

Issue Date: 08/09/2016

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File: PSS-274FLRH-W0X

15.5/16.2kV	200A Loadbreak Fused Elbow	w/ Test Point	274FLRH-W0X
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Note: Fuse is ordered separately

Features:

- Full-range current-limiting fusing with 50kA interrupting capability
- Hot stick operable 25/28kV Loadbreak Elbow switching
- Fully sealed and submersible with ECS series sealing kits
- Insulates, shields, and eliminates exposed live parts
- Split center section for easy fuse replacement
- Built in voltage test points for quick and convenient

274FLR Loadbreak Fused Elbow Connector

Applications:

The Elastimold® 274FLR combines the advantages of Full-Range Current-Limiting Fusing with the convenience of 25kV/28kV hot stick operable, loadbreak elbow switching. This is the fastest, most cost effective way to improve the distribution system's reliability without adding a separate piece of switchgear or replacing existing sectionalizing cabinets. Simply replace existing 200 Amp loadbreak tap elbows with Elastimold® Fused Elbows to protect light duty underground distribution systems including sub-loops, and radial taps. Elastimold® Fused Elbows have been designed and tested per applicable portions of IEEE, ANSI, and other industry standards including:

ANSI C37.40 Standard for Current Limiting Fuse Service Conditions
ANSI C37.41 Standard for Current Limiting Fuse Design and Testing.
ANSI C37.47 Standard for Current Limiting Fuse Ratings and Specifications
IEEE 386 Standard for Separable Connectors.

Ratings:

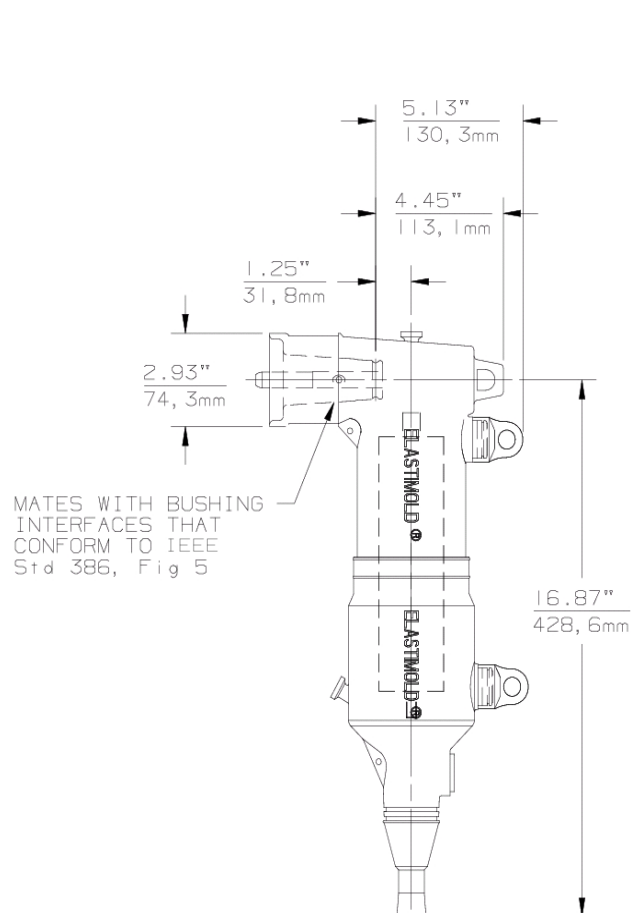
Meets IEEE 386, ANSI C37.40, ANSI C37.41, and ANSI C37.47, Latest Revision

For 25/28kV Voltage Class:

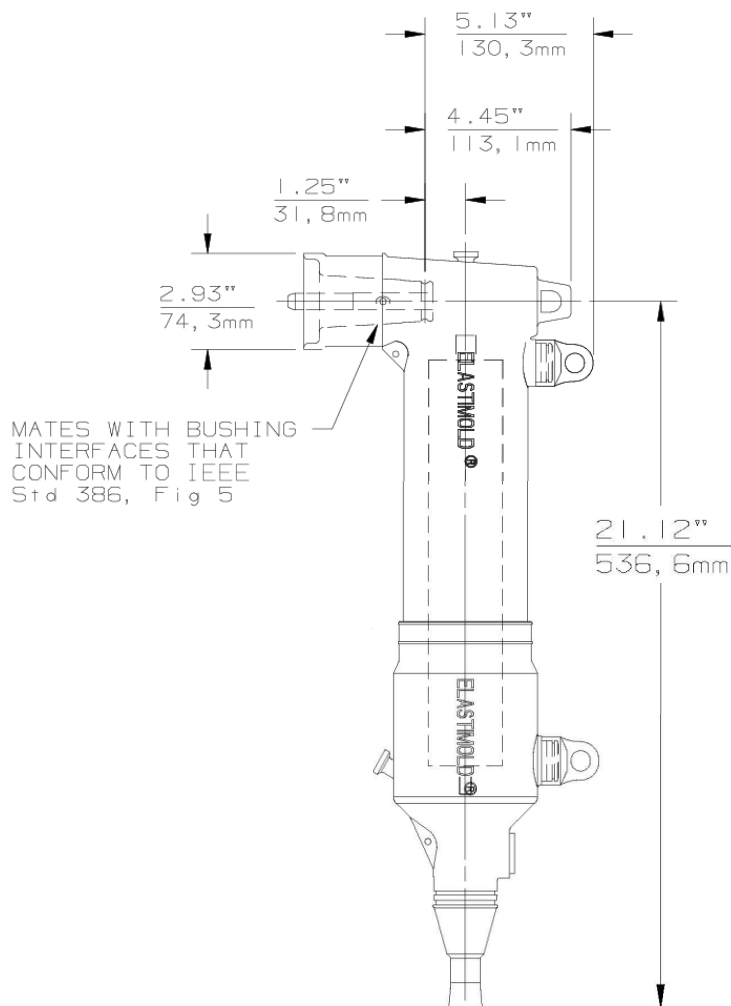
16.2kV Nominal Fuse Voltage (Phase to Ground)
50/60 Hz - Frequency
140kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
40kV AC – One minute withstand
84kV DC – 15 minutes withstand
21.5kV AC – Corona Extinction @ 3pC sensitivity
50,000 Amp – Symmetrical Interrupting Capability
6-20 Amp – Current Rating

