

**For 5kV-35kV
Distribution Systems**

Loadbreak & Deadbreak
Separable Connectors

Cable Joints

Cable Terminations



Product Selection Guide



Product Guide PG-CA provides an easy-to-use, comprehensive listing of Elastimold products for 5kV thru 35kV underground power distribution systems. Included are separable elbow connectors, cable joints, terminations and other cable accessory components. This catalog incorporates information relative to product application, ratings and selection.

The Thomas & Betts Elastimold brand is recognized as the leading producer of premolded cable accessory components worldwide. Utilizing specially formulated materials with 100% peroxide-cured insulation and shielding, Elastimold products represent the state-of-the-art in premolded process technology. Durable, quality construction and non-degrading, high-reliability, maintenance-free performance is assured when specifying Elastimold products.

Elastimold's broad line of premolded products offers significant advantages over field-fabricated and other alternatives, including: 100% factory assurance testing prior to delivery and installation; simplified, single-piece construction with built-in insulating, shielding and sealing surfaces; ease of installation with no special skills or tools required; and compact, lightweight, durable designs for easy handling and application.

Separable Elbow Connectors and their related accessories are available in 200 Amp loadbreak, 200 Amp deadbreak and 600 Amp deadbreak styles. Rated for padmount, subsurface, vault, indoor, outdoor and other applications, units feature interchangeable interfaces which can be easily engaged or separated to provide a convenient method to connect or disconnect cable and equipment in a distribution system.

Cable Joints are available in permanently crimped or bolted (separable) connector styles. Permanently crimped units are rated the same as the cable they are connecting and are available for all applications including direct buried.

Cable Terminations are available in single-piece or modular designs. Rated for indoor, outdoor or padmount applications, units allow connection and transition from shielded underground cables to bare overhead conductors and live-front equipment.

Elastimold Special Component Services Group provides custom products tailored to specific application requirements. Please contact the factory for further information regarding this service.

For Surge Arresters and Fused Elbows, please see Elastimold Product Guides, PG-PC-E and PG-PC-H.

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Elastimold Separable Connectors, Cable Joints, Cable Terminators and other cable accessory products have been designed and tested per applicable portions of IEEE, ANSI and other industry standards including:

- IEEE 386™ Standard For Separable Connectors
- IEEE 404™ Standard For Cable Joints and Splices
- IEEE 48™ Standard For Cable Terminations

- IEEE 592™ Standard For Exposed Semiconducting Shields
- ANSI C119.4 Standard For Copper and Aluminum Conductor Connectors
- AEIC CS8 Standards For XLP and EPR Insulated Cables
- ICEA S-94-649-2004 and S-97-682-2000 Standard for Cables Rated 5,000 – 46,000 Volts

CABLE JOINTS AND TERMINATIONS RATINGS

Refer to the pages listed below for rating information:

- PCJ Cable Joints, page 22.

- Cable Terminations, page 24.

SEPARABLE CONNECTOR RATINGS

Table 1 shows voltage and current ratings which apply to all Separable Connectors including 200 AMP Loadbreak, 200 AMP Deadbreak and 600 Series Deadbreak products. Table 2 shows switching and fault close ratings which only apply to 200 AMP Loadbreak Connectors.

| TABLE 1 | 15kV Class Ratings | 25kV Class Ratings | 35kV Class Ratings |
|---|---|--------------------|--------------------|
| • OPERATING VOLTAGE Maximum line-to-ground (See Application Info Note 1) | 8.3kV | 15.2kV | 21.1kV |
| • BIL Impulse withstand 1.2 x 50 microsecond wave | 95kV | 125kV | 150kV |
| • WITHSTAND VOLTAGE AC One Minute DC Fifteen Minute | 34kV 53kV | 40kV 78kV | 50kV 103kV |
| • CORONA EXTINCTION LEVEL @ 3pC Sensitivity | 11kV | 19kV | 26kV |
| 200 AMP Products Continuous Current: Symmetrical Momentary Current: 600 Series Products Continuous Current: Symmetrical Momentary Current: | 200 AMP* 10kA sym, 10 cycle duration 600 and 900 AMP* 25kA sym, 10 cycle duration * Designed for 90° C maximum continuous operating temperature | | |

| TABLE 2 | LOADMAKE/LOADBREAK SWITCHING | FAULT CLOSE |
|---------------------------|---|---|
| 15kV Class Ratings | • 1Ø and 3Ø circuits 8.3kV line to ground, 14.4kV max. across open contacts. • 10 loadmake/break operations at 200 Amps max. with 70 to 80% lagging power factor. | 1 fault close operation at 8.3kV or 14.4kV; 10,000 Amps, rms, sym. 10 cycles (0.17 sec.) 1.3 max. asym factor applies to new or used mating parts (up to maximum designated switching operations.) |
| 25kV Class Ratings | • 1Ø and 3Ø circuits 15.2kV line to ground, 26.3kV max. across open contacts. • 10 loadmake/break operations at 200 Amps max. with 70 to 80% lagging power factor. | 1 fault close operation at 15.2kV or 26.3kV; 10,000 Amps, rms, sym. 10 cycles (0.17 sec.) 1.3 max. asym factor applies to new or used mating parts (up to maximum designated switching operations.) |
| 35kV Class Ratings | • 1Ø and 3Ø circuits 21.1kV line to ground, 36.6kV max. across open contacts. • 10 loadmake/break operations at 200 Amps max. with 70 to 80% lagging power factor. | 1 fault close operation at 21.1kV or 36.6kV; 10,000 Amps, rms, sym. 10 cycles (0.17 sec.) 1.3 max. asym factor applies to new or used mating parts (up to maximum designated switching operations.) |

APPLICATION INFORMATION:

1. Loadbreak connectors are designed and rated for use on grounded WYE systems. For application on ungrounded WYE or delta systems, the next higher voltage class product is recommended. Examples: 5kV ungrounded: use 15kV class products; 15kV ungrounded: use 25kV class products; 25kV ungrounded: use 35kV class products.
2. Products are designed and constructed for all applications including padmount, subsurface, vault, indoor, outdoor, direct sunlight, direct buried and continuously submerged in water.
3. Products are designed and rated for ambient temperatures of -40° C to +65° C. It is recommended that loadbreak connectors be hotstick operated at -20° C to +65° C ambient temperature range and at altitudes not exceeding 6000 feet.

Standard Interfaces for Separable Connectors, Components and Equipment Bushings

ANSI/IEEE Standard 386 defines the specific interface dimensions that 200 Amp and 600 Series elbows, inserts, junctions, equipment bushings and any mating components must conform to insure

interchangeability. The table below provides information concerning the types of interfaces supplied by Elastimold for various applications and is useful to assure proper matching of components.

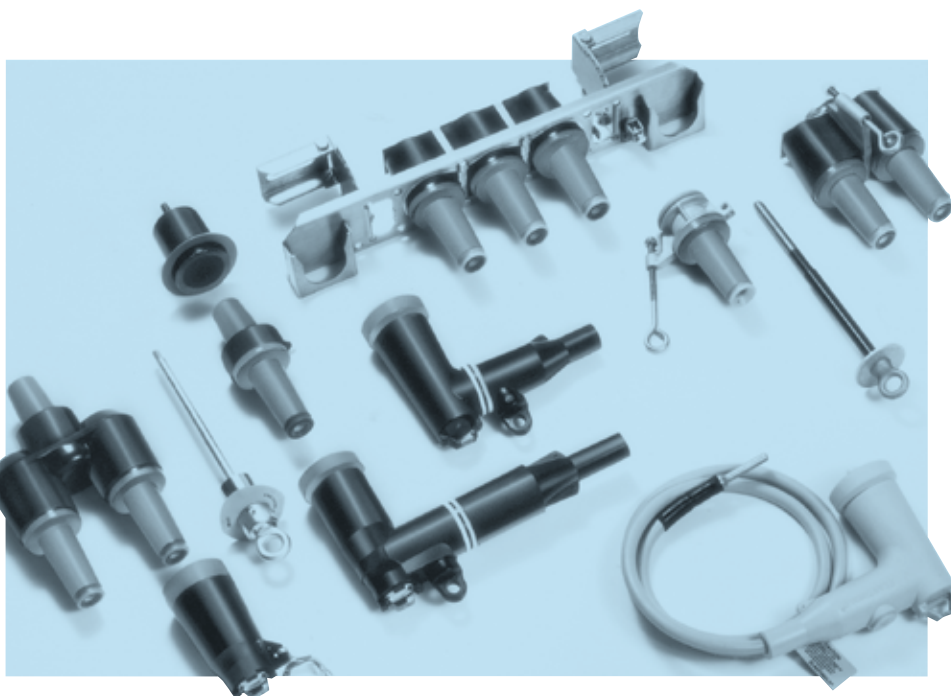
| | Bushing Interface | Voltage Class | Interface Description | Standard No. Figure No. |
|--|---|---------------------|---|---------------------------------------|
| | A 200 AMP DEEPWELL EQUIPMENT BUSHING | 15kV, 25kV and 35kV | 200 AMP Bushing Well Interface 8.3kV, 15.2kV, 21.1kV | A IEEE 386-2001 Fig. 3 |
| | B 200 AMP LOADBREAK INSERT | 15kV | 200 AMP Loadbreak 8.3kV and 8.3kV/14.4kV | B IEEE 386-2001 Fig. 5 |
| | C 200 AMP LOADBREAK INSERT | 25kV | 200 AMP Loadbreak 15.2kV and 15.2kV/26.3kV | C IEEE 386-2001 Fig. 7, Note 1 |
| | D 200 AMP LOADBREAK INSERT | 35kV | 200 AMP Loadbreak Interface No. 2 21.1kV and 21.1kV/36.6kV | D IEEE 386-2001 Fig. 7, Note 1 |
| | E 200 AMP DEADBREAK INSERT | 15kV and 25kV | 200 AMP Deadbreak 8.3kV and 15.2kV | E IEEE 386-2001 Fig. 4 |
| | F 600 SERIES EQUIPMENT BUSHING | 15kV and 25kV | 600 AMP Deadbreak Interface No.1 8.3kV and 15.2kV | F IEEE 386-2001 Fig.11 |
| | G 600 SERIES EQUIPMENT BUSHING | 35kV | 600 AMP Deadbreak Interface No.1 21.1kV | G IEEE 386-2001 Fig.13 |

NOTES:

1. Elastimold uses Fig. 7 interface for both 25 and 35kV applications.

200 Amp loadbreak connectors and accessories provide a convenient method to connect/disconnect cable and equipment on power distribution systems. Loadbreak elbows include provisions for energized operation using standard hotstick tools, allowing loadmake/break operation and a visible disconnect. Components can be isolated with insulated caps, plugs and parking bushings.

Optional accessories allow system grounding, testing, bypass, lightning surge protection and current limiting fusing. Additional connecting points and taps can be provided by use of junctions or feed-thrus.



RATINGS OVERVIEW

See page 2 for complete information including switching and fault close ratings.

CURRENT RATINGS

200A Continuous
10kA sym. 10 Cycles

VOLTAGE RATINGS

15kV Class

8.3kV Phase-to-Ground
14.4kV Phase-to-Phase
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

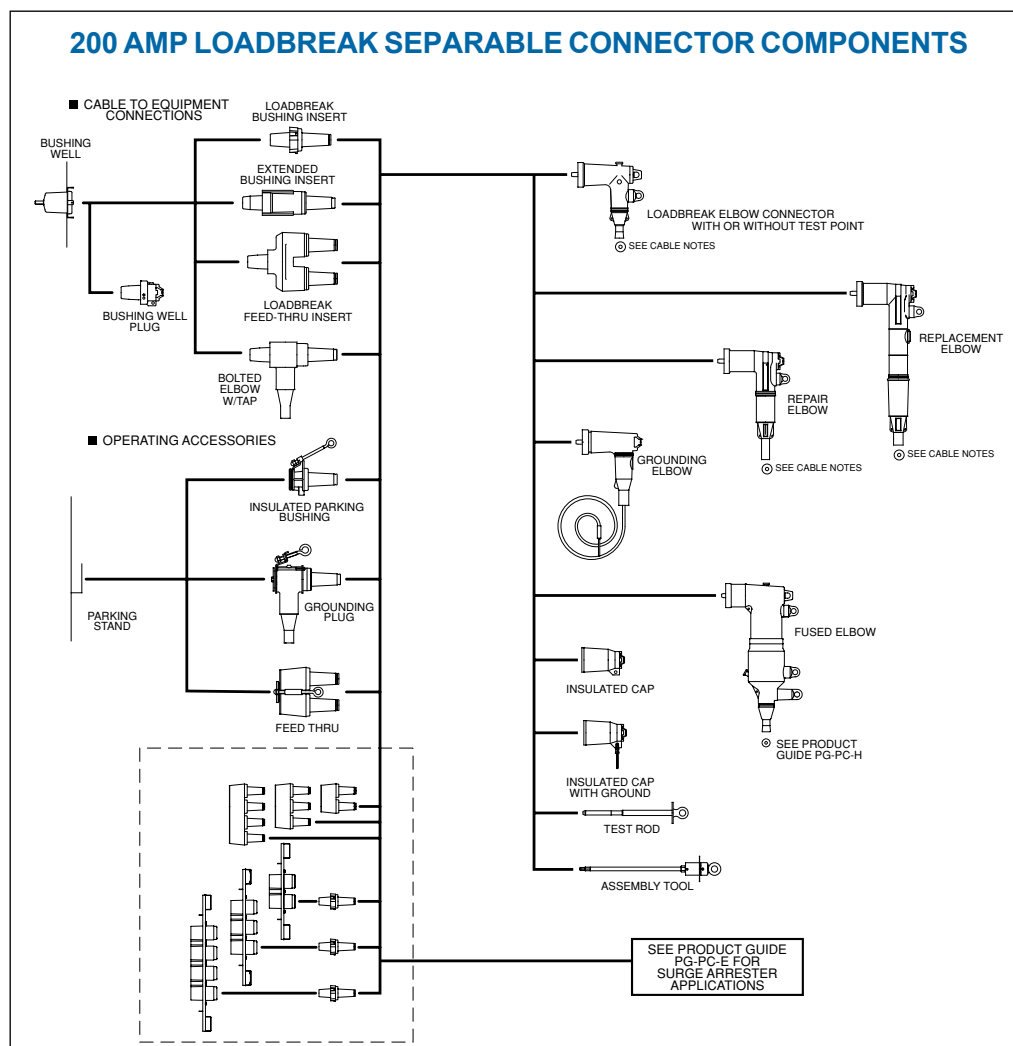
25kV Class

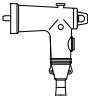
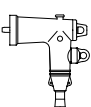
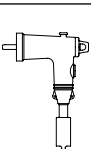
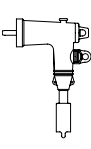
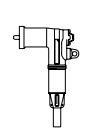
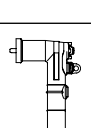
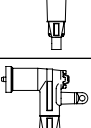
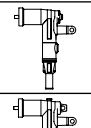
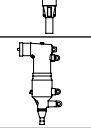
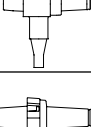
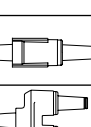
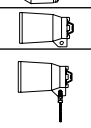
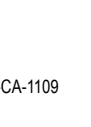





15.2kV Phase-to-Ground
26.3kV Phase-to-Phase
125kV BIL
40kV AC Withstand
78kV DC Withstand
19kV Corona Extinction















35kV Class

21.1kV Phase-to-Ground
36.6kV Phase-to-Phase
150kV BIL
50kV AC Withstand
103kV DC Withstand
26kV Corona Extinction

200 AMP LOADBREAK SEPARABLE CONNECTOR COMPONENTS



| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|---|---|------------------------------|---|---|
|  | Elbow Connector | 15kV 25kV 35kV | 165LR-W5X Use Tables W1 and X1 275LR-W5X Use Tables W16 and X1 375LR-W5X Use Tables W3 and X2 | N2,3,4,5 N2,3,4,5 N2,3,5 |
|  | Elbow Connector w/ Test Point | 15kV 25kV 35kV | 166LR-W5X Use Tables W1 and X1 276LR-W5X Use Tables W16 and X1 376LR-W5X Use Tables W3 and X2 | N2,3,4,5,24 N2,3,4,5,24 N2,3,5,24 |
|  | Jacket Seal Elbow Connector | 15kV 25kV | 165LRJS-W5X Use Tables W1 and X1 275LRJS-W5X Use Tables W16 and X1 | N2,19 N2,19 |
|  | Jacket Seal Elbow Connector w/ Test Point | 15kV 25kV | 166LRJS-W5X Use Tables W1 and X1 276LRJS-W5X Use Tables W16 and X1 | N2,19,24 N2,19,24 |
|  | Repair Elbow Connector | 15kV 25kV | 167ELR-W5X Use Tables W5 and X1 273ELR-W5X Use Tables W5 and X1 | N5,10,18 N5,10,18 |
|  | Repair Elbow Connector w/ Test Point | 15kV 25kV | 168ELR-W5X Use Tables W5 and X1 274ELR-W5X Use Tables W5 and X1 | N5,10,18,24 N5,10,18,24 |
|  | Replacement Elbow | 15kV 25kV | 167RLR-W5X Use Tables W4 and X1 273RLR-W5X Use Tables W2 and X1 | N5,11,13 N5,11,13 |
|  | Replacement Elbow w/ Test Point | 15kV 25kV | 168RLR-W5X Use Tables W4 and X1 274RLR-W5X Use Tables W2 and X1 | N5,11,13,24 N5,11,13,24 |
|  | Direct Test Elbow Connector | 15kV 25kV | 167DLR-W5X Use Tables W4 and X1 273DLR-W5X Use Tables W2 and X1 | N2,5,22 N2,5,22 |
|  | Direct Test Repair Elbow Connector | 15kV 25kV | 167DELR-W5X Use Tables W5 and X1 273DELR-W5X Use Tables W5 and X1 | N5,10,18,22 N5,10,18,22 |
|  | Direct Test Repair Elbow Connector w/ Test Point | 15kV 25kV | 168DELR-W5X Use Tables W5 and X1 274DELR-W5X Use Tables W5 and X1 | N5,10,18,22,24 N5,10,18,22,24 |
|  | Fused Elbow (Full Range Current Limiting) | 15kV 25kV | 168FLR H-W0X 274FLR H-W0X See Product Guide PG-PC-H | |
|  | Bolted Elbow w/ Tap | 15kV | 167LRT-W5X Use Tables W4 and X1 | N17 |
|  | Bushing Insert | 15kV 25kV 35kV 35kV | 1601A4 2701A4 3701A4 3701A3 | N4,8,20 N4,8,20 N6,21 N8,21 |
|  | Extended Bushing Insert | 15kV 25kV | 1601EA4 2701EA4 | N8,20 N8,20 |
|  | Feed-Thru Insert | 15kV 25kV 35kV | 1602A3R 2702A1 3702A1 | N16 N16 N6,16 |
|  | Insulated Cap | 15kV | 160DR | N9 |
|  | Insulated Cap w/ Ground | 15kV 15kV 25kV 35kV | 160DRG 167DRG 273DRG 375DRG | N9 N7,9 N7,9 N7,9 |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|---|---|--------------------------------------|---|---------------------------------------|
|  | Insulated Cap w/ Ground and Test Point | 15kV 25kV 35kV | 168DRG 274DRG 376DRG | N7 N7 N7 |
|  | Grounding Plug (1/0 AWG x 6' Ground Lead) | 15kV 25kV | 161GP 272GP | |
|  | Grounding Elbow (1/0 AWG x 6' Ground Lead) | 15kV 25/35kV | 160GLR 370GLR | N12 |
|  | Feed-Thru | 15kV 25kV 35kV 35kV | 164FT 274FT 371FT 373FT | N6 |
|  | Feed-Thru Vertical | 15kV 25kV 35kV | 164FTV 274FTV 373FTV | |
|  | Adjustable Bracket 2-point Feed-Thru | 15kV 25kV 35kV | 164FT2-AB 274FT2-AB 373FT2-AB | N23 N23 N23 |
|  | Adjustable Bracket 3-point Feed-Thru | 15kV 25kV 35kV | 164FT3-AB 274FT3-AB 373FT3-AB | N23 N23 N23 |
|  | Adjustable Bracket 4-point Feed-Thru | 15kV 25kV 35kV | 164FT4-AB 274FT4-AB 373FT4-AB | N23 N23 N23 |
|  | Feed-Thru Well | 15/25kV | K1601WFT | |
|  | Feed-Thru Well Vertical | 15/25kV | K1601WFTV | |
|  | Insulated Parking Bushing | 15kV 25kV 35kV 15kV 25kV | 161SOP 272SOP 372SOP 164SOP 274SOP | N20 N20 N21 N20,23 N20,23 |
|  | Test Rod | ALL | 370TR | |
|  | Bushing Well Plug | 15/25kV 35kV | 276BWP M276BWP | |
|  | Assembly Tool | ALL | 200AT | N8 |

N1. Copper lug for use on COPPER CONDUCTOR ONLY.

