# elastimold Product Specifications

200A Loadbreak Elbow	w/ Test Point		6LR-W5X	
		Page: File:	1 of 2 PSS-166LR-W5X	
		Issue Date:	11/09/2012	

### 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
- Wide cable range with minimum number of sizes
- Non-corrosive capacitive test point

#### 166LR Loadbreak Elbow Connector

#### Applications:

The Elastimold® 166LR Elbow Connector 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 166LR 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 166LR 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



15kV

## **elastimold** Product Specifications

									lssue Page: File:		1/09/2012 2 of 2 -166LR-W5X
5kV		200	)A Lo	adbreal	k Elbo	W		w/ Test Point	:	166LR-W	5X
CAT	ALOG	NUMB	ER SE	ELECTIO	N		·	-	<u>7.84"</u> 199, On		
the insul ter from V		er code th	nat best	cable. straddles the into catalog		n		-	7 9 19 19	53" I, 3mm A 3.92 99, 6	2
<b>2</b> conducto 5 is stanc		l code fro	om the N	laterial Code	e table.		_		1.29" 32,8mm		
<b>3 (X)</b> e the pro ctor size g number	from the	pression l Conducto	ug code or Code	according to Table. Insert	the code into		<u>2.92"</u> 74, 3mm				
						<b>al Code</b> Copper*		WITH BUS REACES THA DRM TO LEE	E	ASTIMOL	
						Bi-metal**		386, Fig	5		7.
		166LR	-	W Code		XXX Code					)
Cable Insulation Cable Insulation Diameter in Inches							ductor Size AWG or		Connector only		
				Gumbal		e	Condu	uctor Size A	WG or	Connec	ctor only
				Symbol for W		( Code		kcmil	WG or		ctor only
<b>Diameter</b> <b>MIN.</b> 0.575	<b>MAX.</b> 0.740	Diamete MIN. 14.61	er in mm MAX. 18.80	for W A		XXX Code	Strand./	kcmil Solid/		Conneo Bi- Metal	ctor only Copper
Diameter           MIN.           0.575           0.635	in Inches MAX. 0.740 0.905	Diamete MIN. 14.61 16.13	er in mm MAX. 18.80 22.99	for W A B		AXX Code		kcmil	<b>WG or</b> <b>mm<sup>2</sup></b> 16.76	Bi-	-
Diameter           MIN.           0.575           0.635           0.805	in Inches MAX. 0.740 0.905 1.060	Diamete MIN. 14.61 16.13 20.45	er in mm MAX. 18.80 22.99 26.92	for W A B C			Strand./	kcmil Solid/ Comp.	mm²	Bi- Metal	Copper
Diameter           MIN.           0.575           0.635	in Inches MAX. 0.740 0.905	Diamete MIN. 14.61 16.13	er in mm MAX. 18.80 22.99	for W A B		190	Strand./ Compr.	kcmil Solid/ Comp. #4	<b>mm²</b> 16.76	Bi- Metal 02500190	<b>Copper</b> 027002190
Diameter           MIN.           0.575           0.635           0.805           0.890	in Inches MAX. 0.740 0.905 1.060 1.220 ample:	Diamete MIN. 14.61 16.13 20.45 22.61	MAX.           18.80           22.99           26.92           30.99	for W A B C D		190 200	Strand./ Compr. - #4	kcmil Solid/ Comp. #4 #3	<b>mm<sup>2</sup></b> 16.76 21.14	Bi- Metal           02500190           02500200	<b>Copper</b> 027002190 02702200
Diameter           MIN.           0.575           0.635           0.805           0.890	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r	Diamete MIN. 14.61 16.13 20.45 22.61	er in mm MAX. 18.80 22.99 26.92 30.99	for W A B C D		190 200 210	Strand./ Compr. - #4 #3	kcmil Solid/ Comp. #4 #3 #2	mm <sup>2</sup> 16.76 21.14 26.67	Bi- Metal           02500190           02500200           02500210	Copper 027002190 02702200 02702210
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cab	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comp le with an i	Diamete MIN. 14.61 16.13 20.45 22.61	er in mm MAX. 18.80 22.99 26.92 30.99 r an Elbov randed, 2 diameter	for W A B C D w Connector 20 mil wall of .805" to		190 200 210 220	Strand./ Compr. - #4 #3 #2	kcmil Solid/ Comp. 44 43 43 42 41 41	mm <sup>2</sup> 16.76 21.14 26.67 33.62	Bi- Metal           02500190           02500200           02500210           02500220	Copper 027002190 02702200 02702210 02702220