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PRODUCT HOUSING DRAWINGS



SIZE 1 HOUSING



SIZE 3 HOUSING

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CATALOG NUMBER SELECTION

Step 1 (H)

Select the housing size desired based on desired fuse.

Step 2 (W)

Determine the insulation diameter of the cable.

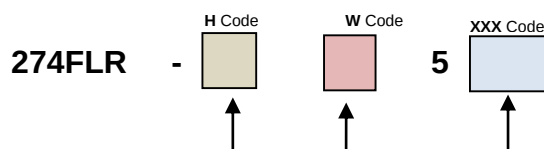
Select the insulation letter code that best straddles the insulation diameter from W table below. Insert code into catalog number.

Step 3 (X)

Choose the proper compression lug code according to the conductor size from the Conductor Code Table. Insert code into catalog number.

Each kit contains the following:

1	Elbow connector housing	274BFLR-H
1	Crimp Connector	08605XXX
1	Probe Lug	2000-103
4	Tube, lubricant	82-08
1	Installation instruction	IS-0926
1	Crimp chart	CC-0099
1	V.D Cap-Peroxide	156-7



Housing	H CODE
Fuse Size and Voltage	
3-45A 8.3kV and 6-20A 15.5kV	1
65-80A 8.3kV and 3-45A 17.2kV	3

Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.575	0.740	14.61	18.80	A
0.635	0.905	16.13	22.99	B
0.805	1.060	20.45	26.92	C
0.890	1.220	22.61	30.99	D

XXX Code	Conductor Size AWG or kcmil			Connector only
	Strand. Compr.	Solid/ Comp.	mm ²	Bi-Metal*
190	-	#4	16.76	08605190
200	#4	#3	21.14	08605200
210	#3	#2	26.67	08605210
220	#2	#1	33.62	08605220
230	#1	1/0	42.41	08605230
240	1/0	2/0	53.49	08605240
250	2/0	3/0	67.43	08605250
260	3/0	4/0	85.01	08605260
270	4/0	250	26.67	08605270

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IMPORTANT:

For safety purposes, a sealing & grounding kit with the loadbreak elbow is **HIGHLY RECOMMENDED**. Please choose from the sealing and grounding kit below:

Jacket Concentric Neutral Cable

Copper Tape Shield Cable

200ECS

200ECS-G3

For Jacketed Concentric Neutral Cables, the sealing kit part number will be: **200ECS** or add suffix “-S” to part number for cables with nominal O.D. within the range of .80”-1.50”

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded, jacketed concentric neutral, 220 mil wall cable with an insulation diameter of .805” to .895”, overall cable diameter is 1.03” and with a capacitive test point is **274FLRH-B5240-S**.

For installation instruction for the 200ECS, please see IS-459

For Copper Tape Shield Cables, the sealing & grounding kit part number will be: **200ECS** or add suffix “-S-G3” to part number for cables with nominal O.D. within the range of .80”-1.50”

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded, copper tape shield, 220 mil wall cable with an insulation diameter of .805” to .895”, overall cable diameter is 1.05” and with a capacitive test point is **274FLRH-B5240-S-G3**.

For installation instruction for the 200ECSG3, please see IS-460

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Unishield Cable

10TL-W



For Unishield Cables, the shield adapter part number will be: **10TL-W**, where the "W" letter code will be determined by the insulation diameter of the Unishield cable. Please see W Table below for W code. Or add suffix "-TL" to the part number.

10TL - W Code

Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.495	0.585	12.6	14.9	EB
0.525	0.635	13.3	16.1	EF
0.575	0.685	14.6	17.4	FA
0.625	0.735	15.9	18.7	FAB
0.675	0.785	17.1	19.9	FB
0.725	0.835	18.4	21.2	FG
0.775	0.885	19.7	22.5	GA
0.825	0.935	21.0	23.7	GAB
0.875	0.985	22.2	25.0	GB
0.930	1.040	23.6	26.4	GH
0.980	1.115	24.9	28.3	HA
1.040	1.175	26.4	29.8	HAB
1.095	1.240	27.8	31.5	HB
1.160	1.305	29.5	33.1	HJ
1.220	1.375	31.0	34.9	JA
1.285	1.395	32.6	35.4	JAB
1.355	1.520	34.4	38.6	JB
1.485	1.595	37.7	40.5	KA
1.530	1.640	38.9	41.7	KAB
1.575	1.685	40.0	42.8	KB
1.765	1.875	44.8	47.6	PB

Example:

The ordering number for an Elbow Connector for a 1/0 compressed/stranded Uni-shield, 220 mil wall cable with an insulation diameter of .825" to .935", overall cable diameter is 1.03" and with capacitive test point is **274FLRH-B5240-TL**.

Copper Tape Shield Cable



Example:

Partial installation example of **274FLRH-B5240-SG3** for copper tape shield cables. For full instruction please see IS-460.

Concentric Neutral Cable



Example:

Partial installation example of **274FLRH-B5240-S** for concentric neutral cables. For full instruction please see IS-459.