N2. W5X indicates that the part number includes 02500X long bi-metal compression lug as standard. For an all-copper lug, replace W5X with W2X in Table X1 to specify the all-copper 02702X lug.

N3. Also available as housing only. Specify: 165BLR-W; 275BLR-W; 375BLR-W; 166BLR-W; 276BLR-W; 376BLR-W.

N4. Also available as elbow/insert combination. Specify: 165A4-WX; 275A4-WX; 166A4-WX; 276A4-WX.

N5. Also available with 200ECS jacket seal included. Add - "S" suffix to part number.

N6. Rated for single-phase applications only.

N7. Equipped with insulated cuff.

N8. Includes internal torquing feature using 200AT Assembly Tool.

N9. Also available without probe. Specify "A" suffix - Example: 273DRGA.

N10. Repair elbow has extended length contact and elbow housing resulting in a net gain of 3-1/4" in length.

N11. Replacement elbow has extended length contact and elbow housing resulting in a net gain of 8-7/8" in length.

N12. Rated for 25kV thru 35kV applications.

N13. Includes long bi-metal contact 00400X.

N14. 160CA Cable Size Adapter can only be used with elbow part numbers 165LR/166LR C size only.

N16. Fully rotatable for 360° positioning. Includes bail assembly to secure feed-thru insert to bushing well.

N17. Includes 02800X bi-metal contact.

N18. Includes 02509X long bi-metal contact.

N19. Includes built-in jacket seal. Also available as housing only — specify: 165BLRJS-W, 166BLRJS-W, 275BLRJS-W or 276LRJS-W. Also available as elbow/insert combination — specify: 165JSA4-W5X, 166JSA4-W5X, 275JSA4-W5X or 276JSA4-W5X.

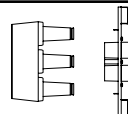
N20. Includes a yellow seating indicator and vent ring.

N21. Includes a black vent ring.

N22. Direct Test Connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and Hot-line Stick provides a means for direct conductor voltage testing.

N23. With stainless steel bracket.

N24. Test Point Cap Cat# 156-7



**CONTACTS, PROBES, PLUGS,
CABLE ADAPTERS AND JUNCTIONS
CONTINUED ON PAGE 7.**

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

RATINGS OVERVIEW

See page 2 for complete information including switching and fault close ratings.

CURRENT RATINGS

200A Continuous
10kA sym. 10 Cycles

VOLTAGE RATINGS

15kV Class

8.3kV Phase-to-Ground
14.4kV Phase-to-Phase
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

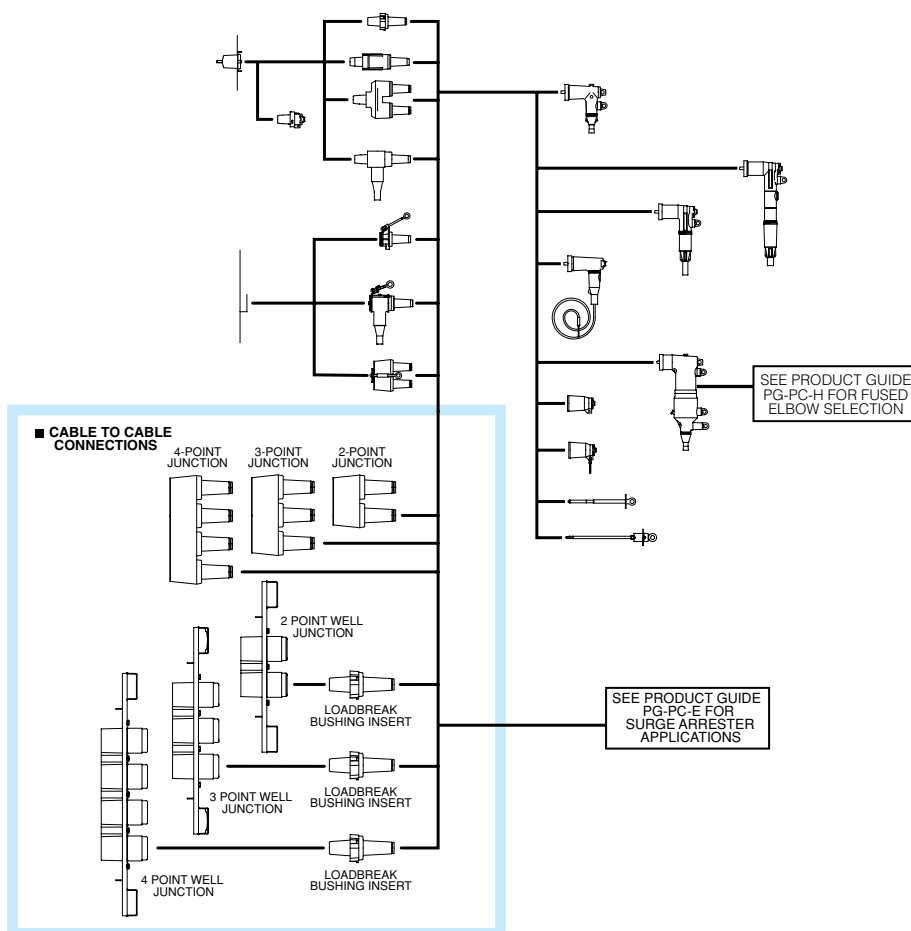
25kV Class





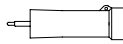


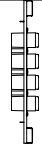

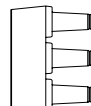
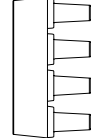
15.2kV Phase-to-Ground
26.3kV Phase-to-Phase
125kV BIL
40kV AC Withstand
78kV DC Withstand
19kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground
36.6kV Phase-to-Phase
150kV BIL
50kV AC Withstand
103kV DC Withstand
26kV Corona Extinction

200 AMP LOADBREAK SEPARABLE CONNECTOR COMPONENTS



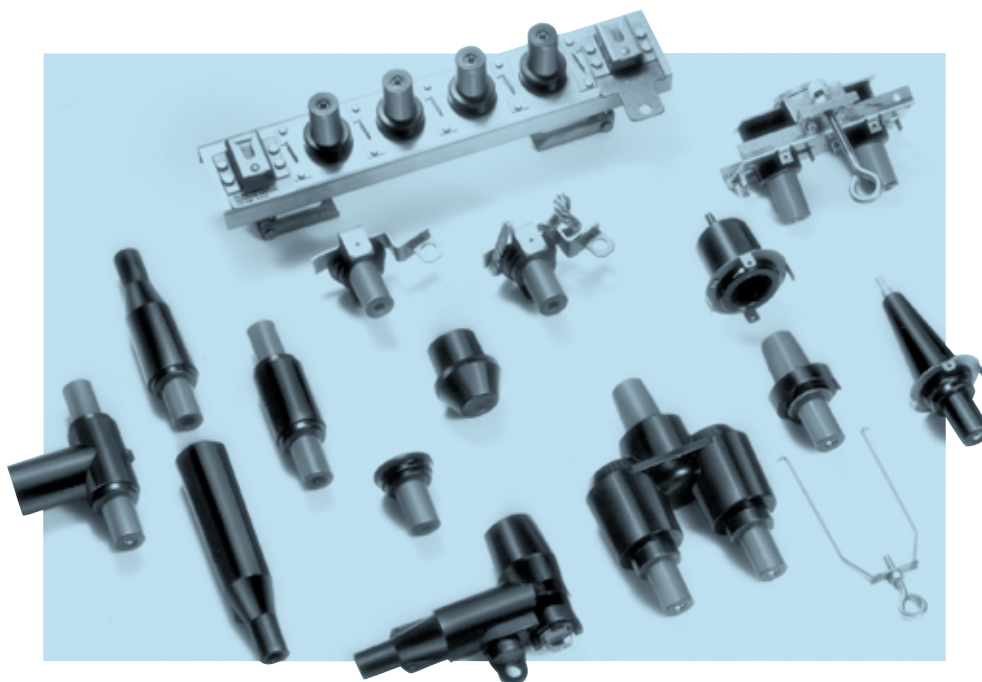
| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|---|---|--|---|----------------------------|
|  | Contacts: Long Bi-Metal ELR Bi-Metal Copper LRT Contact RLR Contact | ALL 15/25kV ALL 15kV 15/25kV | Use Table X1 02500X 02509X 02702X 02800X 00400X | N1 N2 N3 |
|  | Elbow Probe | 15kV 25kV 35kV | 166LRF 274LRF 375LRF | |
|  | Elbow Cable Entrance Insulating Plug | ALL | 10EPW Use Table W6 | |
|  | Cable Size Adapter | 15kV | 160CA-W Use Table W6 EB-FA Only | N4 |
|  | Direct Voltage Test Meter Adapter for: | ALL | | |
| | <i>HD Electric Meters</i> | | 200TC-1 | N14 |
| | <i>Ross Meters</i> | | 200TC-2 | N14 |
| | <i>Chance Meters</i> | | 200TC-4 | N14 |
|  | 2-Way Well Junction w/ s.s. Bracket | 15/25kV | K1601WJ2 | N6 |
| | 2-Way Well Junction w/ "U" Straps | 15/25kV | K1601WJ2-5 | N5, 6, 11 |
|  | 3-Way Well Junction w/ s.s. Bracket | 15/25kV | K1601WJ3 | N6 |
| | 3-Way Well Junction w/ "U" Straps | 15/25kV | K1601WJ3-5 | N5, 6, 12 |
|  | 4-Way Well Junction w/ s.s. Bracket | 15/25kV | K1601WJ4 | N6 |
| | 4-Way Well Junction w/ "U" Straps | 15/25kV | K1601WJ4-5 | N5, 6, 13 |
|  | 2-Point Junction with/stainless steel bracket | 15kV 25kV 35kV | 164J2 274J2 373J2 | N7 N7 N7 |
| | 2-Point Junction w/"U"-straps | 15kV 25kV 35kV | 164J2-5 274J2-5 373J2-5 | N5, 8 N5, 11 N5, 11 |
|  | 3-Point Junction with/stainless steel bracket | 15kV 25kV 35kV | 164J3 274J3 373J3 | N7 N7 N7 |
| | 3-Point Junction w/"U"-straps | 15kV 25kV 35kV | 164J3-5 274J3-5 373J3-5 | N5, 9 N5, 12 N5, 12 |
|  | 4-Point Junction with/stainless steel bracket | 15kV 25kV 35kV | 164J4 274J4 373J4 | N7 N7 N7 |
| | 4-Point Junction w/"U"-straps | 15kV 25kV 35kV | 164J4-5 274J4-5 373J4-5 | N5, 10 N5, 13 N5, 13 |

- N1. Repair elbow has extended length contact and elbow housing resulting in a net gain of 3¼" in length.
- N2. Copper lug for use on COPPER CONDUCTOR ONLY.
- N3. Replacement elbow has extended length contact and elbow housing resulting in a net gain of 8% in length.
- N4. 160CA Cable Size Adapter can only be used with elbow part numbers 165LR/166LR C size only.
- N5. Also available as rubber only, without straps. Specify suffix "-4" in place of "-5" in the part number.
- N6. Supplied with replaceable stud. Replacement stud available separately. Specify 1000-150.
- N7. Hardware packages, consisting of brackets & straps only, may be ordered separately by specifying "-6" in the part number. Example 164J4-6
- N8. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 1601US-J2.
- N9. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 1601US-J3.
- N10. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 1601US-J4.
- N11. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 271-68.
- N12. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 271-61.
- N13. Hardware package, consists of "U"-straps and back plate only, may be ordered separately by specifying 271-70.
- N14. For use with Direct Test Connectors.

200 Amp deadbreak connectors and accessories provide a quick disconnect feature for cable and equipment connections on power distribution systems.

All deadbreak connectors must be DE-ENERGIZED before operating and must be mechanically secured with bails when connected. Components can be isolated with insulated caps, plugs and parking bushings.

All deadbreak elbows are equipped with test points as standard. Optional accessories allow system grounding, bypass and lightning surge protection. Additional connecting points and taps can be provided by use of junctions or feed-thrus.



RATINGS OVERVIEW

See page 2 for complete information.

CURRENT RATINGS

200A Continuous
10kA sym. 10 Cycles

VOLTAGE RATINGS

15kV Class

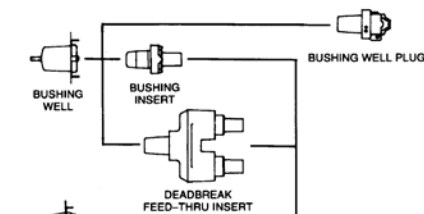
8.3kV Phase-to-Ground
14.4kV Phase-to-Phase
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

25kV Class

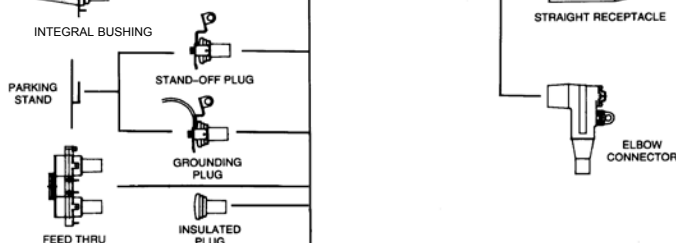
15.2kV Phase-to-Ground
26.3kV Phase-to-Phase
125kV BIL
40kV AC Withstand
78kV DC Withstand
19kV Corona Extinction

200 AMP DEADBREAK SEPARABLE CONNECTOR COMPONENTS

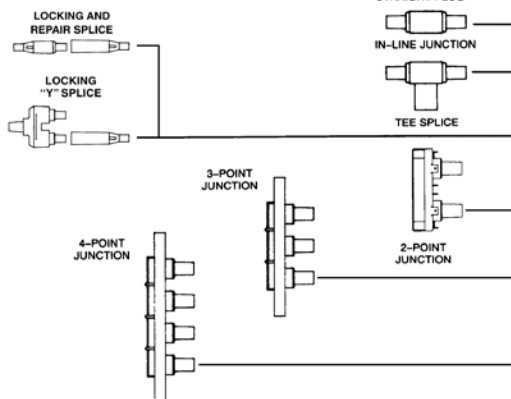
■ CABLE TO EQUIPMENT



■ OPERATING ACCESSORIES



■ CABLE TO CABLE CONNECTIONS



EXCEPT FOR LOCKING SPLICES ALL 200 A DEADBREAK PRODUCTS MUST BE MECHANICALLY SECURED WITH A BAIL WHEN CONNECTED

SEE PRODUCT GUIDE PG-PC-E FOR SURGE ARRESTERS APPLICATIONS

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|----------------------------------|------------------|--|--------------------------------|
| | Elbow Connector w/ Test Point | 15/25kV | 156LR-W5X Use Tables W4 and X1 | N1,2 |
| | Direct Test Elbow Connector | 15/25kV | 156DLR-W5X Use Tables W4 and X1 | N1,2,22 |
| | Bail Assembly for 156LR Elbow | 15/25kV | 150BA | |
| | Bushing Insert | 15/25kV | K1501A1 | N3 |
| | Feed-thru Insert | 15/25kV | K1502A1 | N3,4 |
| | Insulated Plug | 15/25kV | K150DP | N3 |
| | Insulated Cap | 15/25kV | K150DR | N3 |
| | Insulated Parking Bushing | 15/25kV | K151SOP | N3 |
| | Grounding Plug | 15/25kV | 151GP | N3 |
| | Feed-Thru | 15/25kV | K1501FT | N3,6 |
| | 2-Point Junction | 15/25kV | K1501J2-U | N3,6 |
| | 3-Point Junction | 15/25kV | K1501J3-U | N3,6 |
| | 4-Point Junction | 15/25kV | K1501J4-U | N3,6 |
| | Elbow Probe | 15/25kV | 156LRF | |
| | Straight Receptacle | 15/25kV | K151SR-W0X Use Tables W1 and X1 | N3,12,13, 17,18 |
| | Straight Plug | 15/25kV | K151SP-W0X Use Tables W1 and X1 | N3,12,13, 19 |
| | Tee Splice | 15/25kV | K150T | N3 |
| | In-Line Junction | 15/25kV | K150S | N3 |
| | Locking Splice/ Repair Splice | 15/25kV | K151LS-W0X Use Tables W1A and X1 | N8,9,13, 15,16,17, 20,23 |
| | Locking "Y" Splice | 15/25kV | K151LY-W0X Use Tables W1A and X1 | N8,9,13, 15,17,21 |
| | BAIL | 15/25kV | 150TB1 | N5 |
| | BAIL | 15/25kV | 150TB2 | N5 |
| | BAIL | 15/25kV | 150TB3 | N5 |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|---|--------------------|--|-------|
| | BAIL | 15/25kV | 150TB4 | N5 |
| | BAIL | 15/25kV | 150TB5 | N5 |
| | Contacts: Long Bi-Metal Copper | 15/25kV 15/25kV | 02500X 02702X | N7 |
| | Elbow Cable Entrance Insulating Plug | 15/25kV | 10EP-W Use Table W6 | N10 |
| | Cable Entrance Insulating Plug | 15/25kV | 152EA-W Use Table W6 | N11 |
| | Cable Size Adapter | 15/25KV | 160CA-W Use Table W6 EB-FA Only | N14 |

N1. Includes bail assembly.

N2. W5X indicates that the part number includes a 02500X bi-metal compression lug, which is rated for either aluminum or copper conductor, as standard. For an all-copper lug, replace W5X with W2X in Table X1 to specify the all-copper 02702X lug.

N3. Bails are required but not included. Order separately. Consult factory for bails not listed for a specific application.

N4. Fully rotatable for 360° positioning. Includes bail assembly to secure feed-thru insert to bushing well. Elbows bail assemblies are required but not included with the feed-thru insert.

N5. Refer to factory for application details.

N6. Center-to-center spacing equals 4 inches.

N7. Copper lug for copper cable only.

N8. To order cable legs for different cable sizes, list each leg size "W" and "X". Example: K151LY-A1240-A1240-B1220. See Tables W1 and X1 for sizes.

N9. To order locking contacts for K151LS and K151LY, order 01401X (Al) or 01402X (Cu) for plug contact. Order 01301X (Al) or 01302X (Cu) for receptacle. See Table X1 for sizes.

N10. For use with 156LR elbows.

N11. For use with K151SR, K151SP, K151LS, K151LY receptacles, plugs and splices.

N12. Also available as housing only. Specify K151BSP-W or K151BSR-W.

N13. Also available in EB-FA sizes per table W6 by using 160CA cable adapter with C size plugs & receptacles.

N14. 160CA cable adapter can only be used with C size plugs & receptacles.

N15. Bails are not required for locking splices.

N16. When used as a repair splice, the assembled length allows 4" for cable replacement/repair.

N17. Straight receptacles are also available with test point. Specify K152SR-W0X part number.

N18. W0X indicates that the part number includes a 01500X universal aluminum compression lug, which is rated for either aluminum or copper, as standard. For an all-copper lug, replace W0X with W2X in Table X1 to specify the all-copper 01502X lug.

N19. W0X indicates that the part number includes a 01600X universal aluminum compression lug, which is rated for either aluminum or copper, as standard. For an all-copper lug, replace W0X with W2X in Table X1 to specify the all-copper 01602X lug.

N20. W0X indicates that the part number includes a 01400X universal aluminum compression lug, which is rated for either aluminum or copper, as standard. For an all-copper lug, replace W0X with W2X in Table X1 to specify the all-copper 01402X lug.

N21. W0X indicates that the part number includes a 01300X universal aluminum compression lug, which is rated for either aluminum or copper, as standard. For an all-copper lug, replace W0X with W2X in Table X1 to specify the all-copper 01302X lug.

N22. Direct Test Connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and Hot-line Stick provides a means for direct conductor voltage testing. See page 7 for meter adapters.

N23. Gains approximately 4" of repair length.

