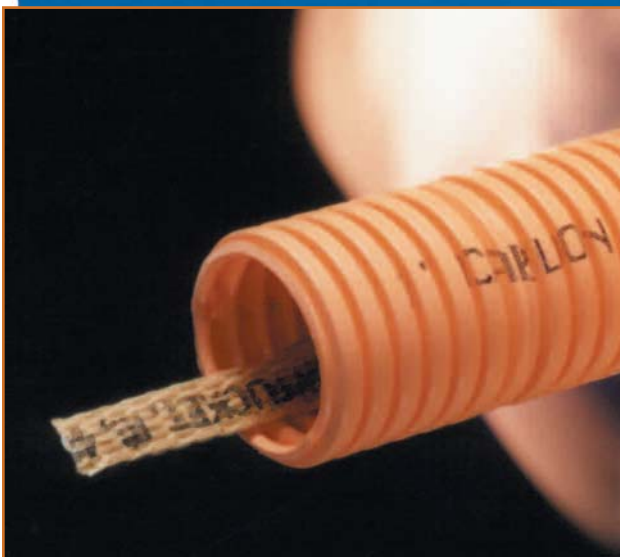


Flexible Raceway Systems

- Hal-Free Riser-Gard®55
- Micro-Gard™56–57
- Plenum-Gard™48–49
- Resi-Gard™50–54



Product Overview

Plenum-Gard™ is a non-metallic corrugated flexible conduit for use in Plenum, Riser and General Purpose applications.

Plenum-Gard™ is manufactured from PVDF resin, which is extremely durable and resistant to abrasion and mechanical damage before/after installation.

Plenum-Gard™ is listed for Plenum, Riser, General Purpose and other cabling optical fiber/telecommunication applications.

Important: Installed cables must be plenum rated.

Technical Information:

UL Standard 2024	Value
Maximum Flame Propagation	5 ft
Max. Peak Optical Smoke Density	0.5
Max. Average Optical Smoke Density	0.15

- Storage: -20°C to 70°C (-4°F to 158°F).
- Handling: -20°C to 40°C (-4°F to 104°F).
- No UV protection (not suitable for outdoor use).
- Do NOT store outside.



Applications: Plenum, Riser and General Purpose.



Standard Stock - Reels

Size (in.)	Cat. No.	Color	Pull Tape	Reel Size (F x W) (in.)	Reel Type	Length (ft)	Reel Wt. (lb)	Product Wt. per 100 ft (lb)
1/2	CD4X1C-1500	Orange	200 lb	34 x 23	Wood	1500	30	7
3/4	CE4X1-1000	Orange	Empty	34 x 23	Wood	1000	30	8
	CE4X1-1000S		Empty	34 x 23	Wood	1000	30	8
1	CF4X1C-500	Orange	900 lb	34 x 23	Wood	500	30	10
	CF4X1C-1000		900 lb	48 x 28	Wood	1000	79	10
	CF4X1C-1500		900 lb	48 x 28	Wood	1500	79	10
	CF4X1C-5200		900 lb	66 x 41	Wood	5200	250	10
	CF4X1C-6500		900 lb	72 x 41	Wood	6500	310	10
	CF4X1C-8000		900 lb	82 x 41	Wood	8000	365	10
	CG4X1C-500		900 lb	48 x 28	Wood	500	79	14
1-1/4	CG4X1C-900	Orange	900 lb	48 x 28	Wood	900	96	14
	CG4X1C-1600		900 lb	48 x 45	Wood	1600	96	14
	CG4X1C-3200		900 lb	48 x 45	Wood	3200	250	14
	CG4X1C-6500		900 lb	96 x 41	Wood	6500	700	14
	CG4X1C-900S		Empty	48 x 28	Wood	900	79	14
	CH4X1C-350		900 lb	48 x 28	Wood	350	79	16
	CH4X1C-1200		900 lb	48 x 45	Wood	1200	96	16
1-1/2	CH4X1C-4000	Orange	900 lb	82 x 41	Wood	4000	365	16
	CJ4X1C-225		900 lb	48 x 28	Wood	225	79	21
	CJ4X1C-700		900 lb	48 x 45	Wood	700	96	21
2	CJ4X1C-2000	Orange	900 lb	82 x 41	Wood	2000	365	21
	CJ4X1C-2800		900 lb	82 x 41	Wood	2800	365	21
3	CL4X1C-150	Orange	900 lb	48 x 45	Wood	150	96	41

