35kV	Power Cable Joints	35PCJ1W1X

Features:

- **Fully Rated 35kV Power Cable Joint**
- **Molded conductive shield provides a virtually indestructible ground shield for true deadfront construction**
- **Fully shielded, fully submersible molded rubber housing.**
- **Molded conductive insert precludes subjecting entrapped air to electrical stress**
- **Grounding eye provides a convenient point to connect a ground wire to the molded conductive shield, placing the molded shield at ground potential**
- **Cable entrance engages the insulation shielding of the cable eliminating the need for taping**

35PCJ1
Power Cable Joints

Applications:

Elastimold® 35PCJ1 Power Cable Joints provide a permanent, fully shielded, fully submersible, straight splice. Typically, the 35PCJ1 can be used on new installations to join cable runs or for repairs to broken cables on existing installations. The 35PCJ1 is for 35kV use rated per IEEE Standard 404. Installed either directly buried or in a vault, the pin and socket interlock of the 35PCJ1 power cable joint will withstand pulls of up to 500 lbs.

The 35PCJ1 is designed to accept cable insulation diameters of .850" to 2.120". The cable entrance of the housing provides electrical and water seal integrity. While designed for use on UD cable having concentric neutral and extruded insulation shielding, the 35PCJ1 will operating equally well on fabric tape shielded or lead-jacketed cables when used with the proper Elastimold® cable shield adapter or grounding device.

Ratings:

Meets IEEE Standard 404, Latest Revision

For 35kV Voltage Class:

200kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
69kV AC – Withstand
125kV DC – Withstand during Manufacture Test
100kV DC – During installation
30kV AC – Corona Extinction @ 3pC sensitivity

Continuous current rating equal to that of cable rating.

Short-time current rating equal to that of cable rating up to 35kA.

Shield design meets IEEE Standard 592, Latest Revision

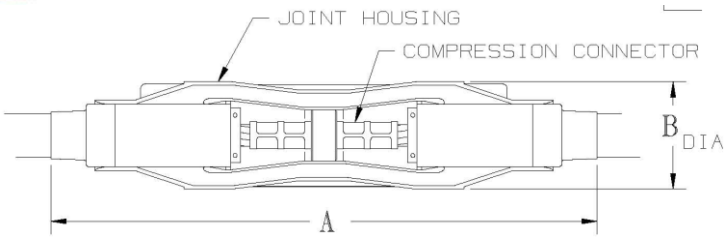
Cyclic Aging:
30 days at 60.6kV AC continuous, load current for 8 hours per day, providing 130°F conductor temperature.

Connectors meet ANSI C119.4 Class A and Class 3 ratings.

elastimold Product Specifications

Dimensional Data

Style 1 Part Number	A inches	B inches
35PCJ1HX	14 3/8"	2 7/16"
35PCJ1JX	14 3/8"	2 7/16"
35PCJ1KX	14 3/8"	2 7/16"
35PCJ1LX	14 3/8"	2 25/32"
35PCJ1LMX	14 3/8"	2 25/32"
35PCJ1MX	14 3/8"	2 25/32"
35PCJ1NX	15 3/4"	3 3/16"
35PCJ1PX	15 3/4"	3 3/16"
35PCJ1QX	15 3/4"	3 3/16"



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.

Step 3 (X)
Choose the proper compression lug code according to the conductor size from table 2. Insert code into catalog number.

Material Code

Alum.	1
CU	2

W Code

XXX Code

35PCJ1 [ ] [ ] [ ]

Cable Insulation Diameter in inches		Symbol for W
MIN.	MAX.	
0.850	1.050	H
0.980	1.180	J
1.090	1.310	K
1.180	1.465	L
1.280	1.430	LM
1.370	1.630	M
1.515	1.780	N
1.725	1.935	P
1.900	2.120	Q

Each kit contains the following:

1	Power Cable Joint Housing	35PCJ1-W
1	Connector	02500**XXX**
1	Tube, lubricant	82-08
1	Installation instruction	IS-0179

XXX Code	Conductor Size AWG or kcmil	
	Strand./ Compr.	Solid/ Comp.
180	#6	#5
190	#5	#4
200	#4	#3
210	#3	#2
220	#2	#1
230	#1	1/0
240	1/0	2/0
250	2/0	3/0
260	3/0	4/0
270	4/0	250
280	250	300
290	300	350
300	350	400
310	400	450/500
320	450	550
330	500	600
340	550	650
350	600	700
360	650	750
380	700/750	800/900
390	800	-
400	900	1000
410	1000	-
420	-	1250
440	1250	-

Example:
The ordering number for a power cable joint of style 1 with an insulation diameter of .995'' to 1.090'' with a #4 stranded aluminum conductor would be 35PCJ1J1200. To include sealing and grounding kit add 200ECS for neutral wire or 200ECS-G3 for copper line shield to the existing product number. Two kits are required for splice.

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