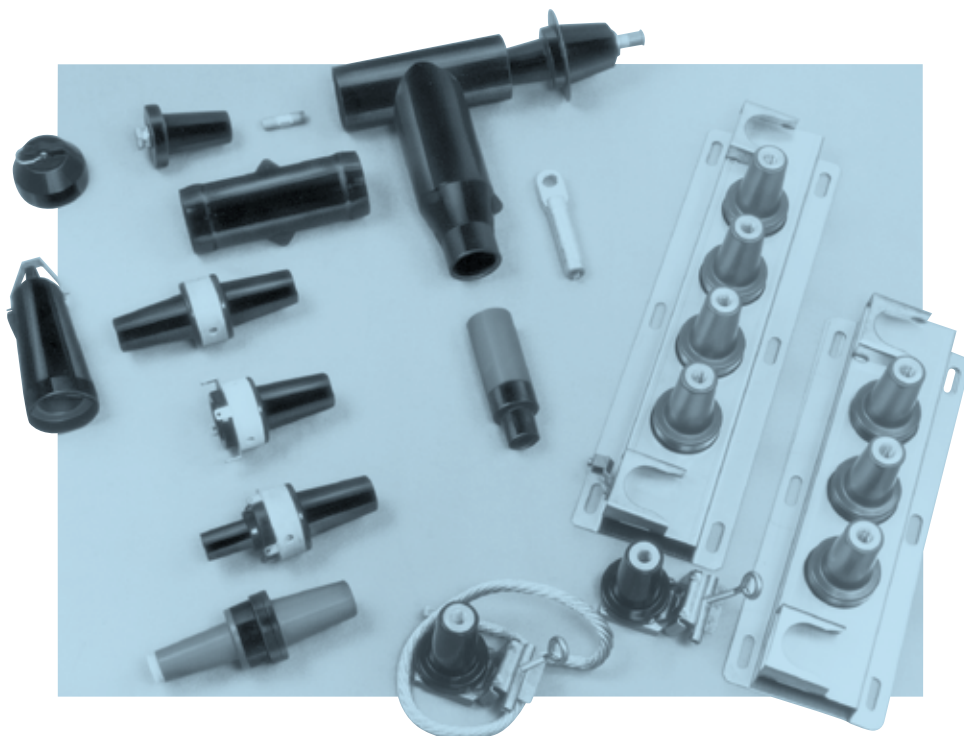
Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

600 Series deadbreak elbows, straight receptacles, junctions, vault stretchers and accessories are used to connect equipment and cable on primary feeder and network circuits. Designs accommodate large conductors and feature bolted connections and deadfront modular construction for maximum reliability, performance and versatility.

DE-ENERGIZED connectors can be quickly and easily connected and disconnected using standard hand tools and equipment in accordance with accepted operating practices. Optional accessories allow visible external separation, by-pass, isolation, dead-ending, grounding, and testing as well as adding taps, surge arresters and circuit protection.

Hotstick operable and separable joint systems are shown on pages 14 thru 19.



RATINGS OVERVIEW

See page 2 for complete information.

CURRENT RATINGS

(Prefixes: 650, K650, K655, K656, 750, 755, 756 & 03700)

600 Amp Continuous
25kA sym., 10 cycles

(Prefixes 675, K675, K676, 775, 776 & 03702)

900 Amp Continuous
25kA sym., 10 cycles

NOTE: 900 Amp ratings require copper cable and copper current-carrying components.

VOLTAGE RATINGS

15/25kV Class (5kV thru 28kV)

16.2kV Phase-to-Ground

28kV Phase-to-Phase

140kV BIL

45kV AC Withstand

84kV DC Withstand

21.5kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground

36.6kV Phase-to-Phase

150kV BIL

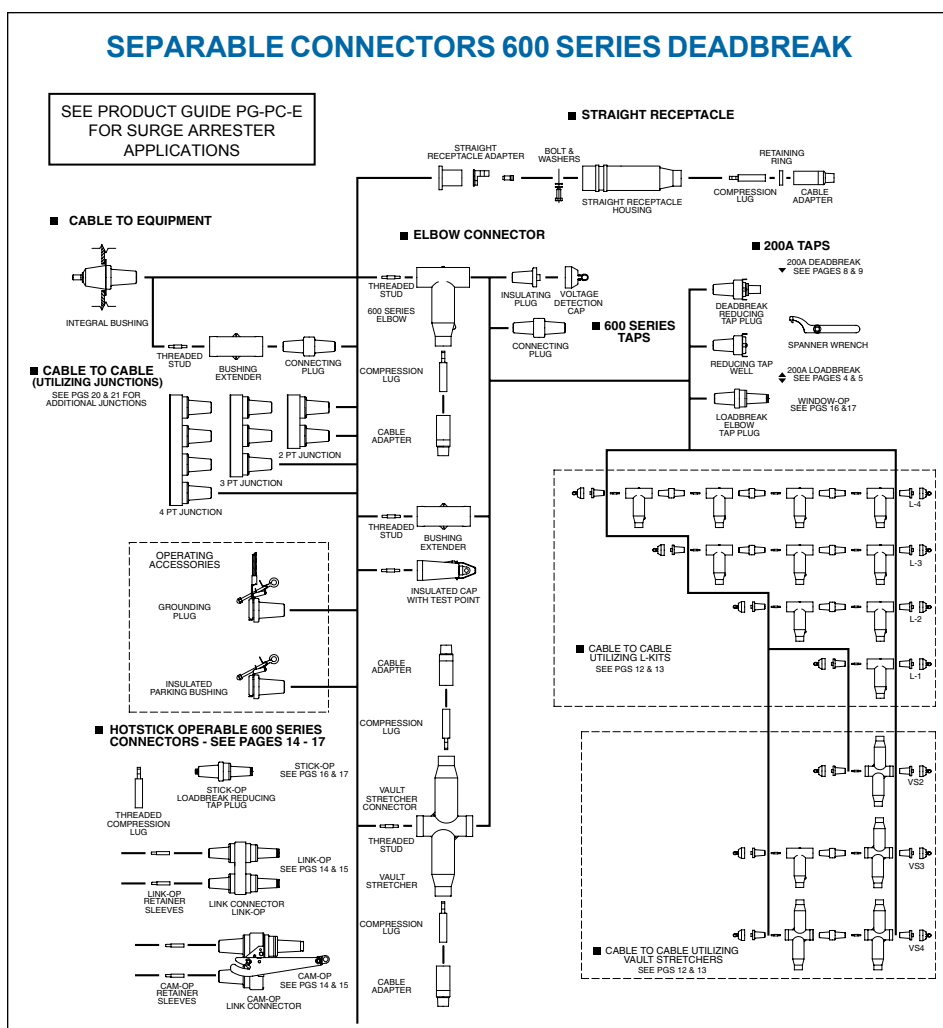
50kV AC Withstand

103kV DC Withstand

26kV Corona Extinction

Note: Elastimold has increased the IEEE Standard Production and Design Test levels for 25kV Class products to include 27kV and 28kV systems.

SEPARABLE CONNECTORS 600 SERIES DEADBREAK



| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|--|------------------|---|--------------------------|
| | 600 Series Elbow (w/ Insul. Plug, Cap, Stud, Lug and Cable Adapter) | 15/25kV 35kV | K655LR-W0X Use Tables W7 and X6 755LR-W0X Use Tables W9 and X6 | N1,2,12 N1,2,12 |
| | 600 Series Direct Test Elbow (w/ Insul. Plug, Cap, Stud, Lug and Cable Adapter) | 15/25kV 35kV | K655DLR-W0X 755DLR-W0X | N1,2,12,14 N1,2,12,14 |
| | 600 Series Elbow w/ Test Point (w/ Insul. Plug, Cap, Stud, Lug and Cable Adapter) | 15/25kV 35kV | K656LR-W0X Use Tables W7 and X6 756LR-W0X Use Tables W9 and X6 | N1,2,12 N1,2,12 |
| | 600 Series Direct Test Elbow w/ Test Point (w/ Insul. Plug, Cap, Stud, Lug and Cable Adapter) | 15/25kV 35kV | K656DLR-W0X Use Tables W7 and X6 756DLR-W0X Use Tables W9 and X6 | N1,2,12,14 N1,2,12,14 |
| | 600 Series Elbow Housing only (w/ Stud) | 15/25kV 35kV | K655BLR 755BLR | N1,3 N1,3 |
| | 600 Series Elbow w/ Test Point Housing only (w/ Stud) | 15/25kV 35kV | K656BLR 756BLR | N1,3 N1,3 |
| | 600 Series Replacement Elbow Housing only w/o Test Point | 15/25kV | K655BRLR | N16 |
| | 600 Series Replacement Elbow Housing only w/ Test Point | 15/25kV | K656BRLR | N16 |
| | 600 Series Straight Receptacle (w/ Cable Adapter, Lug & Retaining Ring) | 15/25kV | K655SR-W0X Use Tables W7 and X6 | N1,2,11 |
| | 600 Series Direct Test Straight Receptacle Elbow | 15/25kV | K655DSR-W0X Use Tables W7 and X6 | N1,2,11,14 |
| | 600 Series Straight Receptacle Housing (Lug & Cable Adapter not included) | 15/25kV | K655BSR | N1,11 |
| | Straight Receptacle Adapter | 15/25kV | K650SRA | N1,4 |
| | 600 Series Vault Stretcher (Housing only w/ Stud) | 15/25kV 35kV | K655BVS 755BVS | N1,9 N1,9 |
| | Cable Size Adapter | 15/25kV 35kV | 655CA-W Use Table W7 755CA-W Use Table W9 | |
| | Compression Lug | ALL ALL | 03700X Use Table X6 03702X Use Table X6 | N5 N6 |
| | 600 Series Elbow & Vault Stretcher Size Sensitive Kit (Cable Adapter & Lug) | 15/25kV 35kV | 655CK-W0X Use Tables W7 and X6 755CK-W0X Use Tables W9 and X6 | N2 N2 |
| | Adapter Retaining Ring | ALL | 650ARR-X Use Table X6 | |
| | 600 Series Straight Receptacle Size Sensitive Kit (Cable Adapter, Retaining Ring & Lug) | 15/25kV | 655CK-W0X-ARR Use Tables W7 and X6 | N2 |
| | Bushing Extender (w/ Stud) | 15/25kV 35kV | K655BE 755BE | N1,3 N1,3 |
| | Insulated Cap w/ Test Point (w/ Stud) | 15/25kV | K656DR | N3,7 |
| | Insulated Cap w/ Test Point (w/ Stud & Ground) | 15/25kV | K656DRG | N3,7 |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|--|----------------------|--|--|
| | Insulating Plug (w/ Cap) | 15/25kV 35kV | K650BIP 750BIP | N1,7,8 N1,7,8 |
| | Grounding Plug (Ground Lead 2/0 AWG x 30") | 15/25kV 35kV | 650GP 750GP | N1,7,8 N1,7,8 |
| | Insulated Parking Bushing | 15/25kV 35kV | K650SOP 750SOP | N7,8 N7,8 |
| | Connecting Plug | 15/25kV 35kV | K650CP K651CP 750CP | N1,7,8,9,13 N1,7,8,10 N1,7,8,10 |
| | Deadbreak Reducing Tap Plug | 15/25kV | K650RTP | N1,7,8,9 |
| | Reducing Tap Well | 15/25kV | K650RTW | N1,7,8,9 |
| | Loadbreak Elbow Tap Plug | 15kV 25kV 35kV | 650ETP K650ETP 750ETP | N1,7,8,10,12 N1,7,8,10,12 N1,7,8,10,12 |
| | Vault Stretcher Threaded Stud | 15/25kV 35kV | 650VSA 750VSA | N1 N1 |
| | 600 Series Elbow Threaded Stud | 15/25kV 35kV | 650SA 750SA | N1 N1 |
| | Assembly Tool (Window-Op) | ALL | 600ATM | N12 |
| | Spanner Wrench | ALL | 600SW | N9 |
| | Direct Voltage Test Meter Adapter for: <i>HD Electric Meters</i> <i>Ross Meters</i> <i>Chance Meters</i> | ALL | 200TC-1 200TC-2 200TC-4 | N14 N14 N14 |

N1. For 900 Amp ratings, substitute 675 for 650 and 655; 676 for 656; K671 for K651; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the part number. The 900 Amp rating requires copper current-carrying connector components and copper conductor cable.

N2. Add suffix symbol from page 29 to include cable shield grounding kit and/or cable jacket sealing kit.

N3. Available without the stud by adding "N" to the part number.

N4. Straight Receptacle Adapter is used to connect Straight Receptacles K655YBSR and K655YSR-W0X (Pg.19) to equipment bushings.

N5. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.

N6. Copper lug for use on COPPER CONDUCTOR ONLY. DO NOT substitute threaded 03602X lug.

N7. Available with the stud factory-assembled by adding "SP" to the part number. 675ETP, K675ETP and 775ETP are available as -SP only. The stud is not field removable.

N8. Available with a loose stud by adding suffix "S" to the part number.

N9. 600SW spanner wrench is recommended for installation of K650CP connecting plug, deadbreak reducing tap plugs and reducing tap wells.

N10. Use 600ATM Assembly Tool.

N11. 600 Series Elbows and Straight Receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the part number.

N12. See page 17 for Window-Op Connector Kit.

N13. Superseded by K651CP.

N14. Direct Test Connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and Hot-line Stick; provides a means for direct conductor voltage testing.

N15. With stainless steel bracket.

N16. Replacement Elbow includes an I-Adapter, and Straight Receptacle, resulting in a net gain of 20".

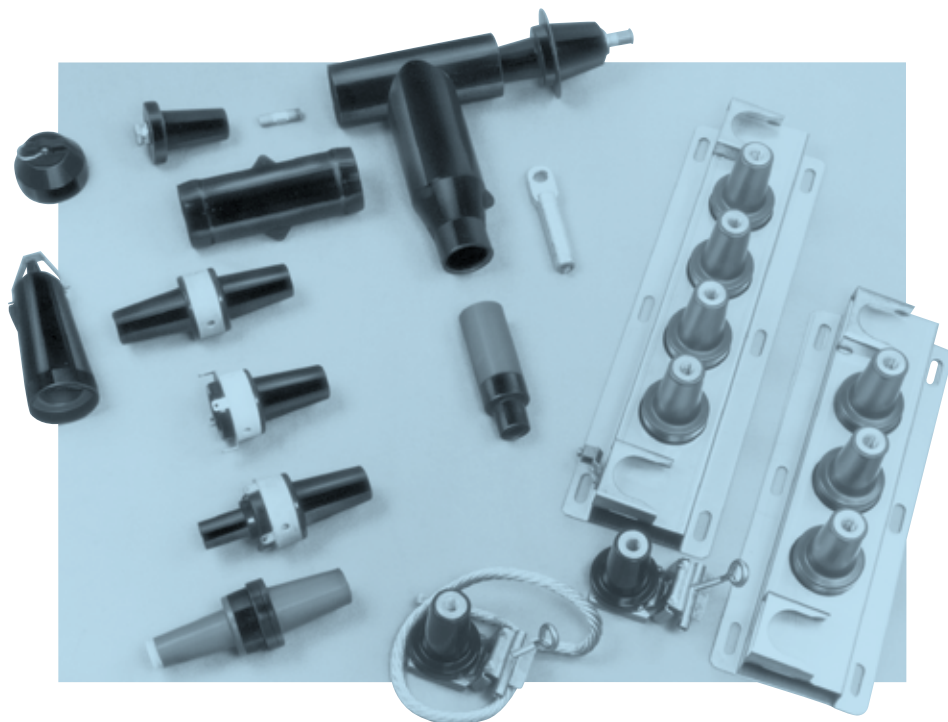
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Hotstick operable and separable joint systems are shown on pages 14 thru 19.



RATINGS OVERVIEW

See page 2 for complete information.

CURRENT RATINGS

(Prefixes: 650, K650, K655, K656, 750, 755, 756 & 03700)

600 Amp Continuous
25kA sym., 10 cycles

(Prefixes 675, K675, K676, 775, 776 & 03702)

900 Amp Continuous
25kA sym., 10 cycles

NOTE: 900 Amp ratings require copper cable and copper current-carrying components.

VOLTAGE RATINGS

15/25kV Class (5kV thru 28kV)

16.2kV Phase-to-Ground

28kV Phase-to-Phase

140kV BIL

45kV AC Withstand

84kV DC Withstand

21.5kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground

36.6kV Phase-to-Phase

150kV BIL

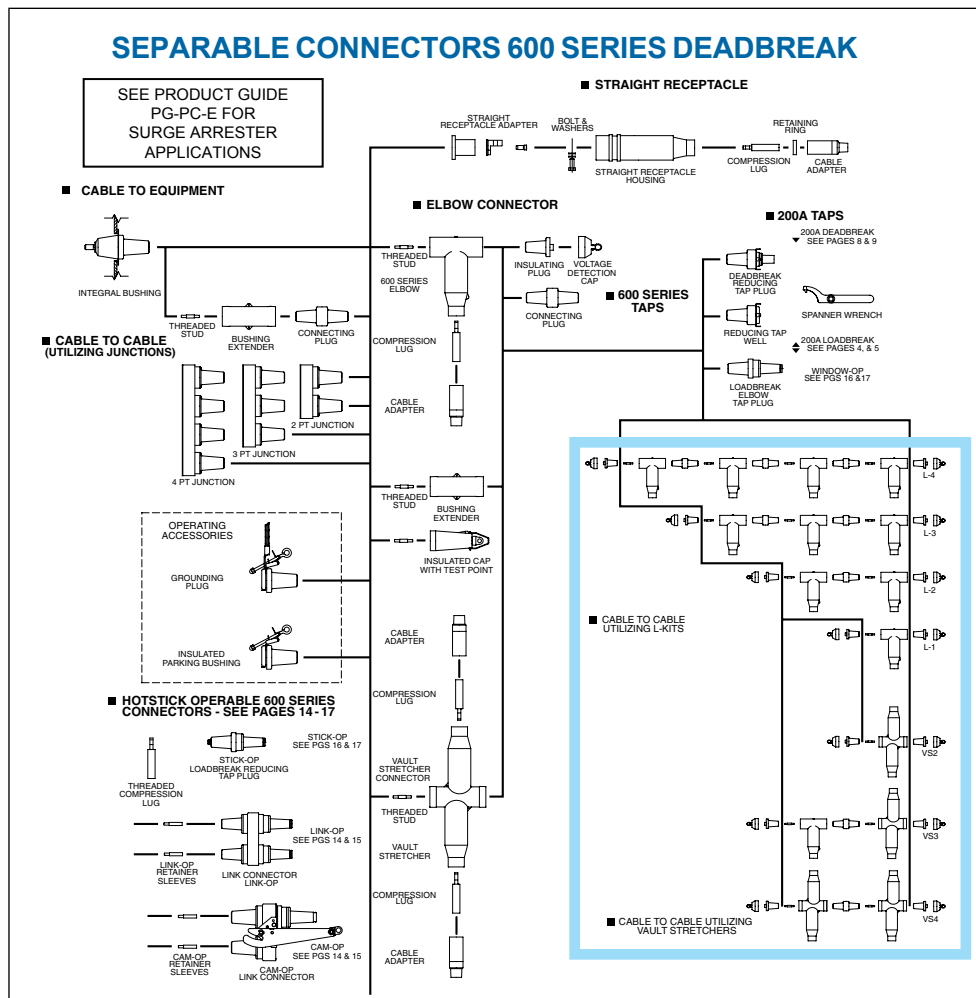
50kV AC Withstand





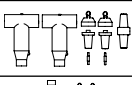

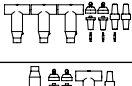




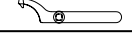
103kV DC Withstand

26kV Corona Extinction

Note: Elastimold has increased the IEEE Standard Production and Design Test levels for 25kV Class products to include 27kV and 28kV systems.

SEPARABLE CONNECTORS 600 SERIES DEADBREAK



| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|---|------------------------------|------------------|-----------------------------------|----------------------------------|
|  | 2-Point Junction | 15/25kV 35kV | K650J2 750J2 | N1,9,10 N1,9,10 |
|  | 3-Point Junction | 15/25kV 35kV | K650J3 750J3 | N1,9,10 N1,9,10 |
|  | 4-Point Junction | 15/25kV 35kV | K650J4 750J4 | N1,9,10 N1,9,10 |
|  | 1-way L-Kit | 15/25kV 35kV | K655L1 755L1 | N1,2,3,4 N1,2,3,4 |
|  | 2-way L-Kit | 15/25kV 35kV | K655L2 755L2 | N1,2,3,4,5,6,7 N1,2,3,4,5,6,7 |
|  | 2-way VS-Kit | 15/25kV 35kV | K655VSL2 755VSL2 | N1,2,3 N1,2,3 |
|  | 3-way L-Kit | 15/25kV 35kV | K655L3 755L3 | N1,2,3,4,5 N1,2,3,4,5 |
|  | 3-Way VS Kit | 15/25kV 35kV | K655VSL3 755VSL3 | N1,2,3,5,6,7 N1,2,3,5,6,7 |
|  | 4-Way L-Kit | 15/25kV 35kV | K655L4 755L4 | N1,2,3,4,5 N1,2,3,4,5 |
|  | 4-Way VS-Kit | 15/25kV 35kV | K655VSL4 755VSL4 | N1,2,3,5 N1,2,3,5 |
|  | Assembly Tool (Window-Op) | ALL | 600ATM | N8 |
|  | Spanner Wrench | ALL | 600SW | N2 |

N1. For 900 Amp ratings, substitute 675 for 650 and 655; 676 for 656; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the part number. The 900 Amp rating requires copper current-carrying connector components and copper conductor cable.

N2. 600SW spanner wrench is recommended for installation of K650CP connecting plug, deadbreak reducing tap plugs and reducing tap wells.

N3. L-Kits and VS-Kits do not include cable adapters or compression lugs. These items must be ordered separately.

N4. 600 Series Elbows and Straight Receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the part number.

N5. 600ATM is recommended for installing K651CP and 750CP.

