

|         |                      |                |            |
|---------|----------------------|----------------|------------|
| 15/25kV | 630A Deadbreak Elbow | w/o Test Point | K465LR-W0X |
|---------|----------------------|----------------|------------|



## Features:

- Fully rated 15/25kV, 630 Amp Deadbreak Elbow
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Can be easily connected or disconnected using standard hand tools and equipment in a de-energized state
- Optional accessories allow visible external separation, by-pass, isolation, dead-ending, grounding, and testing as well as adding taps, surge arrestors, and fault current indicators

## K465LR Elbow Connector (Without Test Point)

### Applications:

The Elastimold® K465LR (without test point) is designed to provide fully shielded, dead-front submersible cable connections to high-voltage apparatus. The K465LR can be used through 28kV with conductor range from 1/0 to 1250 kcmil for aluminum and copper conductors and insulation diameters from .640" to 1.935". When used on metallic tape shield or drain wire cable, an ECS cable seal grounding device is recommended. One end of the bushing interface conform to IEC-71 for using with standard 630 A European Switchgear, while the other end has an standard ANSI 386 Fig 11 bushing interface. This unique feature enable the K465LR/K466LR to use many standard Elastimold 600A accessories for loadbreak/deadbreak 200A tapping, grounding or isolation of the circuit.

### Ratings:

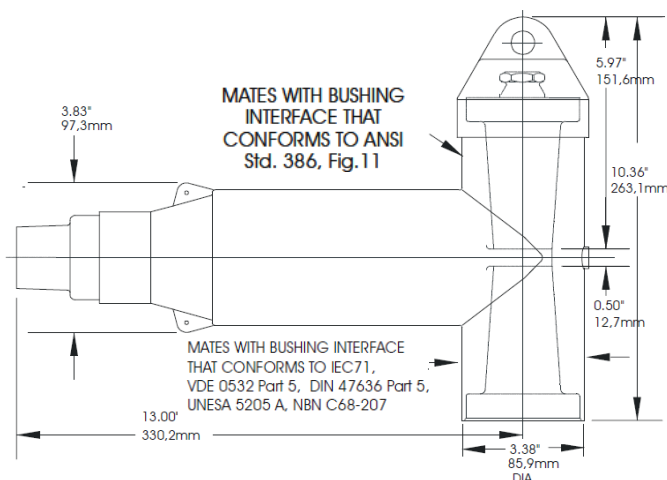
Exceeds ANSI/IEEE Standard 386, Latest Revision

#### For 25kV Voltage Class:

16.2kV Max Phase-to-Ground – Operating Voltage  
28kV Max Phase-to-Phase  
140kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)  
55kV AC – One minute withstand  
84kV DC – 15 minutes withstand  
21.5kV AC – Corona Extinction @ 3pC sensitivity  
630 Amp – Continuous  
1250 Amo – Max continuous current when equipment is also rated for 1250A

Short circuit: RMS symm. > 28 kA  
Peak asymm. > 70 kA

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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

Choose the proper connector material type and insert it into the catalog number.

### Step 3 (X)

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

|              |   |
|--------------|---|
| Universal Al | 0 |
| CU           | 2 |
| Bi-metal     | 5 |

K465LR

W Code

XXX Code

### Example:

The ordering number for a 600 Amp Elbow Connector for a 4/0 compressed, 175 mil wall cable with an insulation diameter of .865" to .950" is K465LR-H0270.

| Cable Insulation Diameter in inches |       | Cable Insulation Diameter in millimeters |        | Symbol for W |
|-------------------------------------|-------|------------------------------------------|--------|--------------|
| MIN.                                | MAX.  | MIN.                                     | MAX.   |              |
| 0.640                               | 0.820 | 16.256                                   | 20.828 | F            |
| 0.760                               | 0.950 | 19.304                                   | 24.130 | G            |
| 0.850                               | 1.050 | 21.590                                   | 26.670 | H            |
| 0.980                               | 1.180 | 24.892                                   | 29.972 | J            |
| 1.090                               | 1.310 | 27.686                                   | 33.274 | K            |
| 1.180                               | 1.465 | 29.972                                   | 37.211 | L            |
| 1.280                               | 1.430 | 32.512                                   | 36.322 | LM           |
| 1.370                               | 1.630 | 34.798                                   | 41.402 | M            |
| 1.515                               | 1.780 | 38.481                                   | 45.212 | N            |
| 1.725                               | 1.935 | 43.815                                   | 49.149 | P            |

Each kit contains the following:

|   |                          |          |
|---|--------------------------|----------|
| 1 | Elbow connector housing  | K465BLR  |
| 1 | Copper compression lug   | 03700XXX |
| 1 | Stud                     | 475-1    |
| 1 | Insulated Plug w/ Cap    | K650BIP  |
| 3 | Tube, lubricant          | 82-08    |
| 1 | Cable adapter            | 655CA-W  |
| 1 | Installation Instruction | IS-0312  |
| 1 | Installation Instruction | IS-0416  |
| 1 | Crimp chart              | CC-0050  |

| X Code | AWG or kcmil    |                | mm2     | Connector Only     |          |          |
|--------|-----------------|----------------|---------|--------------------|----------|----------|
|        | Strand./ Compr. | Solid/ Compact | Compact | Universal Aluminum | Copper   | Bi-metal |
| 210    | -               | 2              | -       | 03700210           | 03702210 | 04601210 |
| 220    | 2               | 1              | 35      | 03700220           | 03702220 | 04601220 |
| 230    | 1               | 1/0            | 50      | 03700230           | 03702230 | 04601230 |
| 240    | 1/0             | 2/0            | -       | 03700240           | 03702240 | 04601240 |
| 250    | 2/0             | 3/0            | 70      | 03700250           | 03702250 | 04601250 |
| 260    | 3/0             | 4/0            | 95      | 03700260           | 03702260 | 04601260 |
| 270    | 4/0             | 250            | 125     | 03700270           | 03702270 | 04601270 |
| 280    | 250             | 300            | -       | 03700280           | 03702280 | 04601280 |
| 290    | 300             | 350            | 150     | 03700290           | 03702290 | 04601290 |
| 300    | 350             | 400            | 185     | 03700300           | 03702300 | 04601300 |
| 310    | 400             | 450            | 240     | 03700310           | 03702310 | 04601310 |
| 320    | 450             | 500/550        | -       | 03700320           | 03702320 | 04601320 |
| 330    | 500             | 600            | 250/300 | 03700330           | 03702330 | 04601330 |
| 340    | 550             | 650            | -       | 03700340           | 03702340 | 04601340 |
| 350    | 600             | 700            | 400     | 03700350           | 03702350 | 04601350 |
| 360    | 650             | 750/800        | -       | 03700360           | 03702360 | 04601360 |
| 380    | 700/750         | 900            | -       | 03700380           | 03702380 | 04601380 |
| 390    | 800             | -              | 500     | 03700390           | 03702390 | 04601390 |
| 400    | 900             | 1000           | -       | 03700410           | 03702410 | 04601410 |
| 410    | 1000            | -              | -       | 03700410           | 03702410 | 04601410 |
| 420    | -               | 1250           | -       | 03700420           | 03702420 | 04601420 |
| 440    | 1250            | -              | -       | 03700440           | 03702440 | 04600440 |