
|------------------------|---------------------|-------------------------|-----------------------|---------|---------|----------------------|---------|---------|
| | | | Vertical Outside Bend | | | Vertical Inside Bend | | |
| | | | A (in.) | B (in.) | C (in.) | A (in.) | B (in.) | C (in.) |
| 12 | 6 | NM-M3-(Matl)-06-45(*12) | 20-1/2 | 8-1/2 | 12 | 22-5/8 | 9-3/8 | 13-1/4 |
| | 9 | NM-M3-(Matl)-09-45(*12) | | | | | | |
| | 12 | NM-M3-(Matl)-12-45(*12) | | | | | | |
| | 18 | NM-M3-(Matl)-18-45(*12) | | | | | | |
| | 24 | NM-M3-(Matl)-24-45(*12) | | | | | | |

* Add: VI - For vertical inside / VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

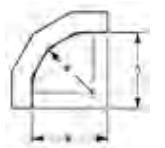
4 in. Vertical Bends

| Part Numbering System | | | | | | |
|-----------------------|---|---------|--------|----------|-------|--------|
| NM | - | M | 4 | P | 24 | 90 |
| Nonmetallic | | Mitered | Height | Material | Width | Angle |
| | | | | Type | | |
| | | | | | 12 | Radius |

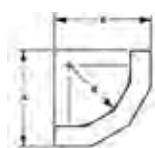
† For molded fitting, if available, please remove "M" in the catalogue number.
Ex: NM-4P-24-90HB12



VO Vertical Outside Bend
Sample Mitered



VI 90° Mitered



VO 90° Mitered

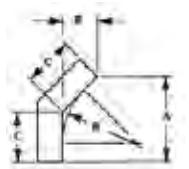
| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 90° | | | |
|----------------------|------------------|--------------------------|-----------------------|---------|----------------------|---------|
| | | | Vertical Outside Bend | | Vertical Inside Bend | |
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-90(*12†) | 19-1/4 | 19-1/4 | 23-1/4 | 23-1/4 |
| | 9 | NM-M4-(Matl)-09-90(*12†) | | | | |
| | 12 | NM-M4-(Matl)-12-90(*12†) | | | | |
| | 18 | NM-M4-(Matl)-18-90(*12†) | | | | |
| | 24 | NM-M4-(Matl)-24-90(*12†) | | | | |
| | 30 | NM-M4-(Matl)-30-90(*12†) | | | | |
| | 36 | NM-M4-(Matl)-36-90(*12†) | | | | |
| 24 | 6 | NM-M4-(Matl)-06-90(*24) | 31-1/4 | 31-1/4 | 35-1/4 | 35-1/4 |
| | 9 | NM-M4-(Matl)-09-90(*24) | | | | |
| | 12 | NM-M4-(Matl)-12-90(*24) | | | | |
| | 18 | NM-M4-(Matl)-18-90(*24) | | | | |
| | 24 | NM-M4-(Matl)-24-90(*24) | | | | |
| | 30 | NM-M4-(Matl)-30-90(*24) | | | | |
| | 36 | NM-M4-(Matl)-36-90(*24) | | | | |
| 36 | 6 | NM-M4-(Matl)-06-90(*36) | 37-3/4 | 37-3/4 | 41-3/4 | 41-3/4 |
| | 9 | NM-M4-(Matl)-09-90(*36) | | | | |
| | 12 | NM-M4-(Matl)-12-90(*36) | | | | |
| | 18 | NM-M4-(Matl)-18-90(*36) | | | | |
| | 24 | NM-M4-(Matl)-24-90(*36) | | | | |
| | 30 | NM-M4-(Matl)-30-90(*36) | | | | |
| | 36 | NM-M4-(Matl)-36-90(*36) | | | | |

*Add VI - For vertical inside VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.

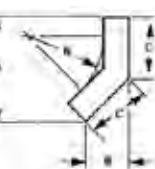
† Denotes molded fitting available.



VI Vertical Outside Bend
Sample Mitered



VI 45° Mitered



VO 45° Mitered

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 45° | | | | | |
|----------------------|------------------|--------------------------|-----------------------|---------|----------|----------------------|----------|---------|
| | | | Vertical Outside Bend | | | Vertical Inside Bend | | |
| | | | A (in.) | B (in.) | C (in.) | A (in.) | B (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-45(*12†) | 13-5/8 | 5-5/8 | 8 | 16-7/8 | 2-13/16 | 6-13/16 |
| | 9 | NM-M4-(Matl)-09-45(*12†) | | | | | | |
| | 12 | NM-M4-(Matl)-12-45(*12†) | | | | | | |
| | 18 | NM-M4-(Matl)-18-45(*12†) | | | | | | |
| | 24 | NM-M4-(Matl)-24-45(*12†) | | | | | | |
| | 30 | NM-M4-(Matl)-30-45(*12†) | | | | | | |
| | 36 | NM-M4-(Matl)-36-45(*12†) | | | | | | |
| 24 | 6 | NM-M4-(Matl)-06-45(*24) | 22-1/16 | 9-1/8 | 12-15/16 | 24-15/16 | 10-5/16 | 14-5/8 |
| | 9 | NM-M4-(Matl)-09-45(*24) | | | | | | |
| | 12 | NM-M4-(Matl)-12-45(*24) | | | | | | |
| | 18 | NM-M4-(Matl)-18-45(*24) | | | | | | |
| | 24 | NM-M4-(Matl)-24-45(*24) | | | | | | |
| | 30 | NM-M4-(Matl)-30-45(*24) | | | | | | |
| | 36 | NM-M4-(Matl)-36-45(*24) | | | | | | |
| 36 | 6 | NM-M4-(Matl)-06-45(*36) | 37-7/16 | 15-1/2 | 21-15/16 | 40-5/16 | 16-11/16 | 23-5/8 |
| | 9 | NM-M4-(Matl)-09-45(*36) | | | | | | |
| | 12 | NM-M4-(Matl)-12-45(*36) | | | | | | |
| | 18 | NM-M4-(Matl)-18-45(*36) | | | | | | |
| | 24 | NM-M4-(Matl)-24-45(*36) | | | | | | |
| | 30 | NM-M4-(Matl)-30-45(*36) | | | | | | |
| | 36 | NM-M4-(Matl)-36-45(*36) | | | | | | |

* Add VI - For vertical inside / VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.

† Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Vertical Bends

†For molded fitting,
if available, please remove
"M" in the catalogue number.
Ex: NM-6P2490VI12

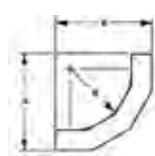
| Part Numbering System | | | | | | | |
|-----------------------|---------|--------|----------|-------|-------|------|--------|
| NM | M | 6 | P | 24 | 90 | VI | 12 |
| Nonmetallic | Mitered | Height | Material | Width | Angle | Type | Radius |



Vertical Outside Bend
Sample Mitered



VI 90° Mitered



VO 90° Mitered

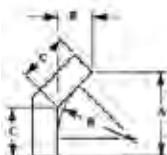
| -R- Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 90° | | | |
|-----------------------------|---------------------|--------------------------|-----------------------|---------|----------------------|----------|
| | | | Vertical Outside Bend | | Vertical Inside Bend | |
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M6-(Matl)-06-90(*12) | 26 | 26 | 26-13/16 | 26-13/16 |
| | 9 | NM-M6-(Matl)-09-90(*12) | | | | |
| | 12 | NM-M6-(Matl)-12-90(*12) | | | | |
| | 18 | NM-M6-(Matl)-18-90(*12) | | | | |
| | 24 | NM-M6-(Matl)-24-90(*12) | | | | |
| | 30 | NM-M6-(Matl)-30-90(*12) | | | | |
| | 36 | NM-M6-(Matl)-36-90(*12) | | | | |
| 24 | 6 | NM-M6-(Matl)-06-90(*24)† | 31-1/4 | 31-1/4 | 37-1/4 | 37-1/4 |
| | 9 | NM-M6-(Matl)-09-90(*24)† | | | | |
| | 12 | NM-M6-(Matl)-12-90(*24)† | | | | |
| | 18 | NM-M6-(Matl)-18-90(*24)† | | | | |
| | 24 | NM-M6-(Matl)-24-90(*24)† | | | | |
| | 30 | NM-M6-(Matl)-30-90(*24)† | | | | |
| | 36 | NM-M6-(Matl)-36-90(*24)† | | | | |
| 36 | 6 | NM-M6-(Matl)-06-90(*36) | 43-1/4 | 43-1/4 | 49-1/4 | 49-1/4 |
| | 9 | NM-M6-(Matl)-09-90(*36) | | | | |
| | 12 | NM-M6-(Matl)-12-90(*36) | | | | |
| | 18 | NM-M6-(Matl)-18-90(*36) | | | | |
| | 24 | NM-M6-(Matl)-24-90(*36) | | | | |
| | 30 | NM-M6-(Matl)-30-90(*36) | | | | |
| | 36 | NM-M6-(Matl)-36-90(*36) | | | | |

*Add VI - For vertical inside VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.

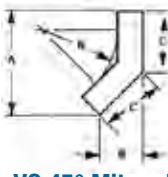
† Denotes molded fitting available.



