

Issue Date: 07/28/2016

Page: 1 of 4

File: PSS-274RLR-W5X

25kV	200A Loadbreak Replacement Elbow	w/ Test Point	274RLR-W5X
------	----------------------------------	---------------	------------



Features:

- Extended length housing and compression lug
[+ 10-1/2" (266,7 mm)]
- 25kV, 200A Loadbreak Elbow Connector
- Fully shielded, fully submersible molded rubber housing
- 100% Peroxide-cured insulation, insert and jacket
- Provision for hot stick operation
- Provision for ground wire connection
- Wide cable range with minimum number of cable sizes
- Non-corrosive capacitive test point

274RLR Loadbreak Replacement Elbow Connector

Applications:

The Elastimold® 274RLR Replacement Elbow is a fully rated 25kV, 200 Amp Class loadbreak elbow connector with a lengthened compression lug and housing. The Replacement Elbow accommodates cables that are too short to be connected with a standard elbow. The 274RLR is designed for connecting to and operating 25kV Class, 125kV BIL apparatus. Typical uses for the special characteristics of the 274RLR Replacement Elbow include the following:

- Repair of a failed elbow connection where the cable must be stripped back and a new compression lug applied.
- To gain extra length when cables have been accidentally trimmed too short or to connect new apparatus to existing cables.
- Convert equipment connections from live front to dead front without changing cable.

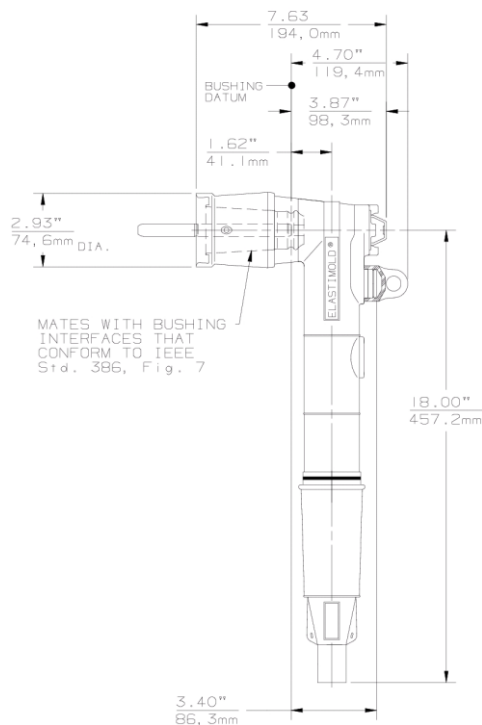
Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

For 25kV Voltage Class:

15.2kV Max Phase-to-Ground – Operating Voltage
26.3kV Max Phase-to-Phase
125kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
40kV AC – One minute withstand
78kV DC – 15 minutes withstand
19kV AC – Corona Extinction @ 3pC sensitivity
200 Amp – Continuous and Loadbreak
10kA Sym – 10 Cycles Momentary & Fault Close

25kV	200A Loadbreak Replacement Elbow	w/ Test Point	274RLR-W5X
------	----------------------------------	---------------	------------



CATALOG NUMBER SELECTION

Step 1 (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 2 (X)

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

Example:

The ordering number for a Replacement Elbow for a 1/0 compressed/stranded, 260 mil wall cable with an insulation diameter of .885" to .975" and test point is 274RLR-H5240.

274RLR

W Code

XXX Code

5

Cable Insulation Diameter in Inches		Cable Insulation Diameter in mm		Symbol for W
MIN.	MAX.	MIN.	MAX.	
0.760	0.950	19.30	24.13	G
0.850	1.050	21.59	26.67	H
0.980	1.180	24.89	29.97	J
1.090	1.310	27.69	33.27	K

XXX Code	Conductor Size AWG or kcmil			Connector only
	Strand./ Compr.	Solid/ Comp.	mm ²	Bi-Metal
190	-	#4	16.76	00400190
200	#4	#3	21.14	00400200
210	#3	#2	26.67	00400210
220	#2	#1	33.62	00400220
230	#1	1/0	42.41	00400230
240	1/0	2/0	53.49	00400240
250	2/0	3/0	67.43	00400250
260	3/0	4/0	85.01	00400260
270	4/0	250	107.20	00400270

Each kit contains the following:

1	Elbow connector housing	274RLR-W
1	Bi-metal compression lug	00400XXX
1	Probe wrench	271-94
1	Probe	274LRF
1	Tube, lubricant	82-08
1	Installation instruction	IS-0425
1	Hose clamp	65-27-2
1	Crimp chart	CC-0060
1	V.D Cap-Peroxide	156-7

25kV	200A Loadbreak Replacement Elbow	w/ Test Point	274RLR-W5X
------	----------------------------------	---------------	------------

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

200ECS



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 capacitive test point is **274RLR-B5240-S**.

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



Copper Tape Shield Cable

200ECG3



For Copper Tape Shield Cables, the sealing & grounding 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, copper tape shield, 220 mil wall cable with an insulation diameter of .805” to .895”, overall cable diameter is 1.05” and capacitive test point is **274RLR-B5240-SG3**.

For installation instruction for the 200ECG3, please see IS-460



25kV	200A Loadbreak Replacement Elbow	w/ Test Point	274RLR-W5X
------	----------------------------------	---------------	------------

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 Unishield, 220 mil wall cable with an insulation diameter of .825" to .935", overall cable diameter is 1.03" and capacitive test point is **TL-GAB** Plus the kit **274RLR-B5240-S**

Copper Tape Shield Cable



Example:

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

Concentric Neutral Cable



Example:

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