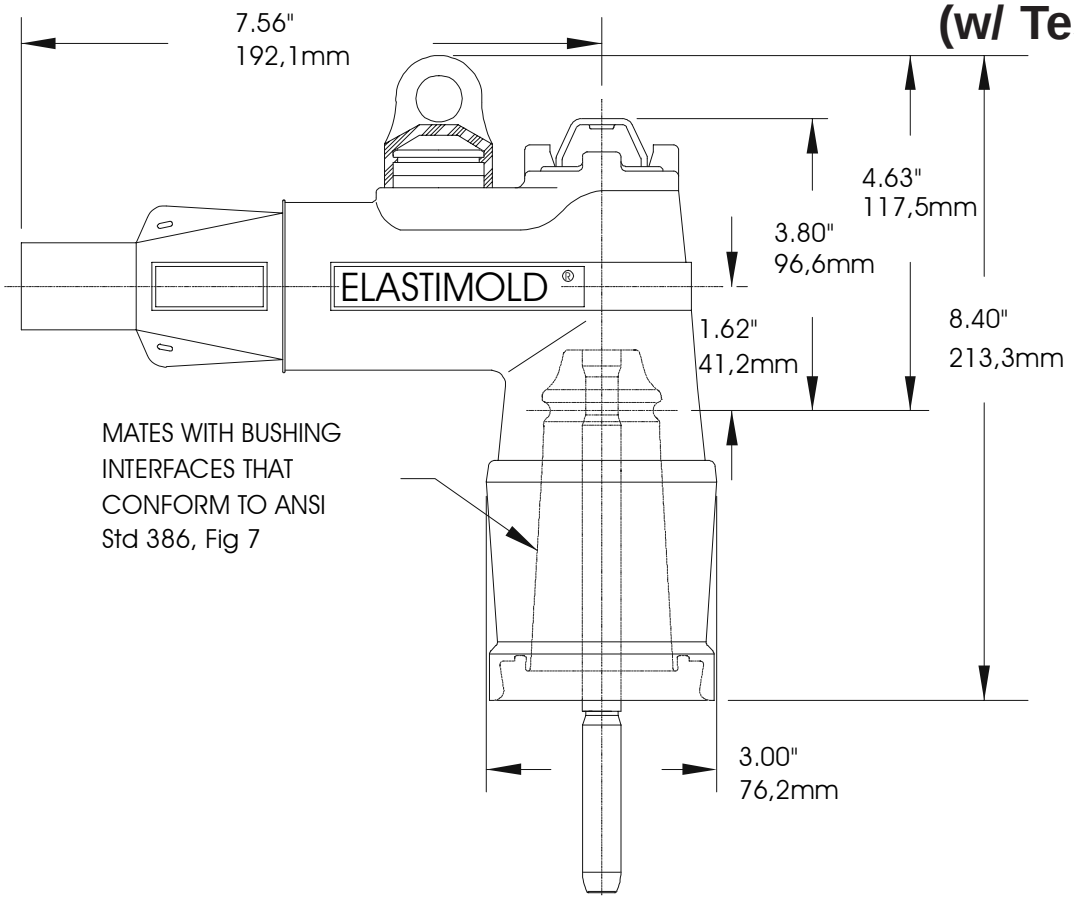
elastimold

PRODUCT SPECIFICATION SHEET

I T C

25kV 200A Loadbreak Elbow — 274LR-WX (w/ Test Point)



The Elastimold 274LR Elbow Connector is a fully rated 25kV, 200 Amp Class loadbreak connector. It includes provisions for energized operation using standard hotstick tools allowing loadmake/break operation and a visible disconnect. It has a standard interface for connecting to 25kV, 200 Amp bushing inserts, junctions and operating accessories. The 274LR are equipped with an integral voltage test point.

Features

- 25kV, 200 Amp Loadbreak Elbow
- Fully shielded, fully submersible molded rubber housing.
- 100% peroxide-cured construction includes insulation and conductive EPDM materials.
- Non-corrosive, capacitively coupled voltage test point provision with removable protective cap.
- Provision for hot stick operation.
- Provision for ground wire connection.
- Wide cable range with minimum number of sizes.
- Long bi-metal compression lug is standard.