Vertical Inside Bend
Sample Mitered



VI 45° Mitered



VO 45° Mitered

| -R- Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Bend 45° | | | |
|-----------------------------|---------------------|--------------------------|-----------------------|----------|----------------------|----------|
| | | | Vertical Outside Bend | | Vertical Inside Bend | |
| | | | A (in.) | B (in.) | C (in.) | A (in.) |
| 12 | 6 | NM-M6-(Matl)-06-45(*24) | 20-1/2 | 8-1/2 | 12 | 24-3/4 |
| | 9 | NM-M6-(Matl)-09-45(*24) | | | | |
| | 12 | NM-M6-(Matl)-12-45(*24) | | | | |
| | 18 | NM-M6-(Matl)-18-45(*24) | | | | |
| | 24 | NM-M6-(Matl)-24-45(*24) | | | | |
| | 30 | NM-M6-(Matl)-30-45(*24) | | | | |
| | 36 | NM-M6-(Matl)-36-45(*24) | | | | |
| 24 | 6 | NM-M6-(Matl)-06-45(*24)† | 22-1/4 | 9-1/8 | 12-15/16 | 26-5/16 |
| | 9 | NM-M6-(Matl)-09-45(*24)† | | | | |
| | 12 | NM-M6-(Matl)-12-45(*24)† | | | | |
| | 18 | NM-M6-(Matl)-18-45(*24)† | | | | |
| | 24 | NM-M6-(Matl)-24-45(*24)† | | | | |
| | 30 | NM-M6-(Matl)-30-45(*24)† | | | | |
| | 36 | NM-M6-(Matl)-36-45(*24)† | | | | |
| 36 | 6 | NM-M6-(Matl)-06-45(*36) | 30-9/16 | 12-11/16 | 17-15/16 | 34-13/16 |
| | 9 | NM-M6-(Matl)-09-45(*36) | | | | |
| | 12 | NM-M6-(Matl)-12-45(*36) | | | | |
| | 18 | NM-M6-(Matl)-18-45(*36) | | | | |
| | 24 | NM-M6-(Matl)-24-45(*36) | | | | |
| | 30 | NM-M6-(Matl)-30-45(*36) | | | | |
| | 36 | NM-M6-(Matl)-36-45(*36) | | | | |

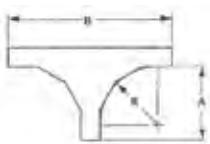
*Add VI - For vertical inside VO - For vertical outside. One pair of stainless steel SS6 splice plates with SS6 hardware included.

† Denotes molded fitting available.

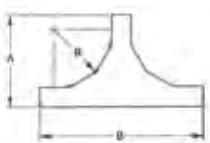
Fittings

3 in. Vertical Tees

| Part Numbering System | | | | | | | |
|-----------------------|---|---------|--------|----------|-------|------|--------|
| NM | - | M | 3 | P | 24 | VTD | 12 |
| Nonmetallic | | Mitered | Height | Material | Width | Type | Radius |



VTD
Vertical Tee Down
Sample Mitered



VTU
Vertical Tee Up
Sample Mitered

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Tee Down | | Vertical Tee Up | |
|----------------------|------------------|-----------------------|-------------------|---------|-----------------|---------|
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M3-(Matl)-06-(*12) | | | | |
| | 9 | NM-M3-(Matl)-09-(*12) | | | | |
| | 12 | NM-M3-(Matl)-12-(*12) | 23-15/16 | 50-7/8 | 26-15/16 | 50-7/8 |
| | 18 | NM-M3-(Matl)-18-(*12) | | | | |
| | 24 | NM-M3-(Matl)-24-(*12) | | | | |

* Add: VTD - For vertical tee down / VTU - For vertical tee up. Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

4 in. Vertical Tees

[†]For molded fitting,
if available, please remove
"M" in the catalogue number.
Ex: NM-4P24VTD12

Part Numbering System

| NM | M | 4 | P | 24 | VTD | 12 |
|-------------|---------|--------|----------|-------|------|--------|
| Nonmetallic | Mitered | Height | Material | Width | Type | Radius |

| -R-Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Tee Down | | Vertical Tee Up | |
|-------------------------|---------------------|-------------------------|-------------------|---------|-----------------|---------|
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M4-(Matl)-06-(")12 † | 19-1/4 | 42-1/2 | 23-1/4 | 42-1/2 |
| | 9 | NM-M4-(Matl)-09-(")12 † | | | | |
| | 12 | NM-M4-(Matl)-12-(")12 † | | | | |
| | 18 | NM-M4-(Matl)-18-(")12 † | | | | |
| | 24 | NM-M4-(Matl)-24-(")12 † | | | | |
| | 30 | NM-M4-(Matl)-30-(")12 † | | | | |
| | 36 | NM-M4-(Matl)-36-(")12 † | | | | |
| 24 | 6 | NM-M4-(Matl)-06-(")24 | 31-1/4 | 66-1/2 | 35-1/4 | 66-1/2 |
| | 9 | NM-M4-(Matl)-09-(")24 | | | | |
| | 12 | NM-M4-(Matl)-12-(")24 | | | | |
| | 18 | NM-M4-(Matl)-18-(")24 | | | | |
| | 24 | NM-M4-(Matl)-24-(")24 | | | | |
| | 30 | NM-M4-(Matl)-30-(")24 | | | | |
| | 36 | NM-M4-(Matl)-36-(")24 | | | | |
| 36 | 6 | NM-M4-(Matl)-06-(")36 | 37-3/4 | 79-1/2 | 41-3/4 | 79-1/2 |
| | 9 | NM-M4-(Matl)-09-(")36 | | | | |
| | 12 | NM-M4-(Matl)-12-(")36 | | | | |
| | 18 | NM-M4-(Matl)-18-(")36 | | | | |
| | 24 | NM-M4-(Matl)-24-(")36 | | | | |
| | 30 | NM-M4-(Matl)-30-(")36 | | | | |

* Add: VTD - For vertical tee down / VTU - For vertical tee up Two pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Fittings

6 in. Vertical Tees

†For molded fitting,
if available, please remove
"M" in the catalogue number.
Ex: NM-6P24VTD12

Part Numbering System

| NM | M | 6 | P | 24 | VTD | 12 |
|-------------|---------|--------|----------|-------|------|--------|
| Nonmetallic | Mitered | Height | Material | Width | Type | Radius |

| -R- Bend Radius (in.) | Tray Width (in.) | Cat. No. | Vertical Tee Down | | Vertical Tee Up | |
|-----------------------------|---------------------|-------------------------|-------------------|---------|-----------------|---------|
| | | | A (in.) | B (in.) | A (in.) | B (in.) |
| 12 | 6 | NM-M6-(Matl)-06-(*)12 | 26 | 58 | 32 | 58 |
| | 9 | NM-M6-(Matl)-09-(*)12 | | | | |
| | 12 | NM-M6-(Matl)-12-(*)12 | | | | |
| | 18 | NM-M6-(Matl)-18-(*)12 | | | | |
| | 24 | NM-M6-(Matl)-24-(*)12 | | | | |
| | 30 | NM-M6-(Matl)-30-(*)12 | | | | |
| 24 | 6 | NM-M6-(Matl)-06-(*)24 † | 31-1/4 | 68-1/2 | 37-1/4 | 68-1/2 |
| | 9 | NM-M6-(Matl)-09-(*)24 † | | | | |
| | 12 | NM-M6-(Matl)-12-(*)24 † | | | | |
| | 18 | NM-M6-(Matl)-18-(*)24 † | | | | |
| | 24 | NM-M6-(Matl)-24-(*)24 † | | | | |
| | 30 | NM-M6-(Matl)-30-(*)24 † | | | | |
| 36 | 6 | NM-M6-(Matl)-06-(*)36 | 43-1/2 | 92-1/2 | 49-1/2 | 92-1/2 |
| | 9 | NM-M6-(Matl)-09-(*)36 | | | | |
| | 12 | NM-M6-(Matl)-12-(*)36 | | | | |
| | 18 | NM-M6-(Matl)-18-(*)36 | | | | |
| | 24 | NM-M6-(Matl)-24-(*)36 | | | | |
| | 30 | NM-M6-(Matl)-30-(*)36 | | | | |
| | 36 | NM-M6-(Matl)-36-(*)36 | | | | |

* Add: VTD - For vertical tee down / VTU - For vertical tee up Two pairs of stainless steel SS6 splice plates with SS6 hardware included. † Denotes molded fitting available.

Dimensions for reference only, when critical contact factory. Consult factory for availability of molded fittings.
Standard rung spacing for fittings is 9 in. For other types of splice plates, see page A274-A276.