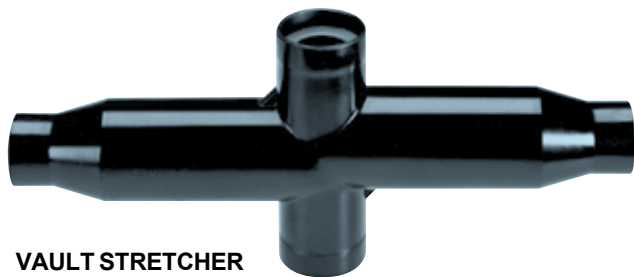
N6. Can be used as a repair joint. (Gains 3½" of repair length)

N7. Can be used as a reducing joint for different size cables.

N8. See page 17 for Window-Op Connector Kit.

N9. Rubber junction with stainless steel mounting plate and back plate. Add "-U" for rubber junction with stainless steel mounting plate, back plate and adjustable mounting bracket. Add "-4" for rubber junction only. Add "-5" for rubber junction, stainless steel U-straps and back plate.

N10. Two - six-position multi-point junctions shown on pages 20 and 21.



VAULT STRETCHER

Provides an alternate method of splicing and joining various types and styles of cables using standard 600 Series components.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

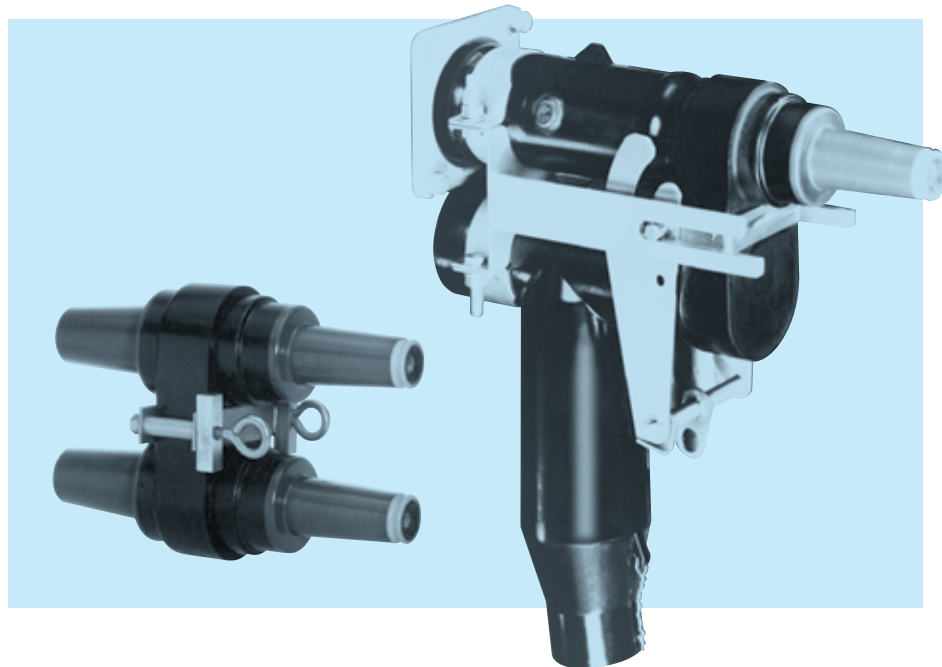
For cable shield adapters and jacket seals, see page 28.

Elastimold's 600 Series Cam-Op™ and Link-Op™ deadbreak connector systems incorporate provisions for hotstick operation of DE-ENERGIZED primary feeder or network circuits. Configurations allow external visible break, testing, grounding and isolation. Retrofit kits allow upgrading existing equipment.

Cam-Op systems utilize pin and socket connectors. Link-Op connectors are bolted and installed using torque controlled tools. Either system can be retrofitted to existing equipment.

The Cam-Op and Link-Op connectors are unique, allowing all hotstick operations to be completed without moving the cable, an important consideration when large, stiff cables prohibit movement.

The Cam-Op connector is easily installed or removed by hotstick operation of the cam action disconnect lever.



RATINGS OVERVIEW

See page 2 for complete information.

CURRENT RATINGS

600 & 900 Amp Continuous
25kA sym., 10 cycles

NOTE: 900 Amp ratings require copper cable and copper current-carrying components.

CONTINUOUS VOLTAGE RATINGS

15kV Class

8.3kV Phase-to-Ground
14.4kV Phase-to-Phase
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

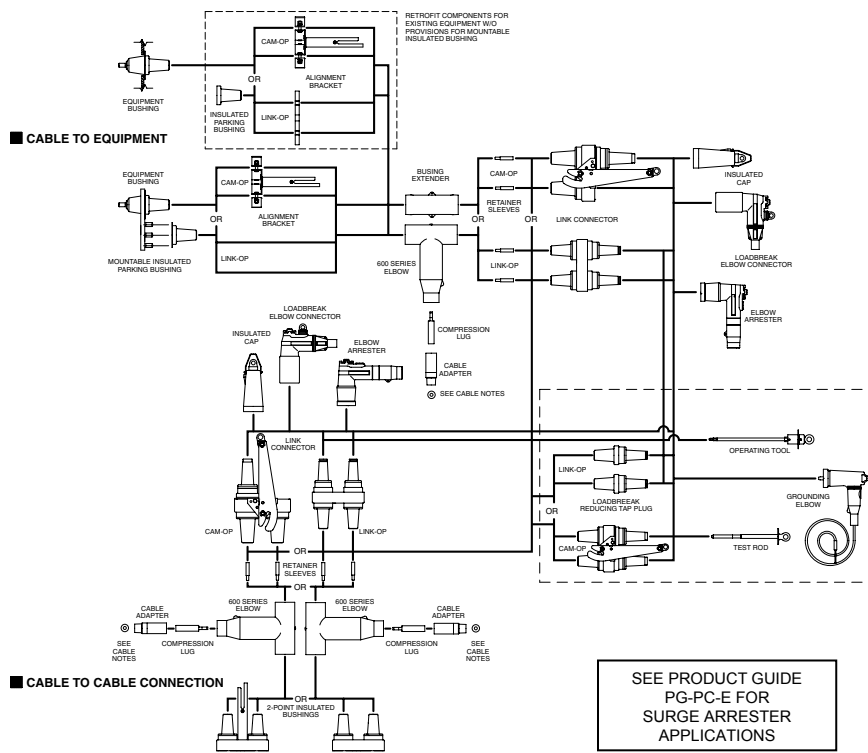
25kV Class

15.2kV Phase-to-Ground
26.3kV Phase-to-Phase
125kV BIL
40kV AC Withstand
78kV DC Withstand
19kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground
36.6kV Phase-to-Phase
150kV BIL
50kV AC Withstand
103kV DC Withstand
26kV Corona Extinction

CAM-OP™ & LINK-OP™ SYSTEM – 600 SERIES DEADBREAK



| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|---|------------------|---|------------------------|
| | CAM-OP CONNECTOR KIT | 15kV | 655LINK-C-LR-W0X-B-DRG Use Tables W7 and X6 | N1,3,11, 13,14,18 |
| | | 25kV | K655LINK-C-LR-W0X-B-DRG Use Tables W7 and X6 | |
| | | 35kV | 755LINK-C-LR-W0X-B-DRG Use Tables W9 and X6 | |
| | LINK-OP CONNECTOR KIT | 15kV | 655LINK-B-LR-W0X-B-DRG Use Tables W7 and X6 | N2,3,11,12 13,14,18 |
| | | 25kV | K655LINK-B-LR-W0X-B-DRG Use Tables W7 and X6 | |
| | | 35kV | 755LINK-B-LR-W0X-B-DRG Use Tables W9 and X6 | |
| | Mountable Insulated Bushing | 25kV | K650LBM-3 | N3 N3 |
| | | 35kV | 750LBM-3 | |
| | RETROFIT CAM-OP CONNECTOR KIT | 15kV | 655LINK-C-LR-W0X-A-DRG Use Tables W7 and X6 | N5,11,13 14,18 |
| | | 25kV | K655LINK-C-LR-W0X-A-DRG Use Tables W7 and X6 | |
| | | 35kV | 755LINK-C-LR-W0X-A-DRG Use Tables W9 and X6 | |
| | RETROFIT LINK-OP CONNECTOR KIT | 15kV | 655LINK-B-LR-W0X-A-DRG Use Tables W7 and X6 | N6,11,12, 13,14,18 |
| | | 25kV | K655LINK-B-LR-W0X-A-DRG Use Tables W7 and X6 | |
| | | 35kV | 755LINK-B-LR-W0X-A-DRG Use Tables W9 and X6 | |
| | Insulating Plug | 25kV | K650LB | N4 N4 |
| | | 35kV | 750LB | |
| | CAM-OP Alignment Bracket | 15kV | 650CAB | |
| | | 25kV 35kV | K650CAB 750CAB | |
| | LINK-OP Alignment Bracket (Retrofit LINK-OP Only) | ALL | 650AB | N15 N15 |
| | | ALL | 650ABV | |
| | Compression Lug | ALL | 03700X Use Table X6 | N7 N8 |
| | | ALL | 03702X Use Table X6 | |
| | CAM-OP & LINK-OP Size Sensitive Kit (Cable Adapter & Lug) | 15/25kV | 655CK-W0X Use Tables W7 and X6 | N13 N13 |
| | | 35kV | 755CK-W0X Use Tables W9 and X6 | |
| | CAM-OP Retaining Sleeve | ALL | 650RSC | N11 |
| | LINK-OP Retaining Sleeve | ALL | 650RS | N11 |
| | CAM-OP CABLE JOINT KIT | 15kV | 655BI-LINK-C-LR-W0X-DRG Use Tables W7 and X6 | N9,11,13 14,18 |
| | | 25kV | K655BI-LINK-C-LR-W0X-DRG Use Tables W7 and X6 | |
| | | 35kV | 755BI-LINK-C-LR-W0X-DRG Use Tables W9 and X6 | |
| | LINK-OP CABLE JOINT KIT | 15kV | 655BI-LINK-B-LR-W0X-DRG Use Tables W7 and X6 | N10,11,12, 13,14,18 |
| | | 25kV | K655BI-LINK-B-LR-W0X-DRG Use Tables W7 and X6 | |
| | | 35kV | 755BI-LINK-B-LR-W0X-DRG Use Tables W9 and X6 | |
| | CAM-OP Loadbreak Reducing Tap Plugs (Visi-Break) | 15kV | 650LK-C-VB | |
| | | 25kV | K650LK-C-VB | |
| | | 35kV | 750LK-C-VB | |
| | CAM-OP LINK | 15kV | 650LK-C | |
| | | 25kV | K650LK-C | |
| | | 35kV | 750LK-C | |
| | LINK-OP Loadbreak Reducing Tap Plug | 15kV | 650LT-B | N11 |
| | | 25kV | K650LT-B | |
| | | 35kV | 750LT-B | |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|---|------------------|---------------------------|-------------------|
| | Grounding Elbow (1/0 AWG x 6' Ground Lead) | 15kV | 160GLR | N19 N19 |
| | | 25kV | 370GLR | |
| | | 35kV | 370GLR | |
| | Test Rod | ALL | 370TR | |
| | Assembly Tool | ALL | 600AT | N11 |
| | CAM-OP OPERATING KIT | 15kV | 650CAM-OK | N16 N16 N16 |
| | | 25kV | K650CAM-OK | |
| | | 35kV | 750CAM-OK | |
| | LINK-OP OPERATING KIT | 15kV | 650LINK-OK | N17 N17 N17 |
| | | 25kV | K650LINK-OK | |
| | | 35kV | 750LINK-OK | |

- N1. Cam-Op connector kit includes: 1- Cam-Op link; 1- elbow housing; 1- cable adapter; 1-0370 style lug; 1- bushing extender; 2- retainer sleeves; 1- insulated cap; 1- mountable insulated bushing and 1- alignment bracket.
- N2. Link-Op connector kit includes: 1- Link-Op link; 1- elbow housing; 1- cable adapter; 1-0370 style lug; 1- bushing extender; 2- retainer sleeves; 2- insulated caps; and 1- mountable insulated bushing.
- N3. Mountable insulated bushing included with Cam-Op and Link-Op connector kit. Requires 3 threaded studs on equipment faceplate for installation.
- N4. Use with the Retrofit Cam-Op and Retrofit Link-Op connector kit.
- N5. Retrofit Cam-Op connector kit includes: 1- link; 1- elbow housing; 1- cable adapter; 1-0370 style lug; 1- bushing extender; 2- retainer sleeves; 1- insulated cap; 1- insulating plug; and 1- alignment bracket.
- N6. Retrofit Link-Op connector kit includes: 1- link; 1- elbow housing; 1- cable adapter; 1-0370 style lug; 1- bushing extender; 2- retainer sleeves; 2- insulated caps; 1- insulating plug; and 1- alignment bracket.
- N7. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.
- N8. Copper lug for use on COPPER CONDUCTOR ONLY. DO NOT substitute 03602X threaded lug.
- N9. Cam-Op Cable Joint Kit includes: 1- Cam-Op link; 1- Cam-Op BI-SOP; 2- elbow housings; 2- cable adapters; 2- 0370 style lugs; 2- retainer sleeves; 1- insulated cap.
- N10. Link-Op Cable Joint Kit includes: 1- Link-Op link; 1- Link-Op BI-SOP; 2- elbow housings; 2- cable adapters; 2- 0370 style lugs; 2- retainer sleeves; 2- insulated caps.
- N11. 600AT assembly tool required for operation and/or installation of Link-Op. 600ATM is recommended for installing Link-Op/Cam-Op retaining sleeves.
- N12. For 900 Amp ratings, substitute 675 for 650 and 655; 676 for 656; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the part number. The 900 Amp rating requires copper current-carrying connector components and copper conductor cable.
- N13. Add suffix symbol from page 29 to include cable shield grounding kit and/or cable jacket sealing kit.
- N14. To add elbows or arresters instead of insulating caps, replace the "DRG" with "LR-WX" for elbows (with test point) or "ESA" for elbow arresters.
- N15. The 650ABV is required when the bushing horizontal spacing on the equipment or junctions is less than 5".
- N16. Cam-Op operating kit includes accessories that enable visible break, testing, isolation and grounding functions to be performed. Kit includes: 3- Cam-Op loadbreak reducing tap plugs; 3- grounding elbows; 1- assembly tool; 1- test rod; 1- carry case; 1- lubricant; 1- instructions.
- N17. Link-Op operating kit includes accessories that enable visible break, testing, isolation and grounding functions to be performed. Kit includes: 6- Link-Op loadbreak reducing tap plugs; 3- grounding elbows; 1- assembly tool; 1- test rod; 1- carry case; 1- lubricant; 1- instructions.
- N18. 600 Series Elbows and Straight Receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the part number.
- N19. Rated for both 25kV and 35kV applications.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

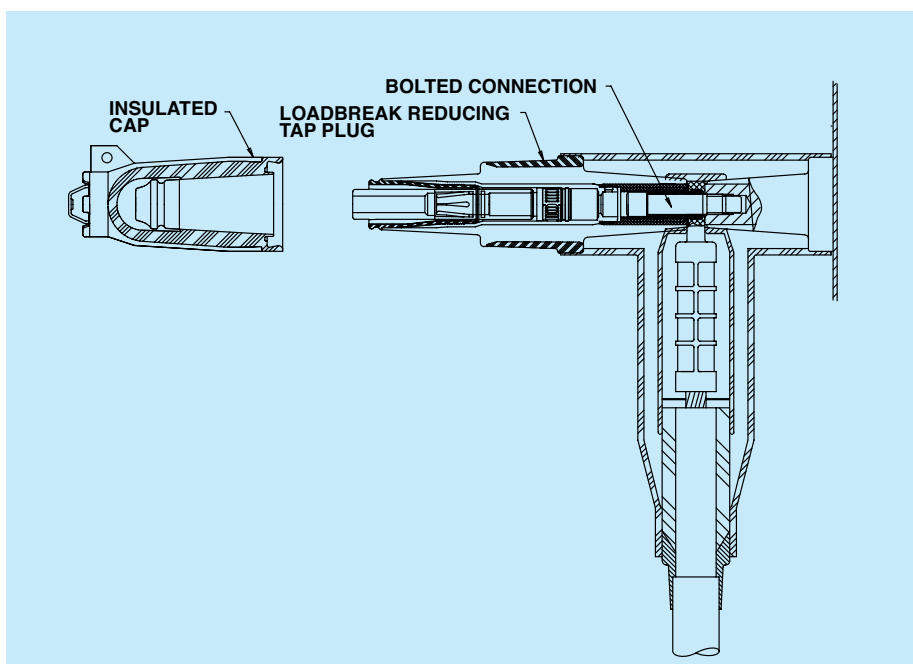
Elastimold's 600 Series Window-Op™ and Stick-Op™ deadbreak connector systems incorporate provisions for hotstick operation of DE-ENERGIZED primary feeder or network circuits.

The Window-Op and Stick-Op connectors allow direct testing and grounding with no required cable movement.

Window-Op is ideal for equipment applications which include viewing windows to provide an internal visible break that does not require hotstick removal of the elbows.

Stick-Op provides an external visible break by hotstick removal of the elbow.

Window-Op and Stick-Op connectors are bolted and installed using torque controlled tools.



RATINGS OVERVIEW

See page 2 for complete information.

CURRENT RATINGS

600 & 900 Amp Continuous
25kA sym., 10 cycles

NOTE: 900 Amp ratings require copper cable and copper current-carrying components.

CONTINUOUS VOLTAGE RATINGS

15kV Class

8.3kV Phase-to-Ground
14.4kV Phase-to-Phase
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

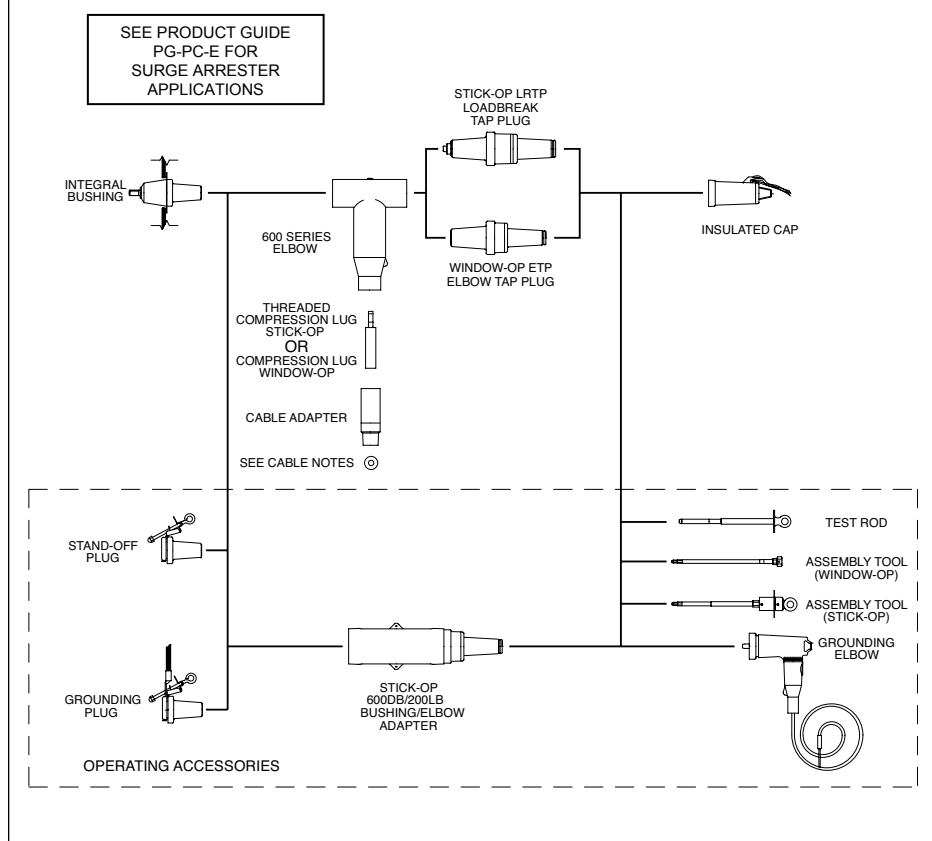
25kV Class

15.2kV Phase-to-Ground
26.3kV Phase-to-Phase
125kV BIL
40kV AC Withstand
78kV DC Withstand
19kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground
36.6kV Phase-to-Phase
150kV BIL
50kV AC Withstand
103kV DC Withstand
26kV Corona Extinction

