

**Issue Date:** 1/29/2013

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**File:** PSS-SFJ15WX

|      |                         |         |
|------|-------------------------|---------|
| 15kV | Shrink Fit Cable Joints | SFJ15WX |
|------|-------------------------|---------|



## Features:

- High quality molded EPDM rubber housing
- Four piece rigid support core for easy placement and easy removal to ensure connection
- Can be installed without the need of heat tools
- Wide range of cable and conductor sizes supported
- 15kV Fully rated shrink fit cable joint

## SFJ15 Shrink Fit Cable Joints

### Applications:

The Elastimold® SFJ series of shrink fit joints are designed to be used for in-air, direct buried in earth, water submerged, manholes or vaults. The SFJ series of joints are constructed of high quality EPDM rubber with a four piece rigid support core which provides for easy joint placement and is easily removed to secure the joint in place. The SFJ series covers a wide range of cable sizes and can be used with standard aluminum or copper crimp connectors or shear bolt connectors. They can also be combined with other Elastimold® products such as the ECS series for metallic shield grounding. Common applications for the Elastimold® SFJ series of cable joints are the following:

- Direct Buried
- Handhole/Pullbox
- Manhole
- Vault
- Overhead

### Ratings:

Meets IEEE Standard 404, Latest Revision

#### For 15kV Voltage Class:

8.7kV Max Phase-to-Ground – Operating Voltage  
 110kV BIL – Impulse Withstand (1.2 x 50 µsecond wave)  
 13kV AC – Corona Extinction @ 3pC sensitivity  
 56kV DC – Withstand during installation  
 18kV DC – Withstand for XLPE insulated cables\*  
 45kV DC – Withstand for EPR insulated cables\*  
 35kV AC – Withstand for 1 minute

Continuous current rating equal to that of cable rating.  
 Short-time current rating equal to that of cable rating up to 35kA.

Shield design meets IEEE Standard 592, Latest Revision

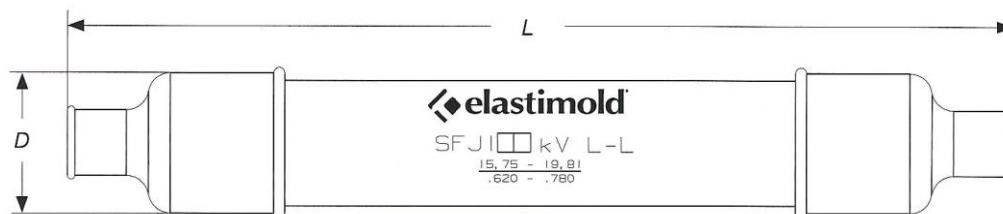
#### Cyclic Aging:

30 days at 26.1kV AC continuous, load current for 8 hours per day, providing 130°F conductor temperature.

Connectors meet ANSI C119.4 Class A and Class 3 ratings.

**\* Up to 5 years, Reference AEIC CS6 and CS8, Section L.2.**

|      |                         |         |
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## Catalog Number Selection:

| Size Code | Dimensions |       | Wall Thickness (mils) | Min Conductor Size (Ins.) | Max Conductor Size (Ins.) | Min Insulation (in) | Max Insulation (in) | Min Insulation (mm) | Max Insulation (mm) |
|-----------|------------|-------|-----------------------|---------------------------|---------------------------|---------------------|---------------------|---------------------|---------------------|
|           | D(in)      | L(in) |                       |                           |                           |                     |                     |                     |                     |
| 1         | 1.85       | 11    | 175                   | # 2 AWG                   | 3/0 AWG                   | 0.620               | 0.780               | 15.75               | 19.81               |
| 2         | 2.12       | 16    | 175                   | 4/0 AWG                   | 250 kcmil                 | 0.830               | 0.890               | 21.08               | 22.61               |
| 3         | 2.4        | 18    | 175                   | 350 kcmil                 | 600 kcmil                 | 0.980               | 1.190               | 24.89               | 30.23               |
| 4         | 2.6        | 18    | 175                   | 700 kcmil                 | 1000 kcmil                | 1.245               | 1.520               | 31.62               | 38.61               |
| 1         | 1.85       | 11    | 220                   | # 2 AWG                   | 1/0 AWG                   | 0.620               | 0.780               | 15.75               | 19.81               |
| 2         | 2.12       | 16    | 220                   | 2/0 AWG                   | 4/0 AWG                   | 0.830               | 0.890               | 21.08               | 22.61               |
| 3         | 2.4        | 18    | 220                   | 250 kcmil                 | 500 kcmil                 | 0.980               | 1.190               | 24.89               | 30.23               |
| 4         | 2.6        | 18    | 220                   | 600 kcmil                 | 1000 kcmil                | 1.245               | 1.520               | 31.62               | 38.61               |

SFJ -



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|       |   |
|-------|---|
| Crimp | C |
|-------|---|



|   |              |
|---|--------------|
| 1 | Universal Al |
| 2 | Copper       |



| X Code | Conductor Size AWG or kcmil |              |
|--------|-----------------------------|--------------|
|        | Strand./ Compr.             | Solid/ Comp. |
| 210    | -                           | #2           |
| 220    | #2                          | #1           |
| 230    | #1                          | 1/0          |
| 240    | 1/0                         | 2/0          |
| 250    | 2/0                         | 3/0          |
| 260    | 3/0                         | 4/0          |
| 270    | 4/0                         | 250          |
| 280    | 250                         | 300          |
| 290    | 300                         | 350          |
| 300    | 350                         | 400          |
| 310    | 400                         | 500          |
| 330    | 500                         | 600          |
| 360    | 650                         | 750          |
| 380    | 750                         | 900          |
| 400    | 900                         | 1000         |
| 410    | 1000                        | -            |

## Each kit contains the following:

|   |                          |            |
|---|--------------------------|------------|
| 1 | Housing on core          | SFJ-S3     |
| 1 | Connector                | 0240333PPU |
| 1 | Lubricant                | 82-08      |
| 1 | Installation Instruction | IS-XXXX    |
| 1 | Crimp Chart              | CC-0029    |