Splice Plates



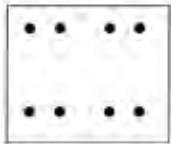
Splice Plate Selection Guide

| NM | - X | SS | 4 | 00 | 4 | () | SS6 |
|-------------------|------------------|---|---------------------|--|-------------------------|--------------------------------|--|
| Cable Tray System | Accessory Number | Material | # of Holes in Plate | Type/ Angle | Tray Serie | Type | Hardware |
| Nonmetallic | | SS - Stainless steel FP - Polyester resin FV - Vinylester resin | 4 8 | 00 - Straight 4 - Step down 01 - Slotted straight 05 - Tray to box 02 - Vertical adjustable 30 - 30° Angle 03 - Horizontal adjustable 45 - 45° Angle 90 - 90° Angle | 3 in. 4 in. 6 in. | V - Vertical H - Horizontal | SS6 - 316 Stainless steel FR - Fiberglass |

Example: NM-XSS4004SS6, 316 Stainless steel, 4 holes supplied with 316 Stainless steel hardware for a 4 in. deep straight section.

Note: Splice plates shown on pages A274-A276 represent splices for 6 in. side rail height. Number of holes may vary with other side rail heights.

Standard Splice plates



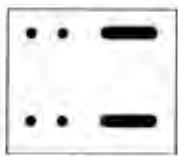
Quantity required supplied with each tray section.

Order only pairs of splice plates needed for field modifications. SS6 hardware supplied as standard -use SS6 suffix. Other hardware available, specify by hardware suffix. Hardware other than SS6 is considered special.

| Cat. No. | Material | Height (in.) |
|--------------|----------|--------------|
| NM-XSS-8006* | | 6 |
| NM-XSS-4004* | | 4 |
| NM-XSS-4003* | | 3 |

* Hardware suffix needed to complete part number

Expansion Splice plates



These plates allow for up to 1 in. expansion or contraction of tray system.

For correct gap setting procedure, see page A238.

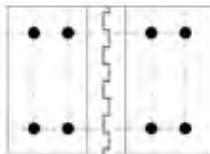
| Cat. No. | Material | Side Rail Height (in.) |
|--------------|----------|------------------------|
| NM-XSS-8016* | | 6 |
| NM-XSS-4014* | | 4 |
| NM-XSS-4013* | | 3 |

* Hardware suffix needed to complete part number

All splice plate hardware is 3/8 in.

Splice Plates

Horizontal Adjustable Splice plates



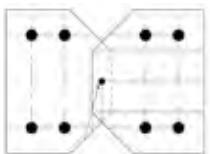
These plates provide for changes in the horizontal direction that do not conform to standard fittings.

Furnished in pairs.

| Cat. No. | Material | Height (in.) |
|--------------|-----------------------------------|--------------|
| NM-XSS-8036* | Stainless steel 316 (16 gauge) | 6 |
| NM-XSS-4024* | | 4 |
| NM-XSS-4023* | | 3 |

* Hardware suffix needed to complete part number

Vertical Adjustable Splice plates



These plates provide for changes in elevation that do not conform to standard vertical fittings.

Furnished in pairs.

| Cat. No. | Material | Height (in.) |
|--------------|-----------------------------------|--------------|
| NM-XSS-8026* | Stainless steel 316 (16 gauge) | 6 |
| NM-XSS-4024* | | 4 |
| NM-XSS-4023* | | 3 |

* Hardware suffix needed to complete part number

Blind End Plates



This plate forms a closure for any tray that dead ends.

Furnished as one plate.

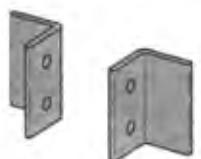
| Cat. No. | Material | Height (in.) |
|----------------|-------------------------|--------------|
| NM-XBE*1086W** | Polyester Vinylester | 6 |
| NM-XBE*1084W** | | 4 |
| NM-XBE*1083W** | | 3 |

* Material suffix, P=Polyester, V= Vinylester

** Hardware suffix needed to complete part number

W = Tray width

Tray to Box Splice Plates



These plates are used to attach the end of a tray run to a distribution box or control center.

Furnished in pairs.

| Cat. No. Polyester Resin | Cat. No. Vinylester Resin | Height (in.) |
|-----------------------------|------------------------------|--------------|
| NM-XFP8056 | NM-XFV8056 | 6 |
| NM-XFP4054 | NM-XFV4054 | 4 |
| NM-XFP4053 | NM-XFV4053 | 3 |

Stainless steel hardware included.

Step Down Plates



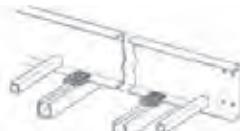
These splice plates provide for changes in side rail heights.

Furnished in pairs.

| Cat. No. Stainless Steel | Cat. No. Polyester Resin | Cat. No. Vinylester Resin | Height (in.) |
|-----------------------------|-----------------------------|------------------------------|--------------|
| NM-XSS-8063* | NM-XFP-8063* | NM-XFV-8063* | 6 to 3 |
| NM-XSS-8064* | NM-XFP-8064* | NM-XFV-8064* | 6 to 4 |
| NM-XSS-4043* | NM-XFP-4043* | NM-XFV-4043* | 4 to 3 |

* Hardware suffix needed to complete part number

Clamp/Guide Fiberglass



Combination hold down clamp and guide. Designed for 3/8" hardware - not included. Furnished in pairs.

| Cat. No. | Material |
|-------------|-----------------|
| NM-XFP-1208 | Polyester Resin |

All splice plate hardware is 3/8 in. Splice plates shown represent splices for 6 in. side rail height. Number of holes may vary with other side rail heights.

Splice Plates

Vertical Splice Plate (These splice plates provide for changes in elevation. Furnished in pairs.)

| | Cat. No. Stainless Steel | Cat. No. Polyester Resin | Cat. No. Vinylester Resin | Height (in.) |
|------------|-----------------------------|-----------------------------|------------------------------|--------------|
| 90° | | | | |
| | NM-XSS-8906V* | NM-XFP-8906V* | NM-XFV-8906V* | 6 |
| | NM-XSS-4904V* | NM-XFP-4904V* | NM-XFV-4904V* | 4 |
| | NM-XSS-4903V* | NM-XFP-4903V* | NM-XFV-4903V* | 3 |
| 45° | | | | |
| | NM-XSS-8456V* | NM-XFP-8456V* | NM-XFV-8456V* | 6 |
| | NM-XSS-4454V* | NM-XFP-4454V* | NM-XFV-4454V* | 4 |
| | NM-XSS-4453V* | NM-XFP-4453V* | NM-XFV-4453V* | 3 |
| 30° | | | | |
| | NM-XSS-8306V* | NM-XFP-8306V* | NM-XFV-8306V* | 6 |
| | NM-XSS-4304V* | NM-XFP-4304V* | NM-XFV-4304V* | 4 |
| | NM-XSS-4303V* | NM-XFP-4303V* | NM-XFV-4303V* | 3 |

* Hardware suffix needed to complete part number

Horizontal Splice Plates (These splice plates provide for changes in the horizontal direction. Furnished in pairs.)

| | Cat. No. Stainless Steel | Cat. No. Polyester Resin | Cat. No. Vinylester Resin | Height (in.) |
|------------|-----------------------------|-----------------------------|------------------------------|--------------|
| 90° | | | | |
| | NM-XSS-8906H* | NM-XFP-8906H* | NM-XFV-8906H* | 6 |
| | NM-XSS-4904H* | NM-XFP-4904H* | NM-XFV-4904H* | 4 |
| | NM-XSS-4903H* | NM-XFP-4903H* | NM-XFV-4903H* | 3 |
| 45° | | | | |
| | NM-XSS-8456H* | NM-XFP-8456H* | NM-XFV-8456H* | 6 |
| | NM-XSS-4454H* | NM-XFP-4454H* | NM-XFV-4454H* | 4 |
| | NM-XSS-4453H* | NM-XFP-4453H* | NM-XFV-4453H* | 3 |
| 30° | | | | |
| | NM-XSS-8306H* | NM-XFP-8306H* | NM-XFV-8306H* | 6 |
| | NM-XSS-4304H* | NM-XFP-4304H* | NM-XFV-4304H* | 4 |
| | NM-XSS-4303H* | NM-XFP-4303H* | NM-XFV-4303H* | 3 |

* Hardware suffix needed to complete part number

All splice plate hardware is 3/8 in. Splice plates shown represent splices for 6 in. side rail height. Number of holes may vary with other side rail heights.

Drop Outs and Barrier Strips

Ladder Drop-out



Specially-designed ladder drop-outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventing damage to insulation.

| Cat. No. | Material | Height (in.) |
|---------------|-----------------|--------------|
| NM-XDOP1104-W | Polyester resin | 6 to 36 |

Supplied with a 4 in. Radius. W = Tray width

Barriers



Furnished with #10 x 3/4 in. self-tapping stainless steel screws

| Cat. No. | Material | Side Rail Height (in.) |
|--------------|-------------------|------------------------|
| NM-BS06P-120 | Polyester resin | 6 |
| NM-BS04P-120 | | 4 |
| NM-BS03P-120 | | 3 |
| NM-BS06V-120 | Vinyl ester resin | 6 |
| NM-BS04V-120 | | 4 |
| NM-BS03V-120 | | 3 |

Flexible Horizontal Barrier Kit



Kit Contents
 • 1 pc - 72 in. Straight Barrier
 • 4 pc - XF-9002 Barrier Strip Clip
 • 8 pc - SS6 "Pop" Rivets
 • 4 Pcs - #10 x 3/4 in. Stainless steel self-tapping screw
 • Assembly required - directions included.

| Cat. No. | Material | Side Rail Height (in.) | Loading Depth (in.) |
|-----------------|-------------------|------------------------|---------------------|
| NM-BS06P-90HBFL | Polyester resin | 6 | 4-11/16 |
| NM-BS04P-90HBFL | | 4 | 2-11/16 |
| NM-BS03P-90HBFL | | 3 | 1-3/4 |
| NM-BS06V-90HBFL | Vinyl ester resin | 6 | 4-11/16 |
| NM-BS04V-90HBFL | | 4 | 2-11/16 |
| NM-BS03V-90HBFL | | 3 | 1-3/4 |

One kit allows up to 38 in. radius position of the barrier.
 For larger than 38 in. radius barrier position, two kits are required.