STICK-OP™ & WINDOW-OP™ SYSTEM – 600 SERIES DEADBREAK



| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|---|------------------|---|-------------------------|
| | WINDOW-OP Connector Kit | 15kV | 655ETP-W0X-DRG Use Tables W7 and X6 | N1,4,5,6 13,15 |
| | | 25kV | K655ETP-W0X-DRG Use Tables W7 and X6 | |
| | | 35kV | 755ETP-W0X-DRG Use Tables W9 and X6 | |
| | WINDOW-OP Replacement Connector Kit | 15kV | 655RETP | N4,5,6 13,15,16 |
| | | 25kV | K655RETP | |
| | STICK-OP Connector Kit | 15kV | 655LRTP-W0X-DRG Use Tables W7 and X6 | N2,3,4,5, 8,13 |
| | | 25kV | K655LRTP-W0X-DRG Use Tables W7 and X6 | |
| | | 35kV | 755LRTP-W0X-DRG Use Tables W9 and X6 | |
| | STICK-OP Replacement Connector Kit | 15kV | 655RLRTP | N3,4,5 8,13,16 |
| | | 25kV | K655RLRTP | |
| | WINDOW-OP Loadbreak Elbow Tap Plug | 15kV | 650ETP | N4,15 N4,15 N4,15 |
| | | 25kV | K650ETP | |
| | | 35kV | 750ETP | |
| | STICK-OP Loadbreak Reducing Tap Plug | 15kV | 650LRTPA3 | N3,4 |
| | | 25kV | K650LRTPA2 | |
| | | 35kV | 750LRTPA2 | |
| | STICK-OP Bushing Adapter | 15kV | 655BEA3 | N3,4 |
| | | 25kV | K655BEA2 | |
| | | 35kV | 755BEA2 | |
| | Compression Lug WINDOW-OP | ALL | 03700X Use Tables X6 | N6 |
| | | ALL | 03702X Use Tables X6 | N7 |
| | Threaded Compression Lug STICK-OP | ALL | 03600X Use Tables X6 | N8 |
| | | ALL | 03602X Use Tables X6 | N9 |
| | WINDOW-OP Size Sensitive Kit (Cable Adapter & Lug) | 15/25kV | 655CK-W0X Use Tables W7 and X6 | N5 |
| | | 35kV | 755CK-W0X Use Tables W9 and X6 | N5 |
| | STICK-OP Size Sensitive Kit (Cable Adapter & Threaded Lug) | 15/25kV | 655TCK-W0X Use Tables W7 and X6 | N5 |
| | | 35kV | 755TCK-W0X Use Tables W9 and X6 | N5 |
| | Extraction Tool | ALL | 650ET | N10 |
| | Grounding Elbow (1/0 AWG x 6' Ground Lead) | 15kV | 160GLR | N14 N14 |
| | | 25kV | 370GLR | |
| | | 35kV | 370GLR | |
| | Test Rod | ALL | 370TR | |
| | Assembly Tool (Stick-Op) | ALL | 600AT | N3 |
| | Assembly Tool (Window-Op) | ALL | 600ATM | N15 |
| | STICK-OP OPERATING KIT | 15kV | 650STICK-OK | N11 |
| | | 25kV | K650STICK-OK | N11 |
| | | 35kV | 750STICK-OK | N11 |
| | WINDOW-OP OPERATING KIT | 15kV | 650WINDOW-OK | N12 |
| | | 25kV | K650WINDOW-OK | N12 |
| | | 35kV | 750WINDOW-OK | N12 |

- N1. Window-Op Kit includes: insulated cap; Window-Op reducing tap plug; 600 Series elbow housing; cable adapter; and 0370 style compression lug.
- N2. Stick-Op Kit includes insulated cap; Stick-Op Loadbreak reducing tap plug; 600A Elbow Housing; cable adapter; and threaded 0360 style compression lug.
- N3. 600AT assembly tool required for operation and/or installation of Stick-Op.
- N4. For 900 Amp ratings, substitute 675 for 650 and 655; 676 for 656; K675 for K650 and K655; K676 for K656; 775 for 750 and 755; 776 for 756 and 2X for 0X in the part number. The 900 Amp rating requires copper current-carrying connector components and copper conductor cable.
- N5. Add suffix symbol from page 29 to include cable shield grounding kit and/or cable jacket sealing kit.
- N6. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.
- N7. Copper lug for use on COPPER CONDUCTOR ONLY. DO NOT substitute 03602X threaded lug.
- N8. Threaded aluminum lug (Stick-Op only) for use on copper or aluminum conductors. DO NOT substitute unthreaded 03700X lugs. DO NOT use with 675, 676, K675, K676, 775 or 776 part numbers.
- N9. Threaded copper lug (Stick-Op only) for use on copper conductors only. DO NOT substitute unthreaded 03702X lugs.
- N10. Required to disassemble Stick-Op loadbreak reducing tap plug from the threaded compression lug and 600 Series elbow after the shear-pin is broken during assembly.
- N11. Stick-Op Operating Kit includes accessories that enable visible break direct testing, isolation, and grounding functions to be performed. Kit includes: 3-insulated parking bushings; 3-grounding elbows; 3-600DB/200LB bushing/elbow adapters; 1-assembly tool; 1-test rod; 1-carry case; 1-lubricant; 1-instructions.
- N12. Window-Op Operating Kit includes accessories that enable visible grounding and direct testing functions to be performed. Kit includes: 3-grounding elbows; 1-test rod; 1-carry case; 1-lubricant; 1-instructions.
- N13. 600 Series Elbows and Straight Receptacles with IEEE Std. 386 capacitive test points are available by substituting 656 for 655; K656 for K655; K676 for K675; 756 for 755; 676 for 675; K676 for K675 and 776 for 775 in the part number.
- N14. Rated for both 25kV and 35kV applications.
- N15. 600ATM assembly tool required for Window-Op assembly. 50 – 60 ft/lbs torque wrench required but not included.
- N16. Replacement Elbow includes: insulated cap; reducing tap plug; 600 series elbow housing; I-Adapter; straight receptacle, resulting in a net gain of 20" in length vs. a standard elbow kit. Compression lugs and cable adapters are ordered separately.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

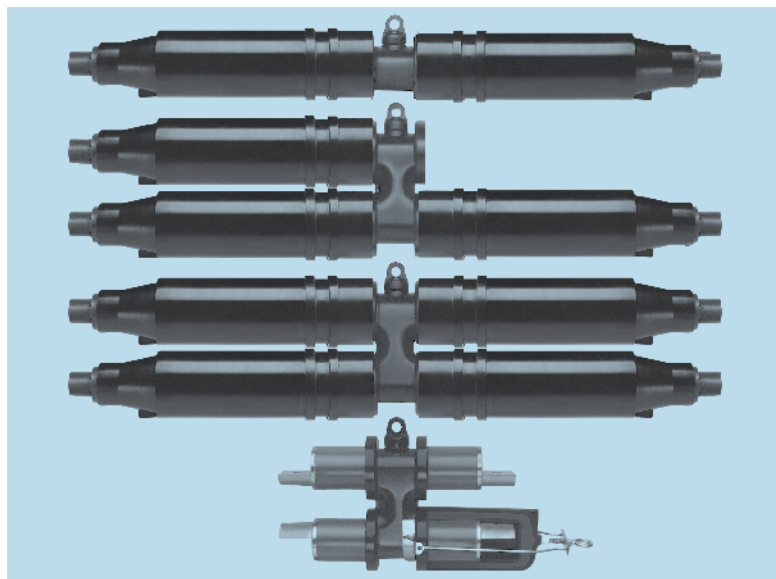
CABLE ACCESSORIES

600 Series Deadbreak – Cable Joints

600 Series Separable Cable Joints are available in 2, 3 and 4-way versions and include a capacitive test point as standard. Units are interchangeable, featuring bolted connections. Designs are compact and ideally suited for small vaults and manholes.

DE-ENERGIZED joints can be quickly and easily connected and disconnected using standard hand tools and equipment in accordance with accepted operating practices. Bus bars can be changed to add or remove cables from the joint.

Optional accessories include insulating and grounding caps and plugs which allow visible external separation, by-pass, isolation, dead-ending, grounding and testing.



Separable Connectors
200A Loadbreak

RATINGS OVERVIEW

See page 2 for complete information

CURRENT RATINGS

(Prefixes: 650, K650, K655, K656 & 03700)

600 Amp Continuous

25kA sym., 10 cycles

VOLTAGE RATINGS

15/25kV Class (5kV thru 28kV)

16.2kV Phase-to-Ground

28kV Phase-to-Phase

140kV BIL

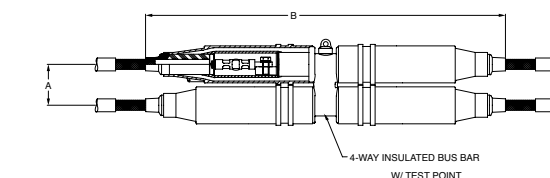
45kV AC Withstand

84kV DC Withstand

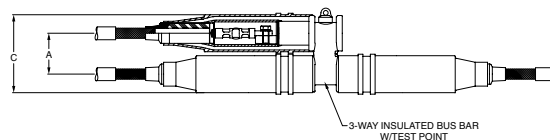
21.5kV Corona Extinction

Note: Elastimold has increased the IEEE Standard Production and Design Test levels for 25kV Class products to include 27kV and 28kV systems.

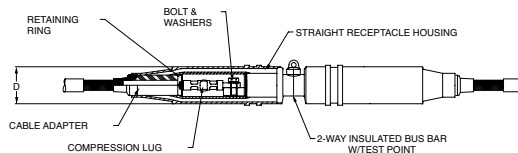
SEPARABLE CABLE JOINTS – 600 SERIES DEADBREAK



SEPARABLE
H-JOINT
(4-WAY)

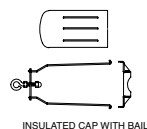


SEPARABLE
WYE-JOINT
(3-WAY)

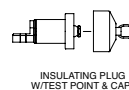


SEPARABLE
STRAIGHT JOINT
(2-WAY)

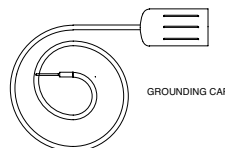
OPERATING ACCESSORIES



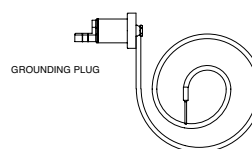
INSULATED CAP WITH BAIL



INSULATING PLUG
W/ TEST POINT & CAP



GROUNDING CAP



GROUNDING PLUG

Note: The separable cable joints shown here use a special "Y" interface that may not be interchangeable with other 600 Series interfaces.

| DIMENSION | INCHES |
|-----------|--------|
| A | 4 1/4 |
| B | 37 1/8 |
| C | 8 1/8 |
| D | 3 7/8 |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|--|--------------------|--|----------|
| | Separable Straight Joint Pkg. (2-way) w/ Test Point | 15/25kV | K656I-W0X Use Tables W7 and X6 | N1,8 |
| | Basic Housing Pkg. Straight Joint w/ Test Point | 15/25kV | K656I-HP | N2 |
| | Separable Wye Joint Pkg. (3-Way) w/ Test Point | 15/25kV | K656CY-W0X Use Tables W7 and X6 | N1,8 |
| | Basic Housing Pkg. Wye Joint w/ Test point | 15/25kV | K656CY-HP | N2 |
| | Separable "H" Joint Pkg. (4-Way) w/ Test Point | 15/25kV | K656CH-W0X Use Tables W7 and X6 | N1,8 |
| | Basic Housing Pkg. "H" Joint w/ Test Point | 15/25kV | K656CH-HP | N2 |
| | 2-Way Insulated Bus Bar w/Test Point | 15/25kV | K656I-BUS | N3 |
| | 3-Way Insulated Bus Bar w/Test Point | 15/25kV | K656CY-BUS | N3 |
| | 4-Way Insulated Bus Bar w/Test Point | 15/25kV | K656CH-BUS | N3 |
| | Straight Receptacle | 15/25kV | K655YSR-W0X Use Tables W7 and X6 | N4,8 |
| | Direct Test Straight Receptacle Elbow | 15/25kV | K655YDSR-W0X Use Tables W7 and X6 | N4,8,11 |
| | Direct Test Straight Receptacle Elbow w/ Test Point | 15/25kV | K656YDSR-W0X Use Tables W7 and X6 | N4,8,11 |
| | Straight Receptacle Housing Only | 15/25kV | K655YBSR | N5,10 |
| | Insulated Cap w/ Bail | 15/25kV | K655YDR | |
| | Bail Only | 15/25kV | 650BA | |
| | Cable Adapter | 15/25kV | 655CA-W Use Table W7 | |
| | Adapter Retaining Ring | 15/25kV | 650ARR-X Use Table X6 | |
| | Compression Lug | 15/25kV 15/25kV | 03700X 03702X Use Table X6 | N7 N9 |
| | 600 Series Straight Receptacle Size Sensitive Kit (Cable Adapter, Retaining Ring & Lug) | 15/25kV | 655CK-W0X-ARR Use Tables W7 and X6 | N8 |

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--------------------------------|---|------------------|---------------------------|-------|
| | Insulating Plug w/ Test Point & Cap | 15/25kV | K650YBIP | |
| | Grounding Plug (4/0 AWG x 6' Ground Lead) | 15/25kV | 650YGP | |
| | Grounding Cap (4/0 AWG x 6' Ground Lead) | 15/25kV | 650GYDR | |
| | Stainless Steel Bolt & Washers | 15/25kV | 650BAW | |
| | Assembly/ Disassembly Tool | ALL | 600YADT-1 | N6 |
| | Assembly/ Disassembly Tool | ALL | 600RRT | N6 |

- N1. Complete Joint Packages consisting of: insulated bus bar; straight receptacle housings, retaining rings, cable size adapters, lugs, bolts and washers.
- N2. Housing Packages consisting of the following non-size sensitive components of the joint: insulated bus bar, straight receptacle housings, bolts and washers.
- N3. Insulated bus bar only.
- N4. Straight Receptacle consisting of: straight receptacle housing, retaining ring, cable adapter, lug, bolt and washers.
- N5. Straight receptacle housing consisting of: straight receptacle housing, bolt and washers.
- N6. Recommended for ease of assembly/disassembly of receptacles to Bus. 600 YADT is lever drive & 600RRT is screw drive.
- N7. Aluminum lug for use on aluminum or copper conductors. DO NOT substitute threaded 03600X lug.
- N8. Add suffix symbol from page 29 to include cable shield grounding kit and/or cable jacket sealing kit.
- N9. Copper lug for use with COPPER CONDUCTOR ONLY. DO NOT substitute threaded 03602X lug.
- N10. Available without the bolt & washers by adding "N" to the part number.
- N11. Direct Test Connectors, along with a 200TC-X series meter adapter, a properly rated voltage meter and Hot-line Stick; provides a means for direct conductor voltage testing. See page 11 for meter adapters.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

Elastimold multi-point junctions are available in 2, 3, 4, 5 or 6 point configurations with 15, 25 or 35kV ratings. Units feature modular design flexibility, allowing selection of any combination of 200 Amp deepwell or 600 Amp bushing interfaces located on standard 4" or optional 6 1/2" centers. The 6 1/2" center spacing is especially well suited for Distributed Switchgear applications including fused elbow, MVI fault interrupter, MVS switch, etc.

Designs incorporate lightweight, damage resistant, EPDM molded rubber construction and corrosion resistant 304 stainless steel mounting brackets. Junctions are maintenance-free, fully shielded, deadfront and submersible. Units are ideally suited for subsurface, padmount, indoor and outdoor vault applications.

Elastimold multi-point junctions provide a convenient method for connecting, looping and tapping of 200 and 600 Amp elbows and other accessories at a common location where utilization of space, cable training, flexibility and operability are important.

RATINGS OVERVIEW

See page 2 for complete information

CURRENT RATINGS

600 Amp Continuous
25kA sym., 10 cycles
or with 200 Amp Bushing Well versions

200 Amp Continuous
10kA sym., 10 cycles

VOLTAGE RATINGS

15kV Class

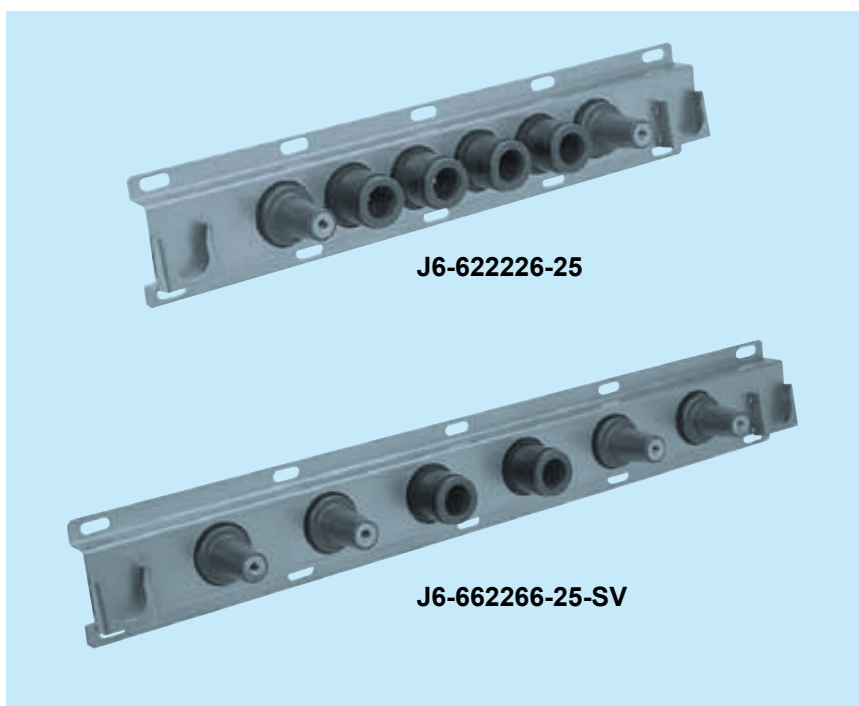
8.3kV Phase-to-Ground
95kV BIL
34kV AC Withstand
53kV DC Withstand
11kV Corona Extinction

25kV Class

16.2kV Phase-to-Ground
140kV BIL
45kV AC Withstand
84kV DC Withstand
21.5kV Corona Extinction

35kV Class

21.1kV Phase-to-Ground
150kV BIL
50kV AC Withstand
103kV DC Withstand
26kV Corona Extinction



DIMENSIONAL INFORMATION

Figure 1: Multi-Point Junctions with 4" Interface Spacings.

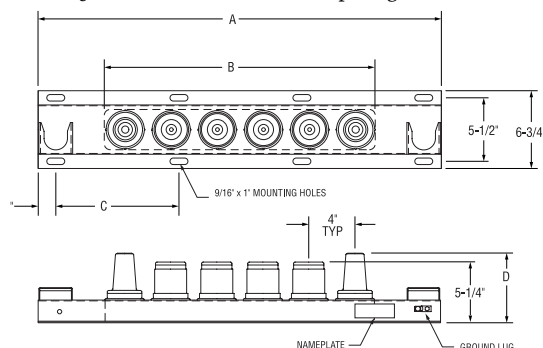
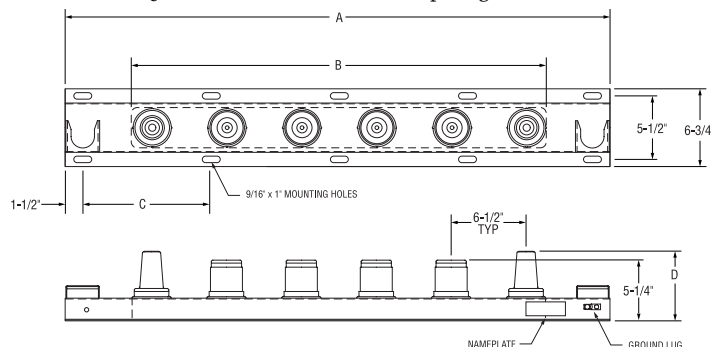
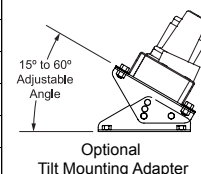


Figure 2: Multi-Point Junctions with 6 1/2" Interface Spacings.




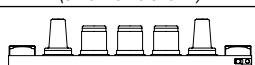
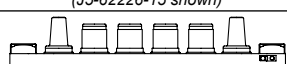


| Type of Junction | Figure 1 | | | | Figure 2 | | | |
|------------------|----------|--------|-------|--------------------------|----------|----|--------|--------------------------|
| | A | B | C | number of mounting holes | A | B | C | number of mounting holes |
| J2 | 15 | 7 1/2 | 6 | 6 | 19 1/2 | 10 | 8 1/4 | 6 |
| J3 | 19 | 11 1/2 | 8 | 6 | 26 | 10 | 11 1/2 | 6 |
| J4 | 24 | 15 1/2 | 10 | 6 | 32 1/2 | 23 | 9 1/4 | 8 |
| J5 | 27 | 19 1/2 | 12 | 6 | 39 | 10 | 12 | 8 |
| J6 | 31 | 23 1/2 | 9 3/4 | 8 | 45 1/2 | 36 | 8 1/4 | 10 |



The Elastimold multi-point junctions feature modular design flexibility that permits the specifier to determine the positions of the bushing interfaces and bushing well positions.