Features

- Sizes 1/2" through 3"
- Pre-installed pull tape available in sizes 1/2" through 3"
- Outside Diameters meet IPS Dimensions
- Footage sequentially marked

Standard Stock – Coils

Size (in.)	Color	Cat. No.	Pull Tape	Coil Length (ft)	Product Wt. per 100 ft (lb)
1/2	Orange	CD4X1C-500	900 lb	500	7
3/4	Orange	CE4X1-350	Empty	350	8
	Orange	CE4X1-350S	Empty/Split	350	8
1	Orange	CF4X1C-100	900 lb	100	10
	Orange	CF4X1-100S	Empty/Split	100	10
	Orange	CF4X1C-250	900 lb	250	10
	Orange	CF4X1-250	Empty	250	10
	Orange	CF4X1-250S	Empty/Split	250	10
	Orange	CG4X1C-200	900 lb	200	14
1-1/4	Orange	CG4X1-200S	Empty/Split	200	14
	Orange	CH4X1C-150	900 lb	150	16
1-1/2	Orange	CH4X1-150S	Empty/Split	150	16
	Orange	CJ4X1C-100	900 lb	100	21
2	Orange	CJ4X1-100S	Empty/Split	100	21
	Orange	CL4X1C-150	920 lb	150	24

Specifications

Size (in.)	I.D. Min. Ref. (in.)	Min. O.D. (in.)	Max. O.D. (in.)	Min. Bend Radius (in.)
1/2	0.60	0.815	0.835	2
3/4	0.74	1.025	1.045	2
1	1.00	1.292	1.312	3
1-1/4	1.35	1.630	1.650	3
1-1/2	1.50	1.868	1.888	4
2	2.00	2.329	2.439	4
3	3.00	3.422	3.452	4

Custom Orders

How to Build a Catalogue Number:						
Position 1 Product	Position 2 Size (in.)	Position 3 Type	Position 4 Wall	Position 5 Color	Position 6 Pull Line	Position 7 Length
C = Plenum-Gard	D = 1/2 E = 3/4 F = 1 G = 1-1/4 H = 1-1/2 J = 2 L = 3	4 = Corrugated	X = Standard	1 = Orange 2 = Black 3 = Gray 4 = White 5 = Blue 7 = Yellow 8 = Red	C = 900 lb Tape	Example -1000 = Feet -1000S = 1000 Feet Split

• Custom Orders are not returnable

• Custom lengths are available in minimum order quantities of 1,000 ft

• Custom color runs are available in minimum order quantities of 10,000 ft

Options:

• Color: Black, Blue, Gray, Red, White and Yellow

• Two, three or four way parallel

• Split Duct

• Custom print line



Applications: Riser and General Purpose.

Technical Information

UL Standard 2024	Maximum Value
Maximum Flame Propagation	6.0 ft
Maximum Air Temperature at 12 ft	189°C (372°F)

- Storage: -20°C to 70°C (-4°F to 158°F).
- No UV protection (not suitable for outdoor use).
- Handling: -20°C to 40°C (-4°F to 104°F).
- Do NOT store outside.

Product Overview

Riser-Gard™ is a non-metallic flexible raceway for use in Riser and General Purpose applications. Riser-Gard™ is available with tape pre-installed.

Riser-Gard™ is listed for Riser applications or optical fiber/telecommunication raceways.

Riser-Gard™ is listed for Riser, General Purpose and other cabling optical fiber/telecommunication applications. Riser-Gard™ is suitable for use in vertical runs in shaft or between floors, as well as areas other than the plenum.

Important: Installed cables must be of suitable rating for the application.