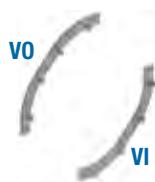
Barrier Mounting Angle Clips with Fasteners



1 pack contains
 • 4 angle clips and fasteners.
 • 2 SS6 "Pop" Rivets
 • 1 #10 x 3/4 in. stainless steel self-tapping screw.

| Cat. No. Stainless Steel | Material |
|-----------------------------|--|
| NM-PK-BAC | Injection molded glass filled nylon (black colour) |

Vertical Barrier



Barriers for vertical fitting.
 Please add angle (X) and radius (†) to catalogue number.
 Furnished with #10 X 3/4 in. self-tapping stainless steel screws.

| Cat. No. | Material | Height (in.) |
|---------------------|-------------------|--------------|
| NM-BS06P(X)VI/VO(†) | Polyester resin | 6 |
| NM-BS04P(X)VI/VO(†) | | 4 |
| NM-BS03P(X)VI/VO(†) | | 3 |
| NM-BS06V(X)VI/VO(†) | Vinyl ester resin | 6 |
| NM-BS04V(X)VI/VO(†) | | 4 |
| NM-BS03V(X)VI/VO(†) | | 3 |

VI=Inside vertical , VO=Outside vertical

Sealants

Spray Sealant



Spray acrylic to reseal
fiberglass after field
modifications.

| Cat. No. | Description |
|---------------|----------------|
| NM-CLEAR-1215 | 12 fl. oz. can |

Should be used for top coating polyester applications only. Not recommended to seal vinylester.

Resin Seal Kit



| Cat. No. | Material |
|-----------|-------------------------|
| NM-RSK-QT | Resin seal kit - 946 ml |

Kit Contents

- Resin
- Catalyst
- Stir stick and applicator

Covers and Accessories + 1 Pop Rivet

Covers for Straight Sections

| COVERS SELECTION GUIDE | | | | | | |
|---|-------------------|--------------------------|--|-----------------|------------------|--|
|  | NM | - FC | P | 12 | 120 | |
| | CABLE TRAY SYSTEM | TYPE OF COVER | Material | Tray width | Length | |
| | Nonmetallic | FC = Flat PC = Peaked | P - Polyester resin V - Vinyl ester resin | 6 in. to 36 in. | 120 in. (10 ft.) | |

Note : Peaked covers available for straight sections only.

Covers for Fittings

| COVERS SELECTION GUIDE | | | | | | |
|--|-------------------|---------------|--|-----------------|-------------------------|----------------------|
| Material thickness: 1/8 in. Standard mounting hardware: (10 each) #10 x 1/2 in. stainless, self-tapping screws provided with each section. | NM | - FC | P | 12 | HB | 90 |
| | CABLE TRAY SYSTEM | TYPE OF COVER | Material | Width | Fitting Designation | ANGLE |
| | Nonmetallic | FC = Flat | P - Polyester resin V - Vinyl ester resin | 6 in. to 36 in. | HB VI/VO HT HX | 30 45 60 90 |
| Radius | | | | | | |
| | | | | | | 12 24 36 |

Note: Peaked covers not available. Other fitting covers are available. Please consult your Regional Sales office.

Heavy-Duty Cover Clamp



Recommended for outdoor service.
Heavy-duty cover clamp available for flat covers only. Available in stainless steel only.

| Cat. No. | Material | Side Rail Height (in.) |
|------------------|-----------------|------------------------|
| NM-XWC-P-W*-9064 | Stainless steel | 6 |
| NM-XWC-P-W*-9044 | | 4 |
| NM-XWC-P-W*-9034 | | 3 |

* W = Tray width

SS Pop Rivets



Shipped in packages of 25 pcs.

| Cat. No. | Material |
|----------|---------------|
| TPDR | Thermoplastic |

Raised cover clamps available.
Please consult your Regional Sales office.

Straight Lengths

Thomas & Betts offers nonmetallic cable channel in solid or ventilated straight sections. Horizontal and vertical solid bottom fittings are also available to complete your system layout.

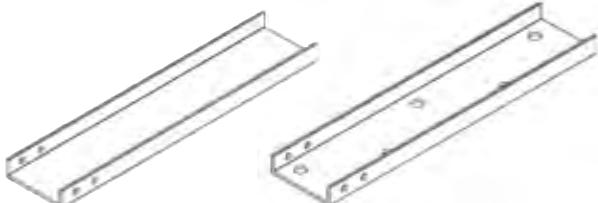


Straight section catalogue selector

| NM | - FCC | V | P | 04 | - 120 |
|-------------------|--------------------------|--------------------------------------|--|--|--------------------------------------|
| CABLE TRAY SYSTEM | Serie | Bottom Type | Material | Width (in.) | Length |
| Nonmetallic | Fiberglass cable channel | V = Ventilated N = Non ventilated | P - Polyester resin V - Vinyl ester resin | 02 = 2 03 = 3 04 = 4 06 = 6 08 = 8 | 120 in. = 10 ft. 240 in. = 20 ft. |

Example: NM-FCCVP04-120 for polyester resin cable channel, 4 in. wide ventilated bottom, 120 in. (10 ft.) length.

Note: Straights are provided without splice plate.



Specifications

| Ventilated | | | | |
|-------------|--------------|--------------|-----------------|-----------------|
| Width (in.) | Height (in.) | Length (ft.) | Polyester | Vinyl Ester |
| 2 | 1 | 10 | NM-FCCVP-02-120 | NM-FCCVV-02-120 |
| | 1 | 20 | NM-FCCVP-02-240 | NM-FCCVV-02-240 |
| 3 | 1 | 10 | NM-FCCVP-03-120 | NM-FCCVV-03-120 |
| | 1 | 20 | NM-FCCVP-03-240 | NM-FCCVV-03-240 |
| 4 | 1-1/8 | 10 | NM-FCCVP-04-120 | NM-FCCVV-04-120 |
| | 1-1/8 | 20 | NM-FCCVP-04-240 | NM-FCCVV-04-240 |
| 6 | 1-5/8 | 10 | NM-FCCVP-06-120 | NM-FCCVV-06-120 |
| | 1-5/8 | 20 | NM-FCCVP-06-240 | NM-FCCVV-06-240 |
| 8 | 2-3/16 | 10 | NM-FCCVP-08-120 | NM-FCCVV-08-120 |
| | 2-3/16 | 20 | NM-FCCVP-08-240 | NM-FCCVV-08-240 |

Splice plates NOT included. See page A274-A276 for type of splice plates available.

Covers are available. Please consult your Regional Sales Office.

| Non Ventilated | | | | |
|----------------|--------------|--------------|-----------------|-----------------|
| Width (in.) | Height (in.) | Length (ft.) | Polyester | Vinyl Ester |
| 2 | 1 | 10 | NM-FCCNP-02-120 | NM-FCCNV-02-120 |
| | 1 | 20 | NM-FCCNP-02-240 | NM-FCCNV-02-240 |
| 3 | 1 | 10 | NM-FCCNP-03-120 | NM-FCCNV-03-120 |
| | 1 | 20 | NM-FCCNP-03-240 | NM-FCCNV-03-240 |
| 4 | 1-1/8 | 10 | NM-FCCNP-04-120 | NM-FCCNV-04-120 |
| | 1-1/8 | 20 | NM-FCCNP-04-240 | NM-FCCNV-04-240 |
| 6 | 1-5/8 | 10 | NM-FCCNP-06-120 | NM-FCCNV-06-120 |
| | 1-5/8 | 20 | NM-FCCNP-06-240 | NM-FCCNV-06-240 |
| 8 | 2-3/16 | 10 | NM-FCCNP-08-120 | NM-FCCNV-08-120 |
| | 2-3/16 | 20 | NM-FCCNP-08-240 | NM-FCCNV-08-240 |

Fittings

Horizontal



HB
Horizontal Bend

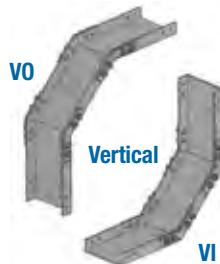
One pair of splice plates with SS6 hardware included.

For vinyl ester resin, use "V" instead of "P" in part number.