Base Catalog Numbers

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | | Notes |
|---|------------------|----------------------|--|---|-------|
| | | | 4" Spacing | 6½" Spacing | |
|  (J2-26-15 shown) | 2-point Junction | 15kV 25kV 35kV | J2 - ____ - 15 J2 - ____ - 25 J2 - ____ - 35 | J2 - ____ - 15-SV J2 - ____ - 25-SV J2 - ____ - 35-SV | N1, 2 |
|  (J3-626-35 shown) | 3-point Junction | 15kV 25kV 35kV | J3 - ____ - 15 J3 - ____ - 25 J3 - ____ - 35 | J3 - ____ - 15-SV J3 - ____ - 25-SV J3 - ____ - 35-SV | N1, 2 |
|  (J4-6226-15 shown) | 4-point Junction | 15kV 25kV 35kV | J4 - ____ - 15 J4 - ____ - 25 J4 - ____ - 35 | J4 - ____ - 15-SV J4 - ____ - 25-SV J4 - ____ - 35-SV | N1, 2 |
|  (J5-62226-15 shown) | 5-point Junction | 15kV 25kV 35kV | J5 - ____ - 15 J5 - ____ - 25 J5 - ____ - 35 | J5 - ____ - 15-SV J5 - ____ - 25-SV J5 - ____ - 35-SV | N1, 2 |
|  (J6-622226-15 shown) | 6-point Junction | 15kV 25kV 35kV | J6 - ____ - 15 J6 - ____ - 25 J6 - ____ - 35 | J6 - ____ - 15-SV J6 - ____ - 25-SV J6 - ____ - 35-SV | N1, 2 |

ORDERING INFORMATION

To specify and order Elastimold Multi-Point Junctions:

1. Use Table 1 to construct a catalog number describing the required junction.

Table 1. Catalog Number Construction

| | | | | | | | | | | | | | | | | | | |
|---|----------|--|----------------------------|--|--|--|--|---------------|------|-------------------|-------------------------------|---------|--|--|---|--|--|--|
| J | | - | | | | | | - | | | - | | | | - | | | |
| Multi-Point Junction | | | | | | | | | | | | | | | | | | |
| Number of Points | | Interface Identification * and Positioning | | | | | | Voltage Class | | Interface Spacing | | Options | | | | | | |
| 2 | 2 Points | 2 | 200 Amp Deepwell Interface | | | | | 15 | 15kV | Blank | Standard spacing – 4" centers | | | | | | | |
| 3 | 3 Points | 6 | 600 Amp Bushing Interface | | | | | 25 | 25kV | SV | Optional 6½" centers | | | | | | | |
| 4 | 4 Points | B | Blank Position | | | | | 35 | 35kV | | | | | | | | | |
| 5 | 5 Points | | | | | | | | | | | | | | | | | |
| 6 | 6 Points | | | | | | | | | | | | | | | | | |
| * When there is a 200 Amp Interface on one side of the junction and a 600 Series Interface on the other side, always start with the 200 Amp side. | | | | | | | | | | | | | | | | | | |
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Ordering Example A

To order a 4-point, 15kV junction with 4" spacings and 600 series interfaces on the outside ways and 200 Amp wells on the inside ways specify: Catalog Number J4-6226-15.

Ordering Example B

To order a 6-point, 25kV junction with 6½" spacings and 600 series interfaces on the ways 1, 3, 4, 6 and 200 Amp wells on the ways 2 and 5 specify: Catalog Number J6-626626-25-SV.

N1. The 6½" wide spacing is necessary if the junction is to be used to connect with a single-phase MVS Molded Vacuum Switch or MVI Molded Vacuum Interrupter.

N2. Also available with a shorter bracket by reducing the number of parking stands, see R, L, N above.

PCJ™ Power Cable Joints utilize permanently crimped connectors. PCJ Housings are fully insulated, shielded and sealed for direct buried, vault, submersible and other severe service applications. Units have been designed and tested per IEEE Standard 404 to assure system matched performance and ratings equal to the cable to which the splice will be installed.

PCJ Power Cable Joints are available in 2 styles:

Style 1 uses a single piece housing that is sized to accommodate a specific range of cable. Style 1 units are ideally suited for straight splicing of the same or similar cable.

Style 2 designs incorporate a universal housing with separate cable adapters to allow transition splices of different types and sizes of cable.



ELECTRICAL RATINGS SUMMARY

The follow ratings summary is based on **IEEE Std. 404** and applies to all Elastimold PCJ Power Cable Joints.

VOLTAGE

- A.** 15kV Class (8.7kV Phase-to-Ground)
- B.** 25kV Class (14.4kV Phase-to-Ground)
- C.** 35kV Class (20.2kV Phase-to-Ground)

- **Impulse Withstand:** A=110kV, B=150kV, C=200kV BIL, 1.2 x 50 microsecond wave.
- **Corona Extinction Voltage:** A=13kV, B=22kV, C=30kV minimum, 3pC sensitivity.
- **DC Withstand:** During installation: A=56kV, B=80kV, C=100kV
- **DC Withstand:**
After installation and in service for the first 5 years:
A=18kV, B=25kV, C=31kV for XLPE Insulated Cables
and A=45kV, B=64kV, C=80kV for EPR Insulated Cables.
(Reference AEIC CS6 and CS8, Section L.2.)

CURRENT

- Continuous rating equal to the rating of the cable.
- Short-Time rating equal to the rating of the cable up to 35kA.

SHIELD DESIGN

- Meets IEEE standard 592 for Exposed Semiconducting Shields on Premolded High Voltage Cable Joints and Separable Insulated Connectors.

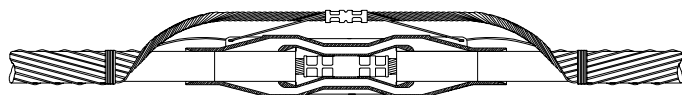
Production tests include 100% tests of the premolded joints to assure:

- **Corona Extinction Voltage:** A=13kV, B=22kV, C=30kV minimum, 3pC sensitivity.
- **AC Withstand:** A=35kV, B=52kV, C=69kV, 60 Hz, 1 minute.

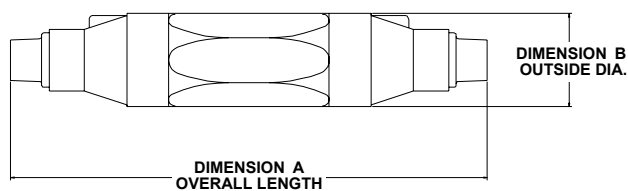
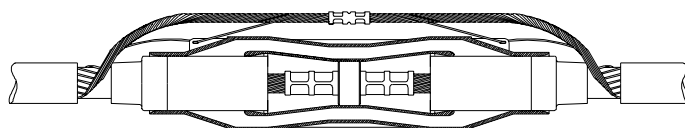
Design tests on production joints demonstrate compliance with IEEE 404 including:

- **Corona Extinction Voltage:** A=13.0kV, B=22.0kV, C=30.0kV minimum, 3pC sensitivity.
- **AC Withstand:** A=35kV, B=52kV, C=69kV, 60 Hz 1 minute.
- **DC Withstand:** A=70kV, B=100kV, C=125kV negative polarity, 15 minutes.
- **Impulse Withstand (BIL):** A=110kV, B=150kV, C=200kV, 10 positive and 10 negative, 1.2 x 50 microsecond wave, at conductor temperatures of 20° and 130°C, nominal.
- **Short-Time Current:** magnitude equal to cable up to 35kA.
- **Cyclic Aging:** 30 days at: A=26.1kV, B=43.2kV, C=60.6kV AC continuous, load current for 8 hours per day, providing 130° conductor temperature. Joints then subjected to: A=31kV, B=50kV, C=71kV for 5 hours followed by: A=39kV, B=65kV, C=91kV for 5 min.
- **Load Cycle:** Connectors meet requirements of ANSI C119.4, Class A and Class 3 ratings.

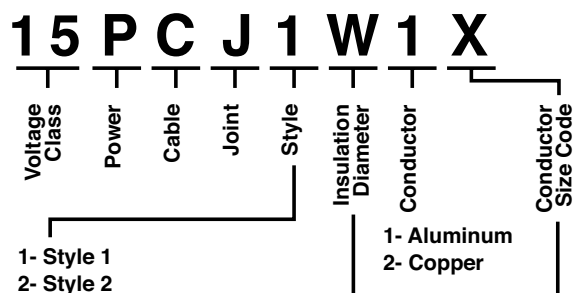
PCJ Style 1
with single-piece housing



PCJ Style 2
with universal housing and separate cable adapters
that can be varied with the cable application.



ORDERING INFORMATION



W SIZING INFORMATION AND SELECTION

Use Table W8 for 15PCJ

Use Table W9 for 25PCJ

Use Table W10 for 35PCJ

X SIZING INFORMATION AND SELECTION

Use Table X7 for 15PCJ, 25PCJ and 35PCJ

DIMENSIONAL DATA

| STYLE 1 PART NUMBER | A | B |
|------------------------|---------|----------|
| | inches | inches |
| 15PCJ1FX | 10 1/4" | 1 3/4" |
| 15PCJ1GX | 10 1/4" | 1 3/4" |
| 25PCJ1GX | 14 3/8" | 2 7/16" |
| 15/25/35PCJ1HX | 14 3/8" | 2 7/16" |
| 15/25/35PCJ1JX | 14 3/8" | 2 7/16" |
| 15/25/35PCJ1KX | 14 3/8" | 2 25/32" |
| 15/25/35PCJ1LX | 14 3/8" | 2 25/32" |
| 15/25PCJ1LMX | 14 3/8" | 2 25/32" |
| 15/25/35PCJ1MX | 14 3/8" | 2 25/32" |
| 15/25/35PCJ1NX | 15 3/4" | 3 3/16" |
| 15/25/35PCJ1PX | 15 3/4" | 3 3/16" |
| 15/25/35PCJ1QX | 15 3/4" | 3 3/16" |

| STYLE 2 PART NUMBER | A | B |
|------------------------|---------|----------|
| | inches | inches |
| 15PCJ2FX | 16 3/8" | 2 25/32" |
| 15/25PCJ2GX | 16 3/8" | 2 25/32" |
| 15/25/35PCJ2HX | 16 3/8" | 2 25/32" |
| 15/25/35PCJ2JX | 16 3/8" | 2 25/32" |
| 15/25/35PCJ2KX | 21" | 3 3/4" |
| 15/25/35PCJ2LX | 21" | 3 3/4" |
| 15/25/35PCJ2MX | 21" | 3 3/4" |
| 15/25/35PCJ2NX | 21" | 3 3/4" |
| 15/25/35PCJ2PX | 21" | 3 3/4" |
| 15/25/35PCJ2QX | 21" | 3 3/4" |

| Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|----------------------------------|---------------|------------------------|-------|
| Power Cable Joint Style 1 | 15kV | 15PCJ1W1X | N1 |
| | 15kV | 15PCJ1W2X | N2 |
| | 25kV | 25PCJ1W1X | N1 |
| | 25kV | 25PCJ1W2X | N2 |
| | 35kV | 35PCJ1W1X | N1 |
| | 35kV | 35PCJ1W2X | N2 |
| Power Cable Joint Style 2 | 15kV | 15PCJ2W1X | N1 |
| | 15kV | 15PCJ2W2X | N2 |
| | 25kV | 25PCJ2W1X | N1 |
| | 25kV | 25PCJ2W2X | N2 |
| | 35kV | 35PCJ2W1X | N1 |
| | 35kV | 35PCJ2W2X | N2 |

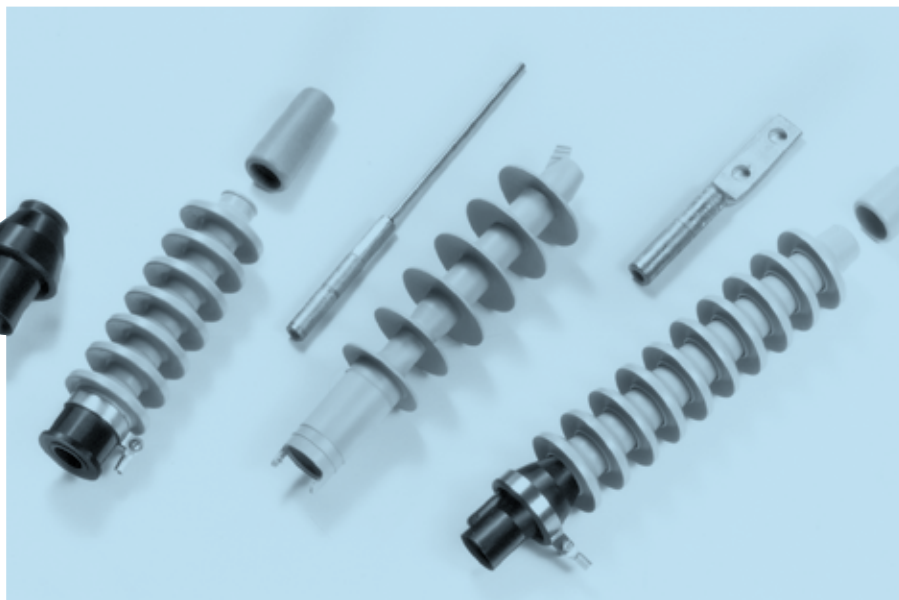
- N1. Kit includes aluminum compression connector suitable for splicing aluminum conductor to aluminum conductor or aluminum conductor to copper conductor. An all-copper connector is required for copper to copper connections.
- N2. Kit includes copper compression connector suitable for splicing copper conductors to copper conductor only. DO NOT use copper connectors on aluminum conductors.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

Elastimold cable terminations are available in single piece or modular designs. Terminators allow connection and transition from shielded, underground cable to bare overhead conductors and live-front equipment. Units are designed and rated per IEEE Standard 48 for riser pole, padmount, indoor and outdoor applications. PCT1, PCT2, 16THG and 35MTG terminators provide sufficient creep, strike and weather sealing for class 1 outdoor service. PCT1 and PCT2 also include an integral cable jacket seal.

The 35MTGI terminators and 35MSC stress cones are rated for class 2 and class 3 indoor service respectively. Optional mounting brackets, aerial lugs and equipment connectors are available as required.



ELECTRICAL RATINGS SUMMARY

The following ratings summary is based on IEEE Std. 48 and applies to all the terminations on page 24 thru 27. Elastimold terminations are designed for use on three-phase systems, either 3-wire or 4-wire and the single-phase laterals of these systems.

VOLTAGE RATINGS

15kV Class

9.5kV Phase-to-Ground
110kV BIL 1.2 x 50 microsecond wave
AC Withstand:
50kV 1 min. – dry
35kV 6 hr. – dry
45kV 10 sec. – wet
13kV Corona Extinction

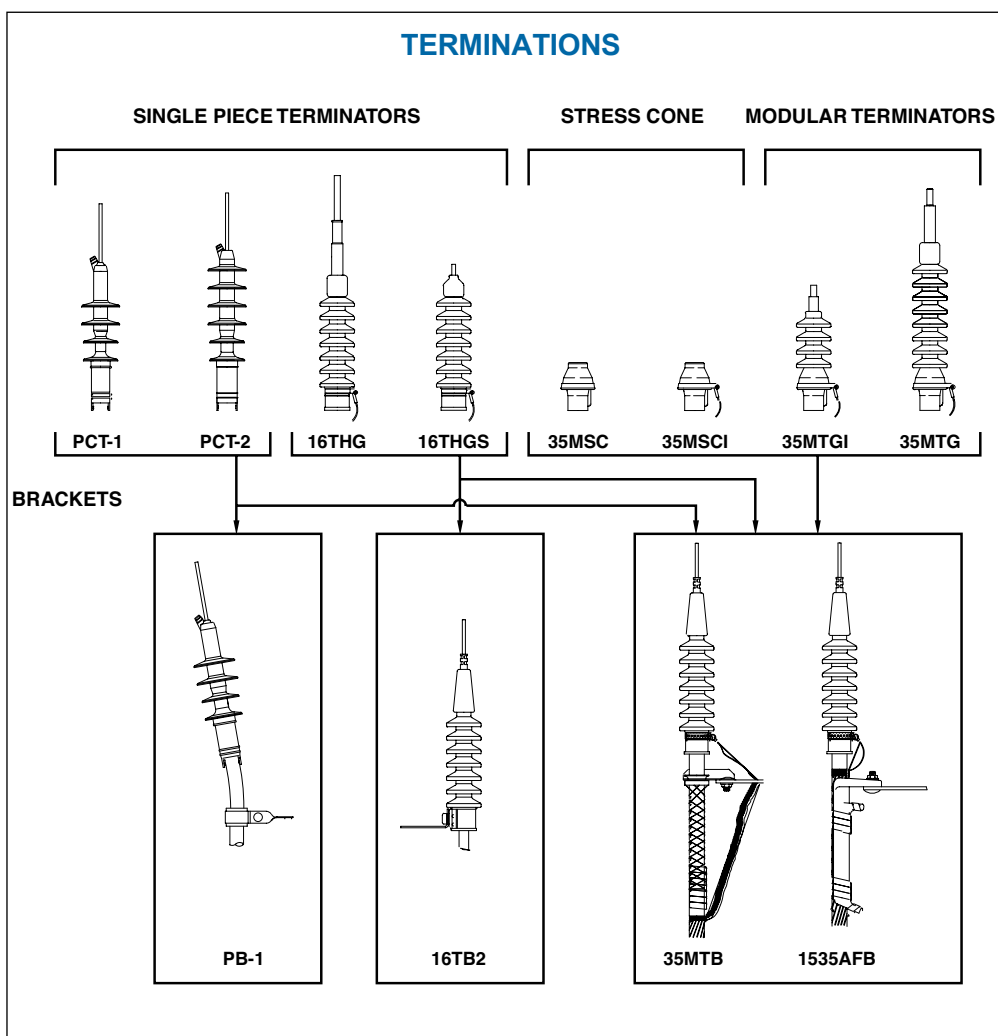
25kV Class

16kV Phase-to-Ground
150kV BIL 1.2 x 50 microsecond wave
AC Withstand:
65kV 1 min. – dry
55kV 6 hr. – dry
60kV 10 sec. – wet
21.5kV Corona Extinction











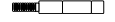

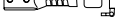



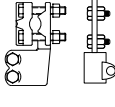
35kV Class

22kV Phase-to-Ground
200kV BIL 1.2 x 50 microsecond wave
AC Withstand:
90kV 1 min. – dry
75kV 6 hr. – dry
80kV 10 sec. – wet
30kV Corona Extinction

TERMINATIONS



TERMINATIONS

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|--|--|------------------|--|--|
|  | Single-Piece Terminator (Class 1) | 15kV 25kV | PCT1-1X-4 Use Table X9 PCT2-1X-4 Use Table X9 | N12, 14, 15, 22 N12, 14, 15, 23 |
| | Housing only | 15kV 25kV | PCT1-4 PCT2-4 | N13, 22 N13, 23 |
|  | Single-Piece Terminator (Class 1) | 15/25kV | 16THG-WX-4 Use Tables W12 and X8 | N2, 14 15 |
| | Housing only | 15/25kV | 16THGH-W Use Table W12 | |
|  | Single-Piece Terminator for solid conductor only (Class 1) | 15/25kV | 16THGS-WX Use Tables W12 and X4 | N3 |
|  | Stress Cone (Class 3) | ALL | 35MSC-W Use Table W11 | N17 |
| | Stress Cone w/Grd. Strap | ALL | 35MSCI-W Use Table W11 | N17 |
|  | Modules only | ALL | 35MG-W Use Table W13 | N11, 16 |
|  | Modular Terminator (Class 1) | 15kV | 35MTG-WX-4-CA Use Tables W13 and X3 | N2, 11 |
| | | 25kV | 35MTG-WX-8-CA Use Tables W13 and X3 | N2, 5, 11 |
| | | 35kV | 35MTG-WX-10-CA Use Tables W13 and X3 | N2, 6, 11 |
|  | Modular Terminator (Class 2) w/o Rain Cap | 15kV | 35MTGI-W-4 Use Table W13 | N11 |
| | | 25kV | 35MTGI-W-6 Use Table W13 | N11 |
| | | 35kV | 35MTGI-W-8 Use Table W13 | N7, 11 |
|  | Rod Contact for PCT | 15/25kV | 00700X Use Table X9 | N1, 14, 15 |
|  | Rod Contact for 16THG | 15/25kV | 16TCA-X Use Table X8 | N2, 8 |
|  | Solid Conductor Package for 16THGS | 15/25kV | 16CAS-X Use Table X4 | N3, 9 |
|  | 3/4"-16 Threaded Rod for MTG | ALL | 35MTGA-WX-1 Use Tables W13 and X3 | N2, 10, 11 18, 25 |
|  | 1"-14 Threaded Rod for MTG | ALL | 35MTGA-WX-2 Use Tables W13 and X3A | N2, 10, 11 19, 25 |
|  | Two-Hole Spade for MTG | ALL | 35MTGA-WX-3 Use Tables W13 and X3 | N4, 10, 11 20, 25 |
|  | Two-Hole Spade for PCT | ALL | 01000X Use Table X9 | N1 |
|  | One-Hole Spade for PCT | ALL | 01100X Use Table X9 | N1 |
|  | Universal Rod for MTG | ALL | 35MTGA-WX-4 Use Tables W13 and X3 | N2, 10, 11 21, 25 |
|  | Aerial Lugs for MTG Threaded Rod (Two-hole spade or bare wire) | ALL | 35AL-A | N10, 24 |

- N1. Use with PCT1 or PCT2 Terminators.
- N2. Includes contact rod, ground strap and rain cap.
- N3. Includes crimp ring, ground strap and rain cap.
- N4. Includes spade contact, ground strap and rain cap.
- N5. For KA thru PB sizes use 35MTG-WX-6-CA.
- N6. For KA thru PB sizes use 35MTG-WX-8-CA.
- N7. For KA thru PB sizes use 35MTGI-W-6.
- N8. Use with 16THG Terminators.
- N9. Use with 16THGS Terminators.
- N10. Use with 35MTG Terminators.
- N11. Refer to page 26 for detailed ordering instructions.
- N12. Includes rod contact as standard. Specify suffix "-3" in place of "-4" for two-hole spade lug. Specify suffix "-5" in place of "-4" for one-hole spade lug.
- N13. Specify suffix "-3" or "-5" in place of "-4" for two-hole spade lug housing or one-hole spade style housing.
- N14. Use 1X for an aluminum rod contact for aluminum conductors only.
- N15. Substitute 0X for 1X for a universal aluminum rod contact for aluminum or copper conductors.
- N16. Available in sizes from GA thru PB & are supplied qty. 2 per package.
- N17. Available in sizes EB thru PB.
- N18. For conductors from 1/0 thru 350 kcmil.
- N19. For conductors from 400 kcmil thru 1000 kcmil.
- N20. For conductors from #2 to 1000 kcmil.
- N21. For conductors from #6 thru 4/0.
- N22. Use for insulation dia. range from .640" thru 1.070".
- N23. Use for insulation dia. range from .830" thru 1.180".
- N24. Select symbol for "A" from aerial lug ordering information on page 26.
- N25. W13 Table provides sizing for rain cap.
X10 Table provides sizing for connectors.