- For use in Riser and General Purpose areas.
- Riser-Gard™ is also suitable for direct burial.
- Not approved for exposed applications.
- Available in sizes 3/4" through 3".
- Pull tape can be factory pre-installed in 1" through 3".
- Outside diameters meet IPS dimensions.
- Footage sequentially marked.



Standard Stock - Reels

Size (in.)	Cat. No.	Color	Pull Tape	Reel Size (F x W) (in.)	Reel Type	Length (ft)	Reel Wt. (lb)	Product Wt. per 100 ft (lb)
3/4	DE4X1C-1000	Orange	Empty	34 x 23	Wood	1000	30	12
1	DF4X1C-500R	Orange	900 lb	43 x 23	Wood	500	56	15
	DF4X1C-1000		900 lb	48 x 28	Wood	1000	79	15
	DF4X1C-1500		900 lb	48 x 28	Wood	1500	79	15
	DF4X1C-2700		900 lb	48 x 45	Wood	2700	96	15
	DF4X1C-5200		900 lb	66 x 41	Wood	5200	250	15
	DF4X1C-6500		900 lb	72 x 41	Wood	6500	310	15
	DF4X1C-7000		900 lb	72 x 45	Steel	7000	148	15
	DF4X1C-9400		900 lb	84 x 45	Steel	9400	199	15
1-1/4	DG4X1C-900	Orange	900 lb	48 x 28	Wood	900	79	17
	DG4X1C-500R		900 lb	48 x 23	Wood	500	56	17
	DG4X1C-1500		900 lb	48 x 45	Wood	1500	96	17
	DG4X1C-1600		900 lb	48 x 45	Wood	1600	96	17
	DG4X1C-3200		900 lb	66 x 41	Wood	3200	250	17
	DG4X1C-4500		900 lb	72 x 45	Steel	4500	148	17
	DG4X1C-5600		900 lb	82 x 41	Wood	5600	365	17
	DG4X1C-6500		900 lb	96 x 41	Steel	6500	700	17
1-1/2	DH4X1C-1200	Orange	900 lb	48 x 45	Wood	1200	96	22
	DH4X1C-4000		900 lb	82 x 45	Steel	400	193	22
	DH4X1C-4500		900 lb	84 x 45	Steel	4500	199	22
2	DJ4X1C-700	Orange	900 lb	48 x 45	Wood	700	96	27
	DJ4X1C-2000		900 lb	82 x 41	Wood	200	265	27
	DJ4X1C-2800		900 lb	84 x 45	Steel	2800	199	27
3	DL4X1C-750	Orange	900 lb	72 x 41	Wood	750	310	27

Features

- Riser-Gard is also suitable for direct burial. Not approved for exposed applications.
- Available in sizes 3/4" through 3"
- Pull tape can be factory pre-installed in 1" through 3"
- Outside Diameters meet IPS Dimensions
- Footage sequentially marked

Standard Stock – Coils

Size (in.)	Color	Cat. No.	Pull Tape	Coil Length (ft)	Product Wt. per 100 ft (lb)
3/4	Orange	DE4X1-350	Empty	350	12
1	Orange	DF4X1C-125	900 lb	125	15
	Orange	DF4X1C-250	900 lb	250	15
	Orange	DF4X1-250	Empty	250	15
	Orange	DF4X1C-500	900 lb	500	15
	Orange	DF4X1-250S	Empty/Split	250	15
1-1/4	Orange	DG4X1-200	Empty	200	17
	Orange	DG4X1-200S	Empty/Split	200	17
	Orange	DG4X1C-200	900 lb	200	17
	Orange	DG4X1C-500	900 lb	500	17
1-1/2	Orange	DH4X1-150S	Empty/Split	150	22
	Orange	DH4X1C-150	900 lb	150	22
2	Orange	DJ4X1-100S	Empty/Split	100	27
	Orange	DJ4X1C-100	900 lb	100	27
3	Orange	DL4X1C-250	900 lb	250	27