Example: FCCNV-04-90HB12

| Cat. No. | Angle | Width (in.) |
|--------------------|-----------|-------------|
| NM-FCCNP-03-90HB12 | 90 | 3 |
| NM-FCCNP-04-90HB12 | | 4 |
| NM-FCCNP-06-90HB12 | | 6 |
| NM-FCCNP-08-90HB12 | | 8 |
| NM-FCCNP-03-45HB12 | | 3 |
| NM-FCCNP-04-45HB12 | | 4 |
| NM-FCCNP-06-45HB12 | | 6 |
| NM-FCCNP-08-45HB12 | | 8 |

Vertical



VO
Vertical

One pair of splice plates with SS6 hardware included.

For vinyl ester resin, use "V" instead of "P" in part number.

Example: FCCNV-04-90VI12

| Cat. No. | Angle | Width (in.) |
|---------------------|-----------|-------------|
| NM-FCCNP-03-90VI12* | 90 | 3 |
| NM-FCCNP-04-90VI12* | | 4 |
| NM-FCCNP-06-90VI12* | | 6 |
| NM-FCCNP-08-90VI12* | | 8 |
| NM-FCCNP-03-45VI12* | | 3 |
| NM-FCCNP-04-45VI12* | | 4 |
| NM-FCCNP-06-45VI12* | | 6 |
| NM-FCCNP-08-45VI12* | | 8 |

* For vertical outside bends replace VI by VO

Horizontal Tees



HT

Two pairs of splice plates included.

For Vinyl ester resin, use "V" instead of "P" in part number.

Example: FCCNV-04-HT12

| Cat. No. | Width (in.) |
|------------------|-------------|
| NM-FCCNP-03-HT12 | 3 |
| NM-FCCNP-04-HT12 | 4 |
| NM-FCCNP-06-HT12 | 6 |
| NM-FCCNP-08-HT12 | 8 |

Horizontal Crosses



HX

Three pairs of splice plates included.

For vinyl ester resin, use "V" instead of "P" in part number.

Example: FCCNV-04-HX12

| Cat. No. | Width (in.) |
|------------------|-------------|
| NM-FCCNP-03-HX12 | 3 |
| NM-FCCNP-04-HX12 | 4 |
| NM-FCCNP-06-HX12 | 6 |
| NM-FCCNP-08-HX12 | 8 |

Covers available. Please contact your Regional Sales Office.

Splice Plates

Standard Splice Plates



Supplied in pairs

| Cat. No. | Material |
|-----------------|-------------------|
| NM-XSS-1001-SS6 | Stainless steel |
| NM-XFP-1001-SS6 | Polyester resin |
| NM-XFV-1001-SS6 | Vinyl ester resin |

Expansion Splice Plates



Supplied in pairs

| Cat. No. | Material |
|-----------------|-------------------|
| NM-XSS-1011-SS6 | Stainless steel |
| NM-XFP-1011-SS6 | Polyester resin |
| NM-XFV-1011-SS6 | Vinyl ester resin |

Horizontal 90° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1901H-SS6 | Stainless steel |
| NM-XFP-1901H-SS6 | Polyester resin |
| NM-XFV-1901H-SS6 | Vinyl ester resin |

Horizontal 30° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1301H-SS6 | Stainless steel |
| NM-XFP-1301H-SS6 | Polyester resin |
| NM-XFV-1301H-SS6 | Vinyl ester resin |

Vertical 45° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1451V-SS6 | Stainless steel |
| NM-XFP-1451V-SS6 | Polyester resin |
| NM-XFV-1451V-SS6 | Vinyl ester resin |

Supplied with standard hardware is 1/4 in. Stainless Steel 316.

Horizontal 45° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1451H-SS6 | Stainless Steel |
| NM-XFP-1451H-SS6 | Polyester resin |
| NM-XFV-1451H-SS6 | Vinyl ester resin |

Vertical 90° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1901V-SS6 | Stainless steel |
| NM-XFP-1901V-SS6 | Polyester resin |
| NM-XFV-1901V-SS6 | Vinyl ester resin |

Vertical 30° Splice Plates



Supplied in pairs

| Cat. No. | Material |
|------------------|-------------------|
| NM-XSS-1301V-SS6 | Stainless steel |
| NM-XFP-1301V-SS6 | Polyester resin |
| NM-XFV-1301V-SS6 | Vinyl ester resin |

Channels

Thomas & Betts is proud of its line of nonmetallic strut and accessoires. You'll find a complete selection of nonmetallic accessoires, fasteners, hangers, pipe clamps and channels.

Most Thomas & Betts Strut products are available in a choice of resins – either vinyl ester or polyester. Our design and engineering staff is ready to help you select the material that best suits your needs.



Straight section catalogue selector

| NM | -SS | P- | 100 | () | () | - 120 |
|--------------|-------------------|----------------------------------|--------------------------------|------------------------------|--------------------------------------|------------------------------|
| STRUT SYSTEM | TYPE OF SYSTEM | Material | Size | Double | HOLES/SLOTS/INSERT | Length |
| Nonmetallic | SS = STRUT SYSTEM | P = Polyester V = Vinyl ester | 100 = 1 in. 158 = 1-5/8 in. | D = double Blank = single | H = holes S = slots I = insert | 120 = 10 ft. 240 = 20 ft. |

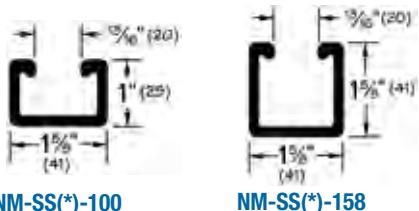
Example: NM-SSP-100-120, 1 in. single strut, 120 in. (10 ft.)

Note: Stocked in 120 in. (10 ft.) and 240 po (20 ft.)

Channels

Combinations and Hole Pattern

Solid – Single Strut



*Add P - for polyester or V - for vinyl ester

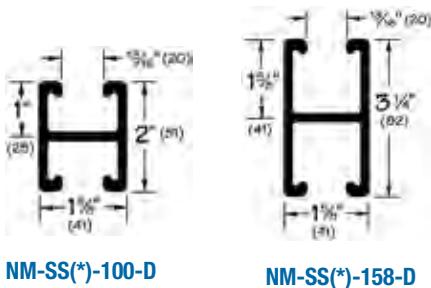
| Cat. No. | Material/ Resin | Colour | Weight | |
|----------------|-----------------|--------|-----------|--------|
| | | | lb. / ft. | kg / m |
| NM-SSP-100-(L) | Polyester | Grey | 0.47 | 0.70 |
| NM-SSP-158-(L) | | | 0.63 | 0.94 |
| NM-SSV-100-(L) | Vinyl ester | Beige | 0.47 | 0.70 |
| NM-SSV-158-(L) | | | 0.63 | 0.94 |

(L) Add desired length 120 (10 ft.) or 240 (20 ft.)

Cut-to-length channel also available.

Contact your Regional Sales Office for more information.

Solid – Back to Back



*Add P - for polyester or V - for vinyl ester

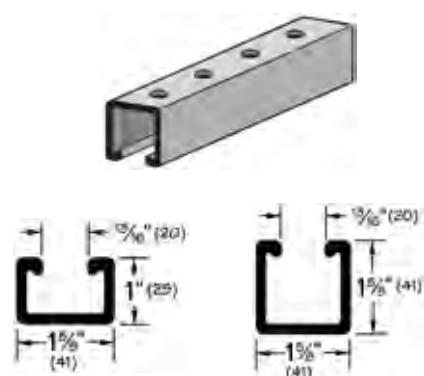
| Cat. No. | Material/ Resin | Colour | Weight | |
|------------------|-----------------|--------|-----------|--------|
| | | | lb. / ft. | kg / m |
| NM-SSP-100-D-(L) | Polyester | Grey | 0.86 | 1.28 |
| NM-SSP-158-D-(L) | | | 1.17 | 1.75 |
| NM-SSV-100-D-(L) | Vinyl ester | Beige | 0.86 | 1.28 |
| NM-SSV-158-D-(L) | | | 1.17 | 1.75 |

(L) Add desired length 120 (10 ft.) or 240 (20 ft.)

Cut-to-length channel also available.

Contact your Regional Sales Office for more information.

Punched



| Cat. No. | Material/ Resin | Colour | Weight | |
|------------------|-----------------|--------|-----------|--------|
| | | | lb. / ft. | kg / m |
| NM-SSP-100-H-(L) | Polyester | Grey | 0.45 | 0.67 |
| NM-SSP-158-H-(L) | | | 0.61 | 0.91 |
| NM-SSV-100-H-(L) | Vinyl ester | Beige | 0.45 | 0.67 |
| NM-SSV-158-H-(L) | | | 0.61 | 0.91 |

(L) Add desired length 120 (10 ft.) or 240 (20 ft.)

Cut-to-length channel also available.

Contact your Regional Sales Office for more information.