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

For cable shield adapters and jacket seals, see page 28.

ORDERING INSTRUCTIONS FOR MODULAR TERMINATORS

35MTG - W X - N - C A

I = Indoor
Blank = Outdoor

Use Table W13, below

Use Table X3 or Table X3A

NOTE: Applicable table and available sizes depend upon connector style. Reference Connector Style Selection Chart and notes A through D.

Recommended Number of Modules

| | GA-JB | KA-PB |
|------|-------|-------|
| 15kV | 4 | 4 |
| 25kV | 8 | 6 |
| 35kV | 10 | 8 |

Connector Style Selection Chart

| Description | Available for Conductor Sizes | Symbol | Notes |
|----------------------|-------------------------------|--------|-------|
| 3/4"-16 Threaded Rod | 1/0 thru 350 kcmil | -1 | A |
| 1"-14 Threaded Rod | 400 thru 1000 kcmil | -2 | B |
| 2-Hole Spade | #2 thru 1000 kcmil | -3 | C |
| Universal Rod | #6 thru 4/0 | -4 | D |

Aerial Lugs for Threaded Rod Connectors Only

| Type | Connector | Symbol |
|--------------|-------------|--------|
| Bare Wire | 3/4"-16 Rod | -11 |
| 2-Hole Spade | 3/4"-16 Rod | -12 |
| Bare Wire | 1"-14 Rod | -21 |
| 2-Hole Spade | 1"-14 Rod | -22 |

NOTES:

- A. Available for 1/0 through 350 conductor sizes only. Use Table X3 for size selection.
- B. Available for 400 through 1000 conductor sizes only. Use Table X3A for size selection.
- C. Available for #2 through 1000 conductor sizes only. Use Table X3 for size selection.
- D. Available for #6 through 4/0 conductor sizes only. Use Table X3 for size selection.

Table W13

USE FOR FOLLOWING PRODUCTS
35MTG
35MTGI

| Cable Insulation Diameter in Inches | | Symbol for W |
|-------------------------------------|-------|--------------|
| MIN. | MAX. | |
| .775 | .885 | GA |
| .825 | .935 | GAB |
| .875 | .985 | GB |
| .930 | 1.040 | GH |
| .980 | 1.115 | HA |
| 1.040 | 1.175 | HAB |
| 1.095 | 1.240 | HB |
| 1.160 | 1.305 | HJ |
| 1.220 | 1.375 | JA |
| 1.285 | 1.395 | JAB |
| 1.355 | 1.520 | JB |
| 1.485 | 1.595 | KA |
| 1.530 | 1.640 | KAB |
| 1.575 | 1.685 | KB |
| 1.665 | 1.785 | PA |
| 1.755 | 1.875 | PB |

Table X3

USE FOR FOLLOWING PRODUCT
35MTG

FOR USE WITH STYLE -1, -3, & -4 CONNECTORS ONLY.

SEE NOTES A, C, & D FOR APPLICATION INFORMATION

| Conductor SIZE AWG or kcmil | Symbol for X | |
|-----------------------------|-----------------|----------------|
| | Strand./ Compr. | Compt./ Solid. |
| #6 | 5 | — |
| #5 | 4 | 5 |
| #4 | 3 | 4 |
| #3 | 2 | 3 |
| #2 | 1 | 2 |
| #1 | 0 | 1 |
| 1/0 | 10 | 0 |
| 2/0 | 20 | 10 |
| 3/0 | 30 | 20 |
| 4/0 | 40 | 30 |
| 250 | 250 | 40 |
| 300 | 300 | 250 |
| 350 | 350 | 300 |
| 400 | 400 | 350 |
| 450 | 450 | — |
| 500 | 500 | 400 |
| 550 | 550 | 450 |
| 600 | 600 | 500 |
| 650 | 650 | 550 |
| 700 | 750 | 600 |
| 750 | 750 | 650 |
| 800 | 800 | 750 |
| 900 | 900 | 800 |
| 1000 | 1000 | 900 |

Table X3A



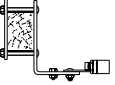
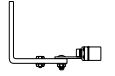




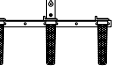



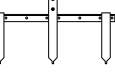
USE FOR FOLLOWING PRODUCT
35MTG

FOR USE WITH STYLE -2 CONNECTORS ONLY.

SEE NOTE B FOR APPLICATION INFORMATION

| Conductor SIZE AWG or kcmil | Symbol for X | |
|-----------------------------|-----------------|----------------|
| | Strand./ Compr. | Compt./ Solid. |
| 400 | 400 | — |
| 450 | 450 | 400 |
| 500 | 500 | 450 |
| 550 | 550 | 500 |
| 600 | 600 | 550 |
| 650-700 | 650 | 550 |
| 750 | 750 | 600 |
| 800 | 750 | 650 |
| 1000 | 1000 | — |

TERMINATIONS

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Notes |
|---|---|--------------------------|--|--|
|  | PCT Positioning Bracket | ALL | PB-1 | N1,12 |
|  | 16THG Bracket | ALL | 16TB-2 | N6 |
|  | Bracket for crossarm mounting 16THG | ALL | 16TB-3 | N6 |
|  | Bracket for riser pole mounting 16THG | ALL | 16TB-4 | N6 |
|  | Bracket for tri-mounting 16THG | ALL | 16TB-5 | N6 |
|  | KELLUMS GRIP Bracket | ALL ALL ALL ALL | 35MTB1-A 35MTB1-B 35MTB1-C 35MTB1-D | N1,2,6,7 N1,3,6,7 N1,4,6,7 N1,5,6,7 |
|  | KELLUMS Bracket for crossarm mounting | ALL ALL ALL ALL | 35MTB3-A 35MTB3-B 35MTB3-C 35MTB3-D | N1,2,6,7 N1,3,6,7 N1,4,6,7 N1,5,6,7 |
|  | Bracket (for riser pole mounting) | ALL ALL ALL ALL | 35MTB4-A 35MTB4-B 35MTB4-C 35MTB4-D | N1,2,6,7 N1,3,6,7 N1,4,6,7 N1,5,6,7 |
|  | KELLUMS Bracket for tri-mounting | ALL ALL ALL ALL | 35MTB5-A 35MTB5-B 35MTB5-C 35MTB5-D | N1,2,6,7 N1,3,6,7 N1,4,6,7 N1,5,6,7 |
|  | ALUMA FORM Bracket | ALL | 1535AFB-1 | N1,6,7,13 |
|  | ALUMA FORM Bracket for Crossarm mounting | ALL | 1535AFB-3 | N1,6,7,13 |
|  | ALUMA FORM Bracket for riser-pole mounting | ALL | 1535AFB-4 | N1,6,7,13 |
|  | ALUMA FORM Bracket for tri-mounting | ALL | 1535AFB-5 | N1,6,7,13 |

N1. Use with PCT-1 or PCT-2 Terminators.

N2. Fits overall cable O.D. from 1.195" to 1.625".

N3. Fits overall cable O.D. from .925" to 1.335".

N4. Fits overall cable O.D. from .890" to 1.185".

N5. Fits overall cable O.D. from 1.500" to 2.000".

N6. Use with 16THG & 16THGS Terminators.

N7. Use with MTG, MTG1 & MSC Terminators.

N8. For conductors from 1/0 thru 350 kcmil.

N9. For conductors from 400 kcmil thru 1000 kcmil.

N10. For conductors from #2 to 1000 kcmil.

N11. For conductors from #6 thru 4/0.

N12. Fits overall cable O.D. from .750" to 1.625".

N13. Fits overall cable O.D. from .750" to 2.000".

Refer to the **W** and **X** tables on pages 38 and 39 for sizing to cable insulation diameter and conductor size.

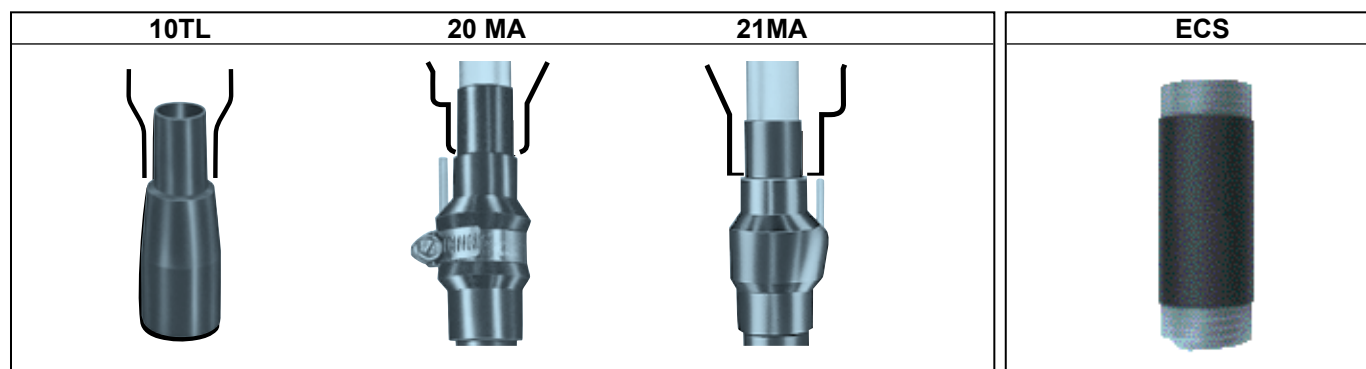
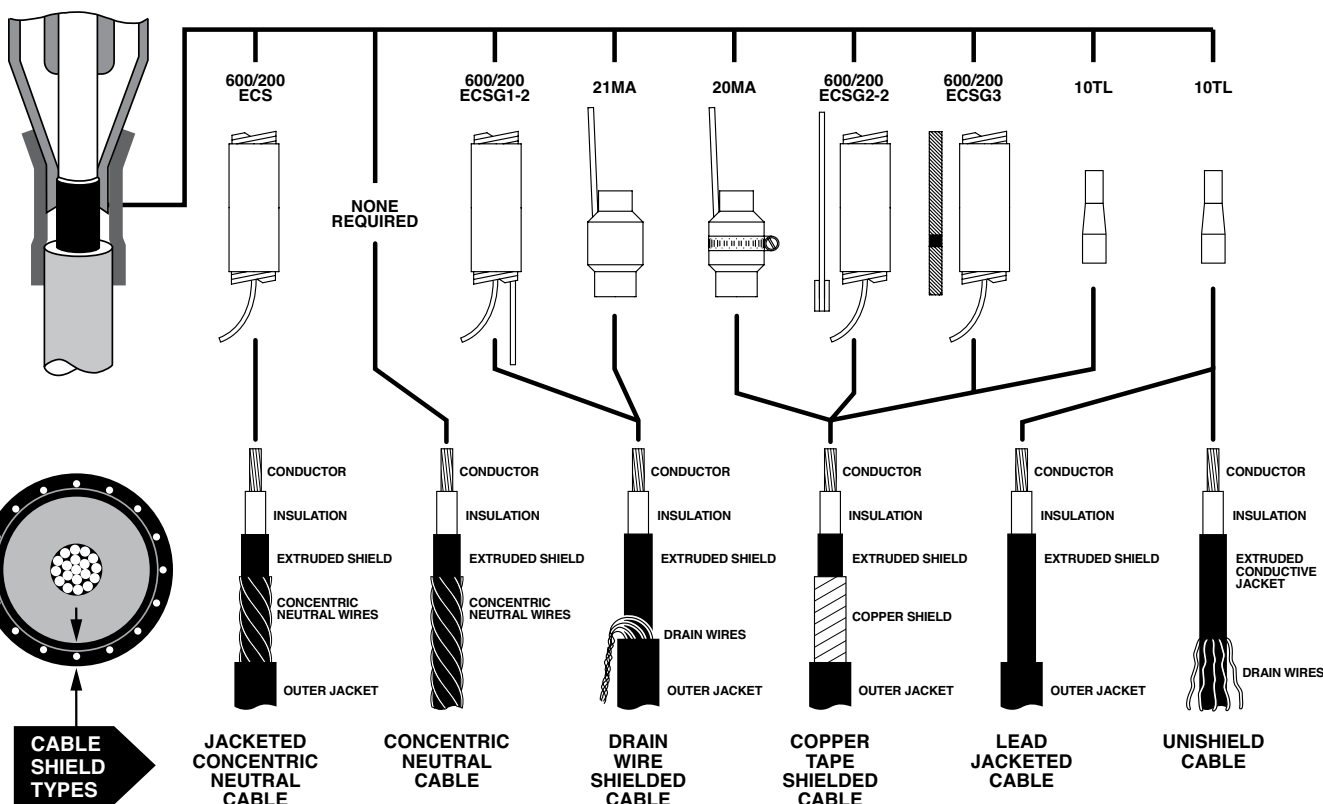
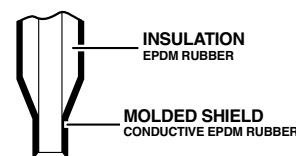
For cable shield adapters and jacket seals, see page 28.

CABLE ACCESSORIES


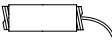

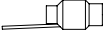

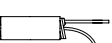
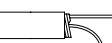
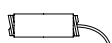
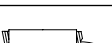


Shield Adapters, Sealing & Grounding

Elastimold elbows, cable joints and terminators have been designed for use on XLP, EPR or similar solid dielectric insulated power cables. These cables are available with a variety of optional shielding and jacket constructions. In order to properly mate and install the cable to an Elastimold product, the use of a shield adaptor, grounding kit or jacket seal may be required. The diagram below provides information concerning the application and selection of various shield adaptors, grounding kits and jacket seals for the most popular cable types. Consult the factory for recommendations concerning other cable constructions.

CABLE ENTRANCE DETAIL



| CABLE SHIELD ADAPTERS | | | | JACKET SEALS | | |
|-----------------------|--------|--------|--------|--------------|--------|--------|
| Cable Insulation Dia. | 10TL | 20MA | 21MA | Jacket O.D. | 200ECS | 600ECS |
| | inches | inches | inches | | inches | inches |
| min. | .495 | .530 | .530 | min. | .80 | 1.28 |
| max. | 1.875 | 1.780 | 1.780 | max. | 1.50 | 2.30 |

| Illustration (not to scale) | Description | ELASTIMOLD Part Number | Suffix | Notes |
|---|--|---|-------------|----------|
|  | Cold Shrinkable Jacket Seal | 200ECS | -S | N1,3 |
|  | Cold Shrinkable Jacket Seal | 600ECS | -S | N1,4 |
|  | Metallic Tape Shield Adapter | 20MA-W Use Table W14 for sizing | -OMA | N1,2,5,6 |
|  | Wire Shield Adapter | 21MA-W Use Table W14 for sizing | -1MA | N1,2,5,6 |
|  | Shield Adapter | 10TL-W Use Table W15 for sizing | -TL | N1,2 |
|  | Cold Shrinkable Seal w/ Copper Rod & Crimp Connector | 200ECSG1-2 | -SG1 | N1,3,5,6 |
|  | Cold Shrinkable Seal w/ Copper Rod & Crimp Connector | 600ECSG1-2 | -SG1 | N1,4,5,6 |
|  | Cold Shrinkable Seal w/ Copper Rod & Constant Force Spring | 200ECSG2-2 | -SG2 | N1,3,5,6 |
|  | Cold Shrinkable Seal w/ Copper Rod & Constant Force Spring | 600ECSG2-2 | -SG2 | N1,4,5,6 |
|  | Cold Shrinkable Seal w/ Copper Braid & Constant Force Spring | 200ECSG3 | -SG3 | N1,3,5,7 |
|  | Cold Shrinkable Seal w/ Copper Braid & Constant Force Spring | 600ECSG3 | -SG3 | N1,4,5,7 |

| Table W14 USE FOR 20MA 21MA | Insulation Inches | | Symbol for W |
|--------------------------------------|----------------------|-------|-----------------|
| | MIN. | MAX. | |
| | .530 | .680 | E |
| | .640 | .820 | F |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .980 | 1.180 | J |
| | 1.090 | 1.310 | K |
| | 1.180 | 1.465 | L |
| | 1.370 | 1.630 | M |
| | 1.515 | 1.780 | N |

N1. To order the kits as separate items, use the part numbers shown in the table. Example: To order a cold shrinkable tube as a separate item, use the part number 200ECS.

To order the kits as components of other items, add the suffix to the end of the part number. Example: To order a cold shrinkable jacket seal as a component of an elbow kit, use the part number 166LR-A5200-S.

N2. Only use this suffix with part numbers that designate a "W" housing size. Sizing the main component will also size the suffix adapter.

N3. Size range .80" to 1.50" jacket diameters. Maximum installed diameter is approx. 2".

N4. Size range 1.28" to 2.30" jacket diameters. Maximum installed diameter is approx. 2.75".

N5. Voltage rating equal to Elastimold product being used.




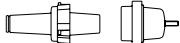

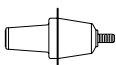

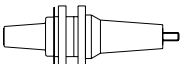
N6. Copper rod size is no. 6 for sizes FA thru HA and no. 2 for sizes HAB thru JB.

N7. Braid is equivalent to no. 6 copper rod for sizes FA thru HA and no. 2 copper rod for sizes HAB thru JB.

| Table W15 USE FOR 10TL | Insulation Inches | | Symbol for W |
|------------------------------|----------------------|-------|-----------------|
| | MIN. | MAX. | |
| | .495 | .585 | EB |
| | .525 | .635 | EF |
| | .575 | .585 | FA |
| | .625 | .735 | FAB |
| | .675 | .785 | FB |
| | .725 | .835 | FG |
| | .775 | .885 | GA |
| | .825 | .935 | GAB |
| | .875 | .985 | GB |
| | .930 | 1.040 | GH |
| | .980 | 1.115 | HA |
| | 1.040 | 1.175 | HAB |
| | 1.095 | 1.240 | HB |
| | 1.160 | 1.305 | HJ |
| | 1.220 | 1.375 | JA |
| | 1.285 | 1.395 | JAB |
| | 1.355 | 1.520 | JB |
| | 1.485 | 1.595 | KA |
| | 1.530 | 1.640 | KAB |
| | 1.575 | 1.685 | KB |
| | 1.755 | 1.875 | PB |

The Thomas & Betts Elastimold brand manufactures a complete line of 200 Amp deepwell and 600 Series apparatus bushings for use on transformers, switchgear and other equipment applications. The bushings incorporate IEEE 386 standard interfaces (shown on page 3) and are constructed of molded epoxy with stainless steel flanges for mounting by welding or gasketed clamp.