Specifications

Size (in.)	I.D. Min. Ref. (in.)	Min. O.D. (in.)	Max. O.D. (in.)	Min. Bend Radius (in.)
3/4	0.74	1.025	1.075	5
1	0.98	1.290	1.340	6
1-1/4	1.31	1.640	1.690	8
1-1/2	1.54	1.880	1.930	10
2	2.00	2.350	2.400	12
3	3.00	3.422	3.452	18

Custom Orders

How to Build a Catalogue Number:						
Position 1 Product	Position 2 Size (in.)	Position 3 Configuration	Position 4 Wall	Position 5 Color	Position 6 Pull Line	Position 7 Length
D = Riser-Gard	E = 3/4 F = 1 G = 1-1/4 H = 1-1/2 J = 2 L = 3	4 = Corrugated	X = Standard	1 = Orange 2 = Black 3 = Gray 4 = White 5 = Blue 7 = Yellow 8 = Red	C = 900 lb Tape	Example -1000 = Feet -1000S = 1000 Feet Split

- Custom Orders are not returnable
- Custom lengths are available in minimum order quantities of 1000 ft
- Custom color runs are available in minimum order quantities of 10,000 ft

- Options:
- Color: Black, Blue, Gray, Red, White and Yellow
 - Two, three or four way parallel
 - Split Duct
 - Custom print line

Non-Metallic Adapters and Couplings

- For use with Riser-Gard™ and General Purpose



Couplings

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
SCA240E	3/4	Orange	25	0.783
SCA240F	1	Orange	20	0.972



Threaded Adapters

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
SCA243E	3/4	Orange	100	2.30
SCA243F	1	Orange	50	2.00



Snap-In Adapters

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
SCA253E	3/4	Orange	100	2.90
SCA253F	1	Orange	50	2.30

Non-metallic Adapters and Couplings

- For use with Plenum-Gard™



Coupling

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
A340F	1	Orange	50	2.50



Threaded Adapter

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
A343F	1	Orange	50	1.55



Snap-In Adapter

Catalogue No.	Size (in.)	Color	Standard Carton Quantity	Standard Carton Weight (lb)
A353F	1	Orange	50	3.00

Resi-Gard™ Flexible Raceway (Approved for low voltage use only)

Ideal for providing a main chase from the main distribution panel to a secondary hub in the attic or basement. Resi-Gard™ non-metallic flexible raceway is available in 3/4" to 2" diameter sizes with factory installed pull tape in sizes 1" to 2". The raceway is hand bendable, lightweight and easily cut to length to reduce scrap. Bright orange color clearly signifies a low voltage installation.



Standard Length Coils

Cat. No.	Size (in.)	Pull Tape	Coil Length	Prod. Wt. (lb) Coil
SCE4X1-100	3/4	Empty	100	11.5
SCF4X1C-100	1	900 lb	100	17.9
SCG4X1C-100	1-1/4	900 lb	100	21.5
SCH4X1C-50	1-1/2	900 lb	50	11.2
SCJ4X1C-50	2	900 lb	50	13.4

Standard Length Reels

Cat. No.	Size (in.)	Pull Tape	Reel Length	Prod. Wt. (lb) Reel
SCE4X1-1000	3/4	Empty	1000	115.0
SCF4X1C-1500	1	900 lb	1500	268.5
SCJ4X1C-500	2	900 lb	500	133.5

Resi-Gard™ Fittings

A complete line of Carlton® one-piece quick connect couplings, threaded adapters and snap-in terminator adapters are available for quick, easy professional installation of Resi-Gard™ flexible raceway.