Channels

Combinations and Hole Pattern

Slotted



Slots - 9/16 in. X 7/8 in. on 2 in. centers

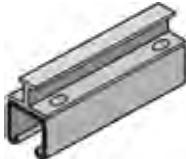
| Cat. No. | Material/ Resin | Colour | Weight | |
|------------------|-----------------|--------|-----------|--------|
| | | | lb. / ft. | kg / m |
| NM-SSP-100-S-(L) | Polyester | Grey | 0.46 | 0.69 |
| NM-SSP-158-S-(L) | | | 0.62 | 0.93 |
| NM-SSV-100-S-(L) | Vinyl ester | Beige | 0.46 | 0.69 |
| NM-SSV-158-S-(L) | | | 0.62 | 0.93 |

(L) Add desired length 120 (10 ft.) or 240 (20 ft.)

Cut-to-length channel also available.

Contact your Regional Sales Office for more information.

Concrete Insert



| Cat. No. | Material/ Resin | Colour | Weight | |
|------------------|-----------------|--------|-----------|--------|
| | | | lb. / ft. | kg / m |
| NM-SSP-158-I-(L) | Polyester | Grey | 1.04 | 1.55 |
| NM-SSV-158-I-(L) | Vinyl ester | Beige | 1.04 | 1.55 |

(L) Add desired length 120 (10 ft.) or 240 (20 ft.)

Cut-to-length channel also available.

Contact your Regional Sales Office for more information.

Fittings and Brackets

Nonmetallic Strut Fittings and Brackets

Superstrut® Fittings and Brackets

| | | | |
|-------------|-------------|-------------|-------------|
| NM-SFP-1S7 | NM-SFP-1S9 | NM-SFP-2S | NM-SFP-3S |
| | | | |
| NM-SFP-4S | NM-SFP-5S | NM-SFP-3HL | NM-SFP-4HL |
| | | | |
| NM-SFP-4HT | NM-SFP-5HX | NM-SFP-3HCG | NM-SFP-4HCG |
| | | | |
| NM-SFP-5HCG | NM-SFP-3HTG | NM-SFP-4HTG | NM-SFP-5HTG |
| | | | |

All fittings are 1-5/8 in. (41 mm) wide and 1/4 in. (6 mm) thick unless specified otherwise. All holes are 13/32 in. (10 mm) diameter unless specified otherwise. Not supplied with hardware.

Fittings and Brackets

Nonmetallic Strut Fittings and Brackets

Superstrut® Fittings and Brackets

| | | | |
|-------------|--------------------------------------|--------------|--------------|
| NM-SFP-6HTG | NM-SFP-7HXG | NM-SFP-3VL | NM-SFP-4VL |
| | | | |
| NM-SFP-4VLD | NM-SFP-4VGL | NM-SFP-4VGR | NM-SFP-4VTG |
| | | | |
| NM-SFP-3CB | NM-SWC-158 | NM-SSV-DBASE | NM-SSV-SBASE |
| | | | |
| NM-SCSP-158 | <p>Channel Spacer (for 3/8" rod)</p> | | |

All fittings are 1-5/8 in. (41 mm) wide and 1/4 in. (6 mm) thick unless specified otherwise. All holes are 13/32 in. (10 mm) diameter unless specified otherwise. Hardware not included.

Hardware

Nonmetallic Threaded Hardware

Hex Head Bolt



| Cat. No. | Thread Size | Bolt Length (in.) | Design Load | | Max Torque | | Weight / C | |
|------------|---------------|-------------------|-------------|------|------------|------|------------|------|
| | | | lb. | N | in.-lb. | N-m | lb. | g |
| NM-F516100 | 5/16 in. - 18 | 5/16 x 1 | 190 | 845 | 30 | 3.4 | 0.4 | 181 |
| NM-F516114 | 5/16 in. - 18 | 5/16 x 1-1/4 | 190 | 845 | 30 | 3.4 | 0.4 | 181 |
| NM-F38100 | 3/8 in. - 16 | 3/8 x 1 | 300 | 1334 | 45 | 5.1 | 0.9 | 408 |
| NM-F38114 | 3/8 in. - 16 | 3/8 x 1-1/4 | 300 | 1334 | 45 | 5.1 | 1.1 | 499 |
| NM-F38212 | 3/8 in. - 16 | 3/8 x 2-1/2 | 300 | 1334 | 45 | 5.1 | 1.5 | 680 |
| NM-F12100 | 1/2 in. - 13 | 1/2 x 1 | 490 | 2180 | 110 | 12.4 | 1.4 | 635 |
| NM-F12114 | 1/2 in. - 13 | 1/2 x 1-1/4 | 490 | 2180 | 110 | 12.4 | 1.8 | 816 |
| NM-F12212 | 1/2 in. - 13 | 1/2 x 2-1/2 | 490 | 2180 | 110 | 12.4 | 3.7 | 1678 |

Safety factor of 3 on design load.

All-Thread Rod



| Cat. No. | Thread Size | Height | | Weight / C | |
|----------|--------------|--------|----|------------|-----|
| | | in. | mm | lb. | g |
| NM-F38AT | 3/8 in. - 16 | 21/64 | 8 | 0.3 | 136 |
| NM-F12AT | 1/2 in. - 13 | 7/16 | 11 | 0.7 | 318 |
| NM-F58AT | 5/8 in. - 11 | 35/64 | 14 | 1.4 | 635 |

Note: 3/4 in. and 1 in. sizes are available.

Hex Nut



| Cat. No. | Thread Size | Design Load | | Max Torque | | Weight / C | |
|----------|--------------|-------------|------|------------|------|------------|----|
| | | lb. | N | in.-lb. | N-m | lb. | g |
| NM-F38HN | 3/8 in. - 16 | 425 | 1890 | 45 | 5.1 | 0.08 | 36 |
| NM-F12HN | 1/2 in. - 13 | 750 | 3336 | 110 | 12.4 | 0.13 | 59 |
| NM-F58HN | 5/8 in. - 11 | 950 | 4226 | 230 | 26.0 | 0.21 | 95 |

Safety factor of 3 on design load. Note: 3/4 in. and 1 in. sizes are available.

Standard lengths are 4 ft. and 8 ft. Example: NM-F38AT-4.

All-Thread Rod Hex Nut



| Cat. No. | Thread Size | Height | | Weight / C | |
|------------|--------------|--------|----|------------|-----|
| | | in. | mm | lb. | g |
| NM-F38ATHN | 3/8 in. - 16 | 3/4 | 19 | 0.8 | 376 |
| NM-F12ATHN | 1/2 in. - 13 | 7/8 | 22 | 1.7 | 771 |

Rod Coupler



| Cat. No. | Thread Size | Weight / C | |
|----------|--------------|------------|------|
| | | lb. | g |
| NM-FRC38 | 3/8 in. - 16 | 7.4 | 3357 |
| NM-FRC12 | 1/2 in. - 13 | 11.3 | 5118 |
| NM-FRC58 | 5/8 in. - 11 | 16.7 | 7575 |

3/4 in. and 1 in. sizes are available.

Brackets, Hangers and Clamps

Nonmetallic Pipe Hangers, Brackets and Beam Clamps

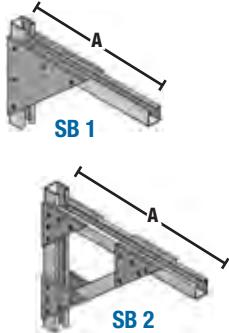
Clevis Hangers



| Cat. No. | Nominal Pipe Size | | Maximum O.D. Range | | Hanger Rod Size | Design Load | |
|-------------------|-------------------|------|--------------------|-----|-----------------|-------------|------|
| | (in.) | (mm) | (in.) | mm | | lb. | N-m |
| NM-SCH200 | 2 | 50 | 2-1/2 | 63 | 1/2 in. - 13 | 90 | 0.40 |
| NM-SCH212 | 2-1/2 | 65 | 3-1/4 | 82 | 1/2 in. - 13 | 120 | 0.54 |
| NM-SCH300 | 3 | 80 | 3-7/8 | 98 | 1/2 in. - 13 | 160 | 0.71 |
| NM-SCH400 | 4 | 100 | 5 | 127 | 5/8 in. - 11 | 250 | 1.12 |
| NM-SCH600 | 6 | 150 | 7 | 177 | 5/8 in. - 11 | 400 | 1.79 |
| NM-SCH800 | 8 | 200 | 9 | 228 | 5/8 in. - 11 | 450 | 2.01 |
| NM-SCH1000 | 10 | 250 | 11-3/8 | 289 | 5/8 in. - 11 | 500 | 2.24 |
| NM-SCH1200 | 12 | 300 | 13-1/2 | 342 | 5/8 in. - 11 | 600 | 2.69 |

Safety Factor of 3 on design loads at 120°F (49°C). Insulation may be required at high temperatures. Order hanger rods and nuts separately.