Ratings

per ANSI/IEEE Standard 386
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 @ 3p.C.sensitivity
200 Amp - Continuous and Loadbreak
10kA Sym - 10 Cycles Momentary & Fault Close

Applications

The 274LR is designed for connecting to and operating 25kV Class, 200 Amp distribution apparatus. It provides a convenient method to connect/disconnect cable and equipment on power distribution systems. The 274LR allows connection of cables with insulation diameters from .760" (19,3mm) to 1.310" (33,3mm) with only four elbow sizes. (#2 solid, 260 mil to 4/0 stranded, 345 mil)

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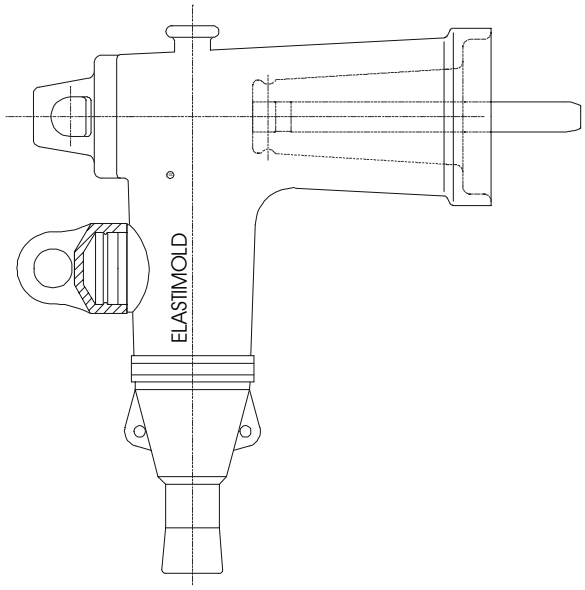
Thomas&Betts

25kV 200A Loadbreak Elbow (w/ Test Point) 274LR-WX



Ordering Instruction:

Step 1 (W)
Determine the insulation diameter of the cable. Select the insulation letter code that best straddles the insulation diameter. Insert code into catalog number.

Step 2 (M)
Determine connector material, 2 - for copper and 5 - for copper top bi-metal.

Step 3 (X)
Choose the proper compression lug code according to the conductor size. Insert code into the catalog number after the insulation code.

274LR – [Step 1 (W)] – 2 or 5 [Step 3 (X)]

Cable Insulation Dia. Range		Elbow
Inches	mm	Code
.760 - .950	19.30 – 24.13	G
.850 – 1.050	21.59 – 26.67	H
.980 – 1.180	24.89 – 29.97	J
1.090 – 1.310	27.69 – 33.27	K

COMPRESSION LUG			
AWG or kcmil		mm^2	Symbol
Stranded/ Compr.	Solid/ Compact	Compact Only	for "X"
--	2	25	210
2	1	35	220
1	1/0	50	230
1/0	2/0	60	240
2/0	3/0	70	250
3/0	4/0	95	260
4/0	250	125	270

Cu or AL conductor

The Elbow Connector kit contains the following:

1 – Elbow connector housing	274BLR-W
1 – Bi-metal compression lug	02500XXX (Table R)
1 – Probe	274LRF
1 – Probe wrench	271-94
1 – Tube, lubricant	82-08
1 – Installation instruction	IS-273/274LR (C) 7/95
1 – Crimp chart	IS-02500CC 10/96

Example:

The ordering number for an Elbow Connector for a 1/0 stranded, 260 mil wall cable with an insulation diameter of .955" (23.4 mm) is 274LR-H-5240.

For an all-copper compression lug for use on copper cable only, substitute the prefix "2" instead of "5" in the compression lug code. The ordering number would be 274LR-H-2240.

Table R

REPLACEMENT COMPRESSION LUG NUMBER				
AWG or kcmil		mm^2	Symbol	Symbol
Stranded/ Compr.	Solid/ Compact	Compact Only	for COPPER	for BI-METAL
--	2	25	02702210	02500210
2	1	35	02702220	02500220
1	1/0	50	02702230	02500230
1/0	2/0	60	02702240	02500240
2/0	3/0	70	02702250	02500250
3/0	4/0	95	02702260	02500260
4/0	250	125	02702270	02500270