

Issue Date: 02/13/2017

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File: PSS-161A4-W5X

15kV	200A Loadbreak Elbow w/ Bushing Kit	w/o Test Point	161A4-W5X
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Features:

- 15kV, 200 Amp Loadbreak Elbow
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Provision for hot stick operation
- Provision for ground wire connection
- Long bi-metal compression lug is standard
- Wide cable range with minimum number of sizes

161A4 Loadbreak Elbow Connector w/ Bushing Kit

Applications:

The Elastimold® 161A4 Elbow Connector with Bushing Kit is a fully rated 15kV, 200 Amp Class loadbreak connector. It includes provisions for energized operation using standard hotstick tools allowing loadmake/loadbreak operation and a visible disconnect. It has a standard interface for connecting to 15kV, 200 Amp bushing inserts, junctions, and operating accessories. The 161A4 is designed for connecting to and operating 15kV Class, 200 Amp distribution apparatus. It provides a convenient method to connect/disconnect cable and equipment on power distribution systems. The 161A4 allows connection of cables with insulation diameters from .575" (14,6mm) to 1.220" (31,0mm) with only four elbow sizes. (#4 solid, 175 mil to 4/0 stranded, 260 mil)

Ratings:

Meets ANSI/IEEE Standard 386, Latest Revision

For 15kV Voltage Class:

8.3kV Max Phase-to-Ground – Operating Voltage
 14.4kV Max Phase-to-Phase
 95kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
 34kV AC – One minute withstand
 53kV DC – 15 minutes withstand
 11kV AC – Corona Extinction @ 3pC sensitivity
 200 Amp – Continuous and Loadbreak
 10kA Sym – 10 Cycles Momentary & Fault Close

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CATALOG NUMBER SELECTION

Step 1 (W)

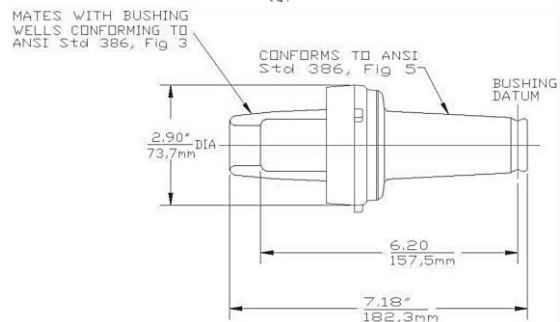
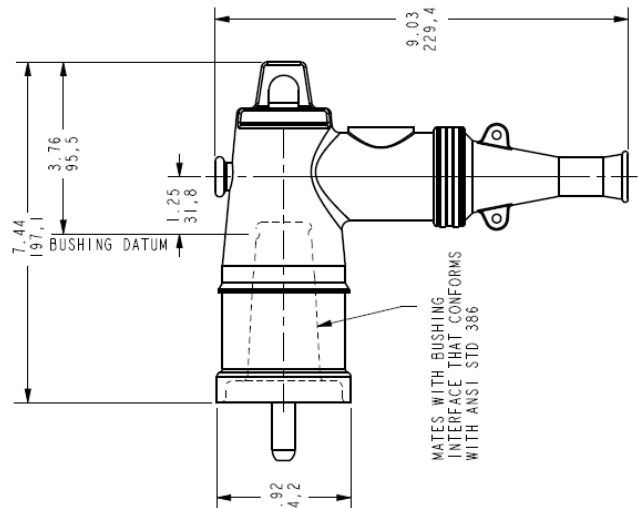
Determine the insulation diameter of the cable.
Select the insulation letter code that best straddles the insulation diameter from W table below. Insert code into catalog number.

Step 2

Insert conductor material code from the Material Code table.
Code 5 is standard.

Step 3 (X)

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



161A4 - W Code

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

Material Code	
2	Copper*
5	Bi-metal**

XXX Code

XXX Code	Conductor Size AWG or kcmil			Connector only	
	Strand./ Compr.	Solid/ Comp.	mm ²	Bi-Metal	Copper
190	-	#4	16.76	02500190	02702190
200	#4	#3	21.14	02500200	02702200
210	#3	#2	26.67	02500210	02702210
220	#2	#1	33.62	02500220	02702220
230	#1	1/0	42.41	02500230	02702230
240	1/0	2/0	53.49	02500240	02702240
250	2/0	3/0	67.43	02500250	02702250
260	3/0	4/0	85.01	02500260	02702260
270	4/0	250	107.20	02500270	02702270

Each kit contains the following:

1	Elbow connector housing	161BLR-W
1	Bi-metal compression lug	02500XXX
1	Probe	162LRF
1	Probe wrench	271-94
1	Bushing Insert	1601A4
1	Protective shipping cap	1601-APC-1
1	Tube, lubricant	82-08
1	Crimp chart	CC-0020
1	Installation Instruction	IS-1378

Notes:

* Copper compression lug suitable for all copper conductor only.

** Bi-metal compression lug with universal aluminum barrel suitable for copper or aluminum conductors.

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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 without a capacitive test point is **161A4-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 without a capacitive test point is **161A4-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 without capacitive test point is **161A4-B5240-TL**.

Copper Tape Shield Cable



Bushing
1601A4

Concentric Neutral Cable



Bushing
1601A4

Example:

Partial installation example of **161A4-B5240-SG3** for copper tape shield cables. For full instruction please see IS-460.

Example:

Partial installation example of **161A4-B5240-S** for concentric neutral cables. For full instruction please see IS-459.