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cable .895	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comp	Diamete MIN. 14.61 16.13 20.45 22.61	er in mm MAX. 18.80 22.99 26.92 30.99 r an Elbov randed, 2 diameter	for W A B C D w Connector 20 mil wall of .805" to		190 200 210 220 230	Strand./ Compr. - #4 #3 #2 #1	kcmil           /         Solid/ Comp.           #4         #3           #2         #1           1/0         1/0	mm <sup>2</sup> 16.76 21.14 26.67 33.62 42.41	Bi- Metal           02500190           02500200           02500210           02500220           02500230	Copper 027002190 02702200 02702210 02702220 02702230
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cable .895	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comp le with an i 5" and cap 5240.	Diamete MIN. 14.61 16.13 20.45 22.61 Dumber for pressed/str insulation acitive tes	r an Elbov randed, 2 diameter t point is	for W A B C D v Connector 20 mil wall of .805" to 166LR-		190 200 210 220 230 240	Strand./ Compr. - #4 #3 #2 #1 1/0	kcmil           Solid/ Comp.           #4           #3           #2           #1           1/0           2/0	mm <sup>2</sup> 16.76 21.14 26.67 33.62 42.41 53.49	Bi- Metal           02500190           02500200           02500210           02500220           02500230           02500240	Copper 027002190 02702200 02702210 02702220 02702230 02702230
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cable .895	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comple le with an is 5" and cap 5240. Each	Diamete MIN. 14.61 16.13 20.45 22.61	er in mm MAX. 18.80 22.99 26.92 30.99 r an Elbov randed, 2 diameter t point is ins the fo	for W A B C D v Connector 20 mil wall of .805" to 166LR-		190 200 210 220 230 240 250	Strand./ Compr.           -           #4           #3           #2           #1           1/0           2/0	kcmil           Solid/ Comp.           #4           #3           #2           #1           1/0           2/0           3/0	mm <sup>2</sup> 16.76 21.14 26.67 33.62 42.41 53.49 67.43	Bi- Metal           02500190           02500200           02500210           02500220           02500230           02500230           02500240           02500250	Copper 027002190 02702200 02702210 02702220 02702230 02702230 02702240
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cab .895 CC5 1 1	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comp le with an it 5" and cap 5240. Elbow c Bi-meta	Diamete MIN. 14.61 16.13 20.45 22.61 Dumber for pressed/str insulation acitive tes kit conta	er in mm MAX. 18.80 22.99 26.92 30.99 r an Elbov randed, 2 diameter t point is <b>ins the fo</b> ousing	for W A B C D W Connector 20 mil wall of .805" to 166LR- bllowing: 166BLR-W 02500 <u>XXX</u>		190 200 210 220 230 240 250 260	Strand./ Compr. - #4 #3 #2 #1 1/0 2/0 3/0	kcmil           '         Solid/ Comp.           #4         #3           #2         #1           1/0         2/0           3/0         4/0	mm <sup>2</sup> 16.76 21.14 26.67 33.62 42.41 53.49 67.43 85.01	Bi- Metal           02500190           02500200           02500210           02500220           02500230           02500240           02500250           02500250           02500260	Copper 027002190 02702200 02702210 02702220 02702230 02702240 02702250 02702250
Diameter MIN. 0.575 0.635 0.805 0.890 Exa The for a cable .895 CC5 1	in Inches MAX. 0.740 0.905 1.060 1.220 ample: e ordering r a 1/0 comple with an it 5'' and cap 5240. Elbow c Bi-meta Probe	Diameter MIN. 14.61 16.13 20.45 22.61 Dumber for pressed/stri insulation acitive tes kit conta onnector h I compress	er in mm MAX. 18.80 22.99 26.92 30.99 r an Elbov randed, 2 diameter t point is <b>ins the fo</b> ousing	for W A B C D W Connector 20 mil wall of .805" to 166LR- bllowing: 166BLR-W	Ν	190 200 210 220 230 240 250 260	Strand./ Compr. - #4 #3 #2 #1 1/0 2/0 3/0	kcmil           '         Solid/ Comp.           #4         #3           #2         #1           1/0         2/0           3/0         4/0	mm <sup>2</sup> 16.76 21.14 26.67 33.62 42.41 53.49 67.43 85.01	Bi- Metal           02500190           02500200           02500210           02500220           02500230           02500240           02500250           02500250           02500260	Copper 027002190 02702200 02702210 02702220 02702230 02702240 02702250 02702250