Support Brackets



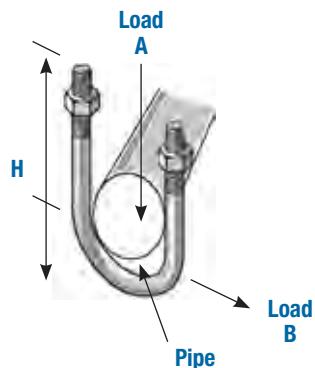
| Cat. No.* | Dimension "A" | | Design Load | |
|-------------------|---------------|------|-------------|------|
| | (in.) | (mm) | lb. | N |
| NM-SB1-06P | 10 | 250 | 1400 | 6.22 |
| NM-SB1-09P | 13 | 330 | 1000 | 4.45 |
| NM-SB1-12P | 16 | 406 | 800 | 3.56 |
| NM-SB1-18P | 22 | 559 | 675 | 3.00 |
| NM-SB1-24P | 28 | 711 | 450 | 2.00 |
| NM-SB2-24P | 28 | 711 | 750 | 3.33 |
| NM-SB2-30P | 34 | 863 | 750 | 3.33 |
| NM-SB2-36P | 40 | 1016 | 750 | 3.33 |

*Substitute "V" for "P" when vinyl ester resin is needed.
Design loads based on uniform loading with a safety factor of 3.

Brackets, Hangers and Clamps

Nonmetallic Threaded Hardware and Sealant

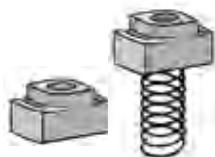
U-Bolt



| Cat. No. | Nominal Pipe Size | | H Height (in.) | Design Load A | | Design Load B | | Max. Torque | | Weight / C | |
|-----------|-------------------|------|----------------|---------------|------|---------------|-----|-------------|-----|------------|------|
| | (in.) | (mm) | | lb. | N | lb. | N | in.-lb. | N-m | lb. | g |
| NM-FUB050 | 1/2 | 15 | 2.41 | 300 | 1334 | 150 | 667 | 30 | 3.4 | 3.5 | 1588 |
| NM-FUB075 | 3/4 | 20 | 2.60 | 300 | 1334 | 150 | 667 | 30 | 3.4 | 3.9 | 1769 |
| NM-FUB100 | 1 | 25 | 2.85 | 300 | 1334 | 150 | 667 | 30 | 3.4 | 4.4 | 1996 |
| NM-FUB114 | 1-1/4 | 32 | 3.16 | 300 | 1334 | 150 | 667 | 30 | 3.4 | 4.8 | 2177 |
| NM-FUB112 | 1-1/2 | 40 | 3.47 | 300 | 1334 | 150 | 667 | 30 | 3.4 | 5.2 | 2359 |
| NM-FUB200 | 2 | 50 | 4.18 | 600 | 2669 | 200 | 890 | 60 | 6.8 | 7.7 | 3493 |
| NM-FUB212 | 2-1/2 | 65 | 4.68 | 600 | 2669 | 200 | 890 | 60 | 6.8 | 10.2 | 4627 |
| NM-FUB300 | 3 | 80 | 5.31 | 600 | 2669 | 200 | 890 | 60 | 6.8 | 12.6 | 5715 |
| NM-FUB312 | 3-1/2 | 90 | 5.81 | 600 | 2669 | 200 | 890 | 60 | 6.8 | 15.1 | 6849 |
| NM-FUB400 | 4 | 100 | 6.31 | 600 | 2669 | 200 | 890 | 60 | 6.8 | 17.6 | 7983 |

Safety factor of 3 on design load.

Channel Nut



| Cat. No. | Cat. No. | Thread Size | Pull-Out | | Slip Resistance | | Max Torque | | Weight / C | |
|----------|----------|-------------|----------|------|-----------------|-----|------------|------|------------|------|
| | | | lb. | N | lb. | N | in.-lb. | N-m | lb. | g |
| NM-FCN38 | FCN38W0 | 3/8 - 16 | 300 | 1334 | 150 | 667 | 200 | 22.6 | 2.3 | 1043 |
| NM-FCN12 | FCN12W0 | 1/2 - 13 | 300 | 1334 | 150 | 667 | 200 | 22.6 | 2.3 | 1043 |

Safety factor of 3 on design load. Note: 1/4 in. and 5/16 in. sizes are available.

Flat Washer



| Cat. No. | Hole Size (in.) | Weight / C | |
|----------|-----------------|------------|-----|
| | | lb. | g |
| NM-F38W | 3/8 | 0.5 | 227 |
| NM-F12W | 1/2 | 0.5 | 227 |
| NM-F58W | 5/8 | 0.5 | 227 |
| NM-F34W | 3/4 | 0.5 | 227 |
| NM-F100W | 1 | 0.5 | 227 |

Brush-On Resin Seal Kit



| Cat. No. | Material |
|-----------|----------|
| NM-RSK-QT | 946 ml |

To reseal fiberglass after field modifications.
Vinyl ester resin

Kit Contents

- Resin
- Catalyst
- Stir stick and applicator

Spray Sealant



| Cat. No. | Material |
|---------------|----------------|
| NM-CLEAR-1215 | 12 fl. oz. can |

Should be used for top coating polyester applications only.
Not recommended to seal vinyl ester.

Spray acrylic to reseal fiberglass
after field modifications.

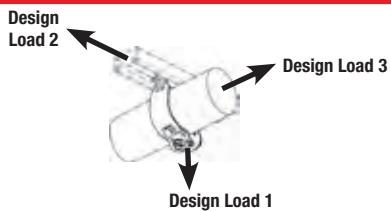
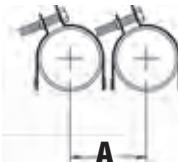
Brackets, Hangers and Clamps

Pipe Clamps

Quik Clamp II™



Design Load 1 has a safety factor of 4.
Design Loads 2 and 3 have
a safety factor of 1.



| Cat. No. | Dimension A EMT in. (mm) | Dimension A Rigid Conduit in. (mm) | Quantity per Box | Wt./C lb. |
|----------------|--------------------------------|--|---------------------|--------------|
| TBQC050 | 1-5/16 (33.5) | 1-1/4 (31.5) | 100 | 10 |
| TBQC075 | 1-3/4 (44.5) | 1-11/16 (43) | 100 | 12 |
| TBQC100 | 1-13/16 (46) | 1-3/4 (44.5) | 100 | 13 |
| TBQC125 | 2-1/8 (54) | 2 (51) | 50 | 15 |
| TBQC150 | 2-3/8 (60.5) | 2-3/16 (55.5) | 50 | 16 |
| TBQC200 | 2-5/8 (66.5) | 2-1/2 (63.5) | 50 | 19 |
| TBQC250 | 3-1/16 (78) | 3-1/16 (78) | 25 | 29 |
| TBQC300 | 3-11/16 (93.5) | 3-11/16 (93.5) | 25 | 34 |
| TBQC350 | 4-3/16 (106.5) | 4-3/16 (106.5) | 25 | 38 |
| TBQC400 | 4-11/16 (119) | 4-11/16 (119) | 25 | 42 |

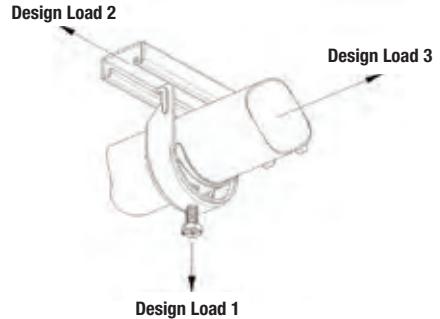
| Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|--|------------------------------|------------------------------|
| 200 (90) | | |
| 200 (90) | | |
| 200 (90) | | |
| 200 (90) | | |
| 200 (90) | 50 (23) | |
| 200 (90) | | 50 (23) |
| 350 (158) | | |
| 350 (158) | | |
| 350 (158) | | |
| 350 (158) | | |

Cobra®



Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalogue no. (i.e.: CPC050SS6). Stainless steel bolt head is hexagonal and slotted only.

Now available in aluminum ; add the suffix
"AL" to catalogue no. (i.e.: CPC050AL).



| Cat. No. | EMT Trade Size (in.) | Rigid Cond. Trade Size (in.) | Cable O.D. Range (in.) | Static Load Limit (lb.) Safety Factor = 4 | Qty. per Box | Wt./C lb. | Torque Value (ft.-lb.) | 35 |
|---------------|----------------------------|------------------------------------|------------------------------|---|-----------------|--------------|------------------------------|----|
| CPC025 | 1/4 | 1/4 | 0.312 - 0.600 | 200 | 100 | 8 | | |
| CPC050 | 1/2 | 1/2 | 0.500 - 0.890 | 200 | 100 | 10 | | |
| CPC075 | 3/4 | 3/4 | 0.860 - 1.110 | 200 | 100 | 12 | | |
| CPC100 | 1 | 1 | 1.100 - 1.400 | 200 | 100 | 14 | | |
| CPC125 | 1 1/4 | 1 1/4 | 1.400 - 1.725 | 200 | 50 | 16 | | |
| CPC150 | 1 1/2 | 1 1/2 | 1.690 - 1.980 | 200 | 50 | 18 | | |
| CPC200 | 2 | 2 | 1.980 - 2.576 | 200 | 50 | 24 | | |
| CPC250 | 2 1/2 | 2 1/2 | 2.576 - 3.060 | 350 | 25 | 36 | | |
| CPC300 | 3 | 3 | 3.060 - 3.626 | 350 | 25 | 42 | | |
| CPC350 | 3 1/2 | 3 1/2 | 3.626 - 4.126 | 350 | 25 | 46 | | |
| CPC400 | 4 | 4 | 4.126 - 4.626 | 350 | 25 | 50 | | |

| Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|--|------------------------------|------------------------------|
| 200 (91) | | |
| 200 (91) | | |
| 200 (91) | | |
| 200 (91) | | |
| 200 (91) | 50 (23) | |
| 200 (91) | | 50 (23) |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |

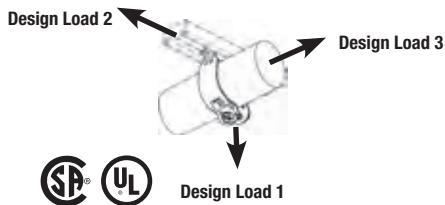
Brackets, Hangers and Clamps

Pipe Clamps

Loc-King Cobra™



| Cat. No. | EMT Trade Size (in.) | Rigid Cond. Trade Size (in.) | Cable O.D. Range (in.) | Static Load Limit (lb.) Safety Factor = 4 | Qty. per Box | Wt./C lb. | Torque Value (ft.-lb.) | 35 |
|----------|----------------------|------------------------------|------------------------|---|--------------|-----------|------------------------|----|
| LKCP050 | 1/2 | 1/2 | 0.650 - 0.890 | 100 | 15 | 10 | | |
| LKCP075 | 3/4 | 3/4 | 0.860 - 1.110 | 100 | 16 | 12 | | |
| LKCP100 | 1 | 1 | 1.100 - 1.400 | 50 | 19 | 14 | | |
| LKCP125 | 1 1/4 | 1 1/4 | 1.400 - 1.725 | 50 | 23 | 16 | | |
| LKCP150 | 1 1/2 | 1 1/2 | 1.690 - 1.980 | 50 | 27 | 18 | | |
| LKCP200 | 2 | 2 | 1.980 - 2.576 | 50 | 38 | 24 | | |
| LKCP250 | 2 1/2 | 2 1/2 | 2.576 - 3.060 | 25 | 44 | 36 | | |
| LKCP300 | 3 | 3 | 3.060 - 3.626 | 25 | 53 | 42 | | |
| LKCP350 | 3 1/2 | 3 1/2 | 3.626 - 4.126 | 25 | 58 | 46 | | |
| LKCP400 | 4 | 4 | 4.126 - 4.626 | 25 | 66 | 50 | | |



Design Load 1



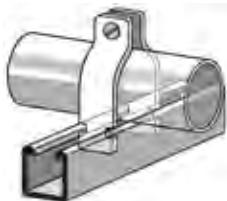
Design Load 3



Design Load 2

| Design Load 1 Static Load Limit lb. (kg) | Design Load 2 lb. (kg) | Design Load 3 lb. (kg) |
|--|------------------------|------------------------|
| 350 (159) | 50 (23) | 50 (23) |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 350 (159) | | |
| 450 (204) | | |
| 450 (204) | | |
| 450 (204) | | |

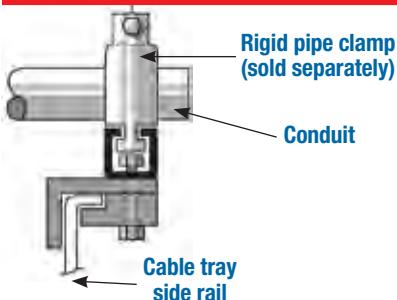
Rigid Pipe Clamp



| Cat. No. | Nominal Pipe Size | | Design Load | | Max. Torque | |
|------------|-------------------|------|-------------|------|-------------|------|
| | (in.) | (mm) | lb. | N | in.-lb. | N-m |
| NM-SRPC050 | 1/2 | 15 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC075 | 3/4 | 20 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC100 | 1 | 25 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC114 | 1-1/4 | 32 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC112 | 1-1/2 | 40 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC200 | 2 | 50 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC212 | 2-1/2 | 65 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC300 | 3 | 80 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC312 | 3-1/2 | 90 | 300 | 1.33 | 10 | 1.13 |
| NM-SRPC400 | 4 | 100 | 300 | 1.33 | 10 | 1.13 |

Safety factor of 3 on design load.

Conduit Swivel Clamp



Cat. No.

NM-SCSC-(CTD)

Cable tray designation (CTD) required (Ex. 6CP series designates 6 in. deep polyester resin). Pipe clamps are a separate order item.

Strut Loading Chart

Nonmetallic Strut Load Charts

Loading Information

Beam Loads: The charts below list the total allowable uniform load for various simple spans based on a minimum safety factor of 2. If the load is concentrated at center span, multiply the load by 0.5 and the corresponding deflection by 0.8.

Beam Loading Data for Glass Reinforced Polyester Resin

| Beam Span in. (mm) | Cat. No. | Maximum Allowable Beam Load | | Deflection at Maximum Allowable Beam Load | | Allowable Load @ Deflection = | | | |
|-----------------------|--------------|--------------------------------|-------|--|-------|-------------------------------|-------|------|-------|
| | | lb. | N | in. | mm | lb. | N | lb. | N |
| 12 (305) | NM-SSP-100 | 793 | 3527 | 0.106 | 2.69 | 373 | 1659 | 249 | 1107 |
| | NM-SSP-100-D | 2301 | 10235 | 0.060 | 1.52 | 1928 | 8576 | 1285 | 5715 |
| | NM-SSP-158 | 1783 | 7931 | 0.067 | 1.70 | 1327 | 5902 | 885 | 3936 |
| | NM-SSP-158-D | 5172 | 23005 | 0.037 | .94 | 5172 | 23005 | 4696 | 20888 |
| 14 (609) | NM-SSPP-100 | 397 | 1766 | 0.425 | 10.79 | 93 | 413 | 62 | 276 |
| | NM-SSP-100-D | 1150 | 5115 | 0.239 | 6.07 | 482 | 2144 | 321 | 1428 |
| | NM-SSP-158 | 891 | 3963 | 0.269 | 6.83 | 332 | 1477 | 221 | 983 |
| | NM-SSP-158-D | 2586 | 11502 | 0.147 | 3.73 | 1761 | 7833 | 1174 | 5222 |
| 36 (914) | NM-SSP-100 | 264 | 1174 | 0.957 | 24.31 | 41 | 182 | 28 | 124 |
| | NM-SSP-100-D | 767 | 3411 | 0.537 | 13.64 | 214 | 952 | 143 | 636 |
| | NM-SSP-158 | 594 | 2642 | 0.604 | 15.34 | 147 | 654 | 98 | 436 |
| | NM-SSP-158-D | 1724 | 7668 | 0.330 | 8.38 | 783 | 3483 | 522 | 2322 |

Beam Loading Data for Glass Reinforced Vinyl Ester Resin

| Beam Span in. (mm) | Cat. No. | Maximum Allowable Beam Load | | Deflection at Maximum Allowable Beam Load | | Allowable Load @ Deflection | | | |
|-----------------------|--------------|--------------------------------|-------|--|-------|-----------------------------|-------|------|-------|
| | | lb. | N | in. | mm | lb. | N | lb. | N |
| 12 (305) | NM-SSV-100 | 988 | 4394 | 0.112 | 2.84 | 441 | 1961 | 294 | 1308 |
| | NM-SSV-100-D | 2866 | 12748 | 0.063 | 1.60 | 2279 | 10137 | 1519 | 6756 |
| | NM-SSV-158 | 2221 | 9879 | 0.071 | 1.80 | 1569 | 6979 | 1046 | 4652 |
| | NM-SSV-158-D | 6443 | 28658 | 0.039 | .99 | 6443 | 28658 | 5550 | 24686 |
| 14 (609) | NM-SSV-100 | 494 | 2197 | 0.448 | 11.38 | 110 | 489 | 73 | 325 |
| | NM-SSV-100-D | 1433 | 6374 | 0.252 | 6.40 | 570 | 2535 | 380 | 1690 |
| | NM-SSV-158 | 1110 | 4937 | 0.283 | 7.19 | 392 | 1743 | 261 | 1161 |
| | NM-SSV-158-D | 3221 | 14327 | 0.155 | 3.94 | 2081 | 9256 | 1387 | 6169 |
| 36 (914) | NM-SSV-100 | 329 | 1463 | 1.009 | 25.63 | 49 | 218 | 33 | 147 |
| | NM-SSV-100-D | 955 | 4248 | 0.566 | 14.37 | 253 | 1125 | 169 | 752 |
| | NM-SSV-158 | 740 | 3291 | 0.637 | 16.18 | 174 | 774 | 116 | 516 |
| | NM-SSV-158-D | 2148 | 9554 | 0.348 | 8.84 | 925 | 4114 | 617 | 2744 |

Note: Dimensions shown as metric are in millimetres, unless otherwise specified.

Recommended Guideline

Published design loads are based on usage at 70°F (21°C) and must be reduced for continuous exposure to higher temperatures. Refer to the chart at right for high temperature applications.

| Temperature | Design Load Multiplier |
|--------------|------------------------|
| 75°F (24°C) | 100% |
| 100°F (38°C) | 90% |
| 125°F (52°C) | 78% |
| 150°F (66°C) | 68% |
| 175°F (79°C) | 60% |
| 200°F (93°C) | 52% |