Quick Connect Couplings



Cat. No.	Size (in.)	Std Ctn Qty	Std Ctn Wt. (lb)
SCA240E	3/4	25	0.783
SCA240F	1	20	0.972

Male Terminal Adapters*



Cat. No.	Size (in.)	Std Ctn Qty	Std Ctn Wt. (lb)
SCE943G	1-1/4	50	3.0
SCE943H	1-1/2	25	2.5
SCE943J	2	50	6.8

Quick Connect Threaded Adapters



Cat. No.	Size (in.)	Std Ctn Qty	Std Ctn Wt. (lb)
SCA243E	3/4	25	0.633
SCA243F	1	20	0.778

Standard Couplings*



Cat. No.	Size (in.)	Std Ctn Qty	Std Ctn Wt. (lb)
SCE940G	1-1/4	30	3.5
SCE940H	1-1/2	25	3.9
SCE940J	2	30	5.2

*Must be cemented to Resi-Gard™ Flexible Raceway using ONLY Resi-Gard™ Solvent Cement.

Quick Connect Snap-In Adapters



Cat. No.	Size (in.)	Std Ctn Qty	Std Ctn Wt. (lb)
SCA253E	3/4	25	0.783
SCA253F	1	20	0.918

Flexible Raceway Accessories (Approved for low voltage use only)



Low Voltage Add-On Bracket

Catalogue No.	Size	Std Carton Quantity	Std Ctn Wt. (lb)
SC100SC	1 gang	24	2.3

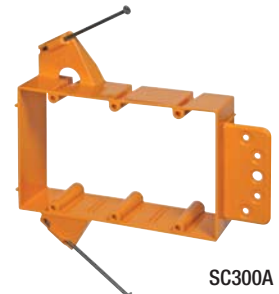
Low Voltage Adjustable Brackets

Catalogue No.	Size	Std Carton Quantity	Std Ctn Wt. (lb)
SC100ADJC	1 gang	24	7.5
SC200ADJC	2 gang	20	6.9



Low Voltage Brackets

Catalogue No.	Size	Resi-Rings (in.)	Std Carton Quantity	Std Ctn Wt. (lb)
SC100A	1 gang	3/4, 1, 1-1/4	24	5.3
SC200A	2 gang	3/4, 1, 1-1/4	24	7.7
SC300A	3 gang	—	5	1.6



Cable Clips

Carlon's cable clips with pre-installed nails provide fast and easy installation for either a single cable, 2-3 cables or 1 bundled cable.

Catalogue No.	Size (in.)	Standard Order Quantity	Std Ctn Qty	Std Ctn Wt. (lb)
SC14CC	1/4	1 ea. (Equals one bag of 100 clips)	10 bags of 100	2.23
SC12CC	1/2	1 ea. (Equals one bag of 25 clips)	10 bags of 25	2.31
SC34CC	3/4	1 ea. (Equals one bag of 10 clips)	20 bags of 10	2.96



Conduit Clamps

Carlon's orange conduit clamps are designed specifically for the installation of Resi-Gard®.



Note: Each clamp requires 2 screws, 2 nuts and/or 2 bolts.

Catalogue No.	Size (in.)	Standard Order Quantity	Std Carton Quantity	Std Ctn Wt. (lb)
SCE977EC	3/4	1 ea. (Equals one bag of 5 clamps)	20 bags of 5	1.5
SCE977FC	1	1 ea. (Equals one bag of 5 clamps)	12 bags of 5	1.3
SCE977GC	1-1/4	1 ea. (Equals one bag of 5 clamps)	8 bags of 5	1.1
SCE977HC	1-1/2	1 ea. (Equals one bag of 5 clamps)	6 bags of 5	1.0
SCE977JC	2	1 ea. (Equals one bag of 5 clamps)	6 bags of 5	1.5

Product Overview

Hal-Free Riser-Gard™ is a halogen free non-metallic flexible raceway for use in riser and general purpose applications. In the event of a fire, this product will not release halogen elements into the air, which makes it ideal for applications in tunnels, laboratories and high-tech environments.

Custom lengths and split ducts are available upon request.
Hal-Free Riser-Gard™ is available in white only.

Technical Information:

UL Standard 2024	Maximum Value
Maximum Flame Propagation	3'6"
Maximum Air Temperature	197°C (387°F)

- Storage and Handling: -20°C to 66°C (-4°F to 150°F).
- No UV protection (not suitable for outdoor use).
- Do NOT store outside.



Applications: Riser and General Purpose.

- Free from halogen elements.
- Available in sizes 1" through 2".
- Available in white only.
- Sequentially marked footage.



Standard Stock - Reels

Cat. No.	Size (in.)	Color	Nom. I.D.	Nom. O.D.	Pull Tape	Reel Size (F x W) (in.)	Reel Type	Reel Length (ft)	Reel Wt. (lb)	Product Wt. per 100 ft (lb)
HF4X4C-5000	1	White	1.049	1.365	900 lb	72 x 41	Wood	5000	310	7.5
HG4X4C-4000	1-1/4	White	1.250	1.550	900 lb	72 x 41	Wood	4000	310	7.5
HH4X4C-2000	1-1/2	White	1.500	1.850	900 lb	66 x 41	Wood	2000	250	12
HJ4X4C-2000	2	White	2.000	2.425	900 lb	82 x 41	Wood	2000	365	21

Micro-Gard™ Plenum & Micro-Gard™ Riser

Carlon® Micro-Gard™ Plenum and Micro-Gard™ Riser are specifically designed to provide fiber pathways in plenum and riser applications in Multi-Dwelling Units (MDUs) and other premise structures.

The 8/6 and 12/10 mm size conduits can be installed individually or used to optimize space in existing duct structures. And the small size significantly reduces the structural damage caused during pass-throughs.

Micro-Gard™ Plenum and Riser are listed for plenum and riser applications. They're easy to handle, easy to install and easy to conceal, thus making them the ideal MDU cable management system.

***Carlon® Micro-Gard™ Plenum and Micro-Gard™ Riser.
Small. Slick. Speedy. Ideal for Telecom Installs!***

Features

- c-UL Listed for Plenum and Riser applications.
- Two Sizes: 8/6 mm and 12/10 mm. The smaller sizes accommodate the size constraints of multi-dwelling units and make installations faster and easier.
- Smooth interior wall eliminates snag points and provides low coefficient of friction regardless of whether jetting or pull-tape is used.
- Superior burn-through resistance for longer cable pulls.
- Pre-installed pull-tape makes installing cable faster and easier (option available for empty duct).
- Sequentially marked footage to easily identify lengths and reduce waste.
- Reel sizes from 1000 to 5000 feet for easy handling on the jobsite.
- Future-proofing raceway system for fast, easy wire/cable upgrades, changes and moves.
- Used in cable bundles.



Micro-Gard™ Plenum & Micro-Gard™ Riser



Specifications

Catalogue No.	Size	Type	Color	Pre-Installed Tape	Min. Bend Radius (in.)*	Feet/Reel	Reel Size (in.)
MGP08MT-1000	8/6 mm	Plenum	White	200 lb	2	1000	24
MGP08MT-2500	8/6 mm	Plenum	White	200 lb	2	2500	24
MGP08MT-5000	8/6 mm	Plenum	White	200 lb	2	5000	36
MGP12MT-1000	12/10 mm	Plenum	White	200 lb	4	1000	24
MGP12MT-2500	12/10 mm	Plenum	White	200 lb	4	2500	24
MGR08JT-1000	8/6 mm	Riser	Orange	200 lb	2	1000	24
MGR08JT-2500	8/6 mm	Riser	Orange	200 lb	2	2500	24
MGR08JT-5000	8/6 mm	Riser	Orange	200 lb	2	5000	36
MGR12JT-1000	12/10 mm	Riser	Orange	200 lb	4	1000	24
MGR12JT-2500	12/10 mm	Riser	Orange	200 lb	4	2500	24
MGR12JT-5000	12/10 mm	Riser	Orange	200 lb	4	5000	36

* Important: Do not exceed the minimum bend radius during installation of the product.

How to Interpret a Catalogue Number

Position 1 Product	Position 2 Type	Position 3 Size	Position 4 Color	Position 5 Pull Line	Position 6 Length
MG = Micro-Gard	P = Plenum R = Riser	08 = 8/6 mm 12 = 12/10 mm	J = Orange M = White	T = 200 lb Tape	Example -1000 = 1000 Feet