K1601PCC series bushings are provided with a molded epoxy flange for gasketed clamp mounting only. Bushings are available for use on AIR, OIL or SF6 insulated equipment. Units are rated for submersible, padmount, indoor, outdoor and other applications. Options include hold-down bail tabs and replaceable studs for 200 Amp deepwell bushings.

| Illustration (not to scale) | Description | Voltage Class | ELASTIMOLD Part Number | Bushing Shank Length | Notes |
|--|---|------------------------------------|---|---|--|
|  | Short Shank Well with bail tabs and non-replaceable well stud | 15/25kV 35kV | K1601PC-S1 L1601PC-S1 | 2 ³ / ₄ " | N3,7,14 |
| | Short Shank Well with bail tabs and with replaceable well stud | 15/25kV 35kV | K1601PC-S1-R L1601PC-S1-R | 2 ³ / ₄ " | N1,3,7,14 |
| | Short Shank Well without bail tabs and non-replaceable well stud | 15/25kV 35kV | K1601PC-S2 L1601PC-S2 | 2 ³ / ₄ " | N3,7,14 |
| | Short Shank Well without bail tabs and with replaceable well stud | 15/25kV 35kV | K1601PC-S2-R L1601PC-S2-R | 2 ³ / ₄ " | N1,3,7,14 |
|  | Long Shank Well with bail tabs and non-replaceable well stud | 15/25kV 35kV | K1601PC-T1 L1601PC-T1 | 9 ¹ / ₄ " | N3,7,14 |
| | Long Shank Well with bail tabs and with replaceable well stud | 15/25kV 35kV | K1601PC-T1-R L1601PC-T1-R | 9 ¹ / ₄ " | N1,3,7,14 |
| | Long Shank Well without bail tabs and non-replaceable well stud | 15/25kV 35kV | K1601PC-T2 L1601PC-T2 | 9 ¹ / ₄ " | N3,7,14 |
| | Long Shank Well without bail tabs and with replaceable well stud | 15/25kV 35kV | K1601PC-T2-R L1601PC-T2-R | 9 ¹ / ₄ " | N1,3,7,14 |
|  | Epoxy Flange Well with replaceable well stud | 15/25kV | K1601PCC-R | | N1,3,7,14 |
|  | Well w/Insert (K1601PCC-R & 1601A4) Well w/Insert (K1601PCC-R & 2701A4) | 15kV 25kV | 1601CABA4R 2701CABA4R | 2 ³ / ₄ " | N1,3,8,14 N1,3,9,14 |
|  | 200 A Deadbreak Bushing 200 A Deadbreak Bushing 200 A Deadbreak Bushing | 15/25kV 15/25kV 15/25kV | K180S4 K180T4 K180C4 | 2 ⁹ / ₁₆ " 7 ¹¹ / ₃₂ " 9 ¹ / ₄ " | N3,10,13 |
|  | 600 A Short Shank Bushing w.o./stud 600 A Short Shank Bushing w.o./stud 600 A Cu Short Shank Bushing w.o./stud | 15/25kV 35kV 15/25kV | K650S1 750S1 K675S1 | 2 ¹⁵ / ₁₆ " | N2,5,11,14,15 N2,5,12,14,16 N3,5,11,14,15 |
|  | 600 A Long Shank Bushing w.o./stud 600 A Cu Long Shank Bushing w.o./stud 600 A Long Shank Bushing w.o./stud 600 A 12" Long Shank Bushing w.o./stud | 15/25kV 15/25kV 35kV 35kV | K650T1 K675T1 750T1 750L12 | 8 ⁹ / ₁₆ " 8 ⁹ / ₁₆ " 8 ⁹ / ₁₆ " 12" | N2,5,11,14,15 N3,5,11,14,15 N2,5,12,14,16 N2,5,12,14,16 |
|  | 600 A In-Air Long Shank Bushing w.o./stud 600 A Cu In-Air Long Shank Bush. w/stud Boot & Collars for K600T1 to use in air | 15/25kV 15/25kV 15/25kV | K650TBC K675TBC 600BC | 8 ⁹ / ₁₆ " | N2,4,11,6,14 N3,5,11,6,14 N6 |

- N1. Replacement stud available separately. Specify 1601RS.
- N2. Equipped with standard aluminum conductor rod.
- N3. Equipped with copper conductor rod.
- N4. Includes 5/8-11 threaded stud at elbow end.
- N5. Includes 5/8-11 threaded hole at elbow end.
- N6. Provides increased creep and strike.
- N7. Includes 1601PPC1 shipping cap.
- N8. Includes 1601APC1 shipping cap.
- N9. Includes 2701-41 shipping cap.
- N10. Includes 180PPC shipping cap.

- N11. Includes 650PPC shipping cap.
- N12. Includes 750PPC1 shipping cap.
- N13. Parking stands for 200A deadbreak applications are available as separate items. Specify 151PS.
- N14. Parking stands for 200A loadbreak and 600A deadbreak applications are available as separate items. Specify 160PS.
- N15. Aluminum stud available separately. Specify 650SA.
- N16. Aluminum stud available separately. Specify 750SA.

REFERENCE SECTION

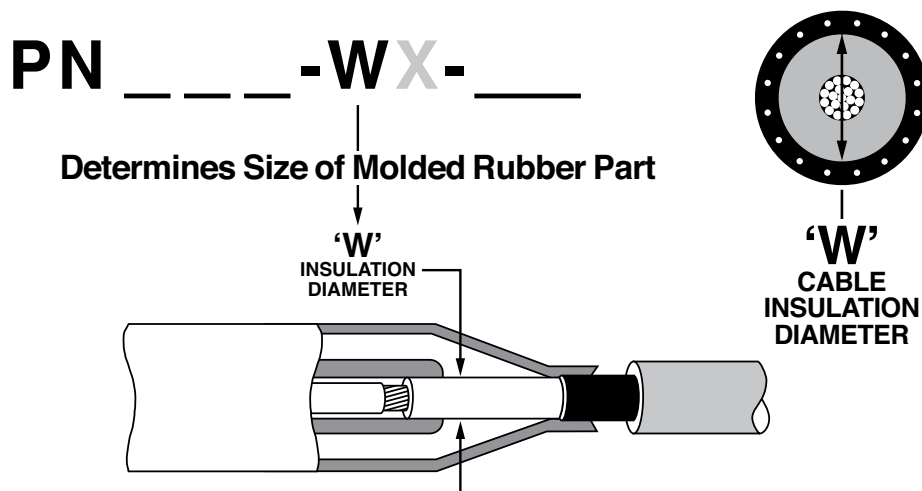
How to Specify Size-Sensitive Products 32-33

AEIC & ICEA Cable Insulation Diameter 34-36

Cable Conductor Diameter 37

WX Size Tables 38-39

Index..... 40-41



INSULATION DIAMETER SELECTION GUIDE

Elastimold Elbows, cable joints and terminations are designed for application on XLP, EPR and other solid dielectric insulated power cables. These components are constructed of molded elastomer and rely on an interference fit with the cable insulation diameter in order to maintain proper dielectric strength, creep path integrity and a water seal. Elastimold components are available in a wide range of sizes in order to accommodate a variety of cable insulation diameters.

Selection of size-sensitive components requires determining the cable insulation diameter. This can be done in several ways:

- Refer to the cable manufacturer's spec sheet for dimensions.
- Measure the cable.
- If the cable conforms to AEIC or ICEA standards and is:
 - 15kV, 175 mil wall thickness, use the table on page 34.
 - 15kV, 220 mil wall thickness, use the table on page 35.
 - 25kV, 260 mil wall thickness, use the table on page 35.
 - 35kV, 345 mil wall thickness, use the table on page 36.

After the cable insulation diameter minimum and maximum has been determined:

- Locate the W table indicated in the part number selection chart.
- Complete the ordering information by selecting and inserting the symbol (given in the W table) into the part number.

ORDERING EXAMPLES

AEIC

To complete the information required to order a K655LR-W0X elbow for use on standard AEIC 1000 kcmil compressed stranding aluminum 25kV cable with .260 inch thick insulation wall:

- Determine that the insulation diameter (for AEIC cable in the table on pages 34-36) is 1.645 – 1.770 inches.
- For this elbow, the part number selection chart on page 11 indicates to use table W7 for elbow sizing and table X6 for connector sizing.
- From table W7 the symbol for W is **N**.
- From table X6 the symbol for X is **410**.
- The completed part number therefore is K655LR-**N0410**.

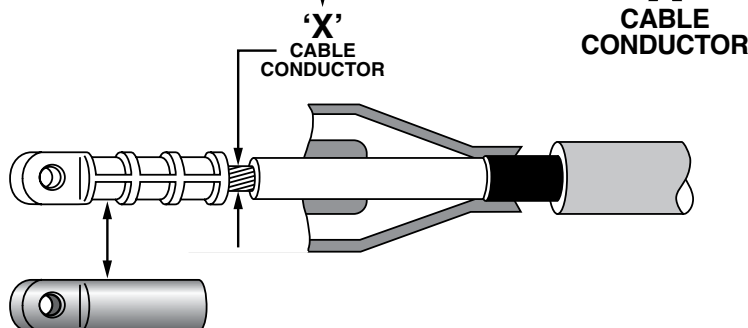
ICEA

To complete the information required to order a K655LR-W0X elbow for use on standard ICEA 1000 kcmil compressed stranding aluminum 25kV cable with .260 inch thick insulation wall:

- Determine that the insulation diameter (for ICEA cable in the table on pages 34-36) is 1.645 – 1.740 inches.
- For this elbow, the part number selection chart on page 11 indicates to use table W7 for elbow sizing and table X6 for connector sizing.
- From table W7 the symbol for W is **N**.
- From table X6 the symbol for X is **410**.
- The completed part number therefore is K655LR-**N0410**.

PN ____ - **W** **X** - ____

Determines Crimp Connector Size



'X'
CABLE
CONDUCTOR

CONNECTOR SELECTION GUIDE

Elastimold elbows, cable joints and terminations are furnished with crimp style cable connectors. As standard, these connectors are constructed with a tin-plated aluminum barrel filled with an oxide inhibitor. Most aluminum barrel connectors are universal and are designed for use on either aluminum or copper conductor cable.

When specified, all copper crimp style connectors can be furnished. These connectors are **ONLY** for use on copper conductor cable and are not for use with aluminum conductor cables. Bi-metallic connectors are constructed with a copper top and an aluminum barrel. Bi-metal connectors can be used on either aluminum or copper conductor cable and are furnished as standard with 200 Amp Loadbreak Elbows, 200 Amp Deadbreak Elbows, and PCT, 16 THG or MTG terminators with rod connectors.

Aluminum connectors used in PCJ Cable Joints are rated as follows:

- Aluminum conductor to aluminum conductor, cable rated
- Aluminum conductor to copper conductor, cable rated equal to the aluminum cable

Copper connectors used in PCJ Cable Joints are rated as follows:

- Copper conductor to copper conductor, cable rated

Selection and ordering the proper crimp connector requires determining information relative to the cable conductor as follows:

- Conductor size in AWG or kcmil
- Conductor type (stranded, compressed, compact or solid)
- Conductor material (aluminum or copper)

After the cable conductor information has been determined:

1. Locate the X table indicated in the part number selection chart.

2. Complete the ordering information by selecting and inserting the symbol (given in the X table) into the part number.

See the Ordering Example on page 32 for further information.

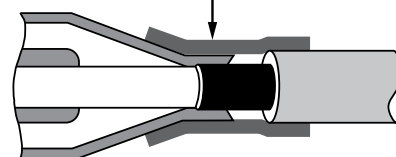
PN ____ - **W** **X** - ____

'Suffix'

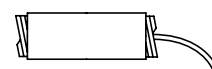
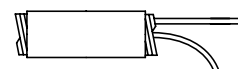
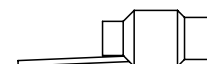
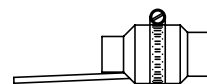
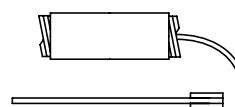
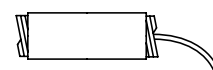
CABLE SHIELD
AND JACKET

Determines Required
Accessories (if any)

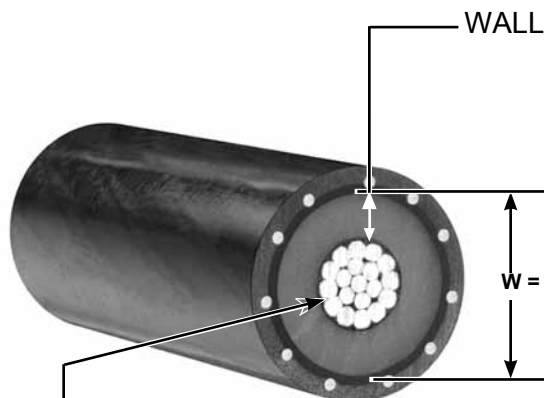
- Cable Shield Adaptors
- Cable Grounding Kits
- Cable Jacket Seal



Reference Pages 28 & 29
for application, selection and
ordering information.



15kV 100% – 175 mil Insulation (.175")
 15kV 133% – 220 mil Insulation (.220")
 25kV 100% – 260 mil Insulation (.260")
 35kV 100% – 345 mil Insulation (.345")



$W = \text{Insulation Diameter (Conductor + 2 X Conductor Shield + 2 X wall)}$

AEIC CS8-06

Specification for Extruded Dielectric,
 Shielded Power Cable Rated 5 - 46kV

AEIC-Calculated Diameters - Solid and Compressed Stranding from
 Tables C-4 & C-6 and Compact Stranding from Tables C-5 & C-7

ANSI/ICEA S-94-649-2004 & S-97-682-2000

Standard for Concentric Neutral Cables &
 Utility Shielded Power Cables Rated 5 - 46kV

ICEA-Concentric Stranding Table C-3, Compressed Stranding
 Table C-4, Compact Stranding Table C-5

ICEA Abbreviated, for additional cables please refer to the standard.

15kV Cable (100% level, 175 mil)

| Aluminum & Copper Conductor Size | Industry Standard | Solid Conductor | | Stranded Conductor | | Compressed Conductor | | Compact Conductor | |
|---|----------------------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|
| | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | |
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| #2 | AEIC | 0.610 | 0.700 | — | — | 0.635 | 0.725 | 0.620 | 0.710 |
| | ICEA | 0.610 | 0.695 | 0.645 | 0.730 | 0.635 | 0.720 | 0.620 | 0.705 |
| #1 | AEIC | 0.645 | 0.730 | — | — | 0.675 | 0.765 | 0.655 | 0.740 |
| | ICEA | 0.645 | 0.725 | 0.685 | 0.770 | 0.675 | 0.760 | 0.655 | 0.735 |
| 1/0 | AEIC | 0.680 | 0.770 | — | — | 0.715 | 0.805 | 0.690 | 0.775 |
| | ICEA | 0.680 | 0.760 | 0.725 | 0.810 | 0.715 | 0.800 | 0.690 | 0.775 |
| 2/0 | AEIC | — | — | — | — | 0.760 | 0.850 | 0.730 | 0.815 |
| | ICEA | — | — | 0.775 | 0.855 | 0.760 | 0.845 | 0.730 | 0.815 |
| 3/0 | AEIC | — | — | — | — | 0.810 | 0.900 | 0.775 | 0.865 |
| | ICEA | — | — | 0.825 | 0.905 | 0.810 | 0.895 | 0.775 | 0.860 |
| 4/0 | AEIC | — | — | — | — | 0.865 | 0.955 | 0.830 | 0.915 |
| | ICEA | — | — | 0.880 | 0.965 | 0.865 | 0.950 | 0.830 | 0.910 |
| 250 | AEIC | — | — | — | — | — | — | — | — |
| | ICEA | — | — | 0.935 | 1.020 | 0.920 | 1.005 | 0.880 | 0.965 |
| 350 | AEIC | — | — | — | — | 1.025 | 1.115 | 0.980 | 1.065 |
| | ICEA | — | — | 1.045 | 1.130 | 1.025 | 1.110 | 0.980 | 1.065 |
| 500 | AEIC | — | — | — | — | 1.150 | 1.245 | 1.100 | 1.185 |
| | ICEA | — | — | 1.175 | 1.260 | 1.150 | 1.235 | 1.100 | 1.185 |
| 750 | AEIC | — | — | — | — | 1.340 | 1.440 | 1.280 | 1.370 |
| | ICEA | — | — | 1.370 | 1.455 | 1.340 | 1.425 | 1.280 | 1.365 |
| 1000 | AEIC | — | — | — | — | 1.485 | 1.590 | 1.430 | 1.520 |
| | ICEA | — | — | 1.520 | 1.610 | 1.485 | 1.575 | 1.430 | 1.515 |

ICEA NOTE: Diameters specified in the above table are different than specified by AEIC CS8-00. Consult Accessory Manufacturer for proper selection of accessories. Diameters to be measured in accordance with 9.6.

15kV Cable (133% level, 220 mil)

| Aluminum & Copper Conductor Size | Industry Standard | Solid Conductor | | Stranded Conductor | | Compressed Conductor | | Compact Conductor | |
|----------------------------------|-------------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
| | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | |
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| #2 | AEIC | 0.700 | 0.790 | — | — | 0.725 | 0.815 | 0.710 | 0.800 |
| | ICEA | 0.700 | 0.790 | 0.735 | 0.825 | 0.725 | 0.815 | 0.710 | 0.800 |
| #1 | AEIC | 0.735 | 0.820 | — | — | 0.765 | 0.855 | 0.745 | 0.830 |
| | ICEA | 0.735 | 0.820 | 0.775 | 0.865 | 0.765 | 0.855 | 0.745 | 0.830 |
| 1/0 | AEIC | 0.770 | 0.860 | — | — | 0.805 | 0.895 | 0.780 | 0.865 |
| | ICEA | 0.770 | 0.855 | 0.815 | 0.905 | 0.805 | 0.895 | 0.780 | 0.865 |
| 2/0 | AEIC | — | — | — | — | 0.850 | 0.940 | 0.820 | 0.905 |
| | ICEA | — | — | 0.865 | 0.950 | 0.850 | 0.935 | 0.820 | 0.905 |
| 3/0 | AEIC | — | — | — | — | 0.900 | 0.990 | 0.865 | 0.955 |
| | ICEA | — | — | 0.915 | 1.000 | 0.900 | 0.985 | 0.865 | 0.955 |
| 4/0 | AEIC | — | — | — | — | 0.955 | 1.045 | 0.920 | 1.005 |
| | ICEA | — | — | 0.970 | 1.060 | 0.955 | 1.045 | 0.920 | 1.005 |
| 250 | AEIC | — | — | — | — | — | — | — | — |
| | ICEA | — | — | 1.025 | 1.115 | 1.010 | 1.100 | 0.970 | 1.060 |
| 350 | AEIC | — | — | — | — | 1.115 | 1.205 | 1.070 | 1.155 |
| | ICEA | — | — | 1.135 | 1.220 | 1.115 | 1.200 | 1.070 | 1.155 |
| 500 | AEIC | — | — | — | — | 1.240 | 1.335 | 1.190 | 1.275 |
| | ICEA | — | — | 1.265 | 1.355 | 1.240 | 1.330 | 1.190 | 1.275 |
| 750 | AEIC | — | — | — | — | 1.430 | 1.530 | 1.370 | 1.460 |
| | ICEA | — | — | 1.460 | 1.550 | 1.430 | 1.520 | 1.370 | 1.460 |
| 1000 | AEIC | — | — | — | — | 1.575 | 1.680 | 1.520 | 1.610 |
| | ICEA | — | — | 1.610 | 1.705 | 1.575 | 1.670 | 1.520 | 1.610 |

Separable Connectors
200A Loadbreak

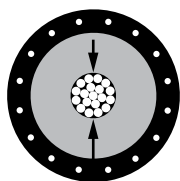
25kV Cable (100% level, 260 mil)

| Aluminum & Copper Conductor Size | Industry Standard | Solid Conductor | | Stranded Conductor | | Compressed Conductor | | Compact Conductor | |
|----------------------------------|-------------------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|------------------------------------|-------|
| | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | |
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| #1 | AEIC | 0.805 | 0.900 | — | — | 0.835 | 0.935 | 0.815 | 0.910 |
| | ICEA | 0.805 | 0.895 | 0.845 | 0.935 | 0.835 | 0.925 | 0.815 | 0.905 |
| 1/0 | AEIC | 0.840 | 0.940 | — | — | 0.875 | 0.975 | 0.850 | 0.945 |
| | ICEA | 0.840 | 0.930 | 0.885 | 0.980 | 0.875 | 0.965 | 0.850 | 0.940 |
| 2/0 | AEIC | — | — | — | — | 0.920 | 1.020 | 0.890 | 0.985 |
| | ICEA | — | — | 0.935 | 1.025 | 0.920 | 1.010 | 0.890 | 0.980 |
| 3/0 | AEIC | — | — | — | — | 0.970 | 1.070 | 0.935 | 1.035 |
| | ICEA | — | — | 0.985 | 1.075 | 0.970 | 1.060 | 0.935 | 1.030 |
| 4/0 | AEIC | — | — | — | — | 1.025 | 1.125 | 0.990 | 1.085 |
| | ICEA | — | — | 1.040 | 1.135 | 1.025 | 1.115 | 0.990 | 1.080 |
| 250 | AEIC | — | — | — | — | — | — | — | — |
| | ICEA | — | — | 1.095 | 1.190 | 1.080 | 1.175 | 1.040 | 1.135 |
| 350 | AEIC | — | — | — | — | 1.185 | 1.295 | 1.140 | 1.245 |
| | ICEA | — | — | 1.205 | 1.295 | 1.185 | 1.275 | 1.140 | 1.230 |
| 500 | AEIC | — | — | — | — | 1.310 | 1.425 | 1.260 | 1.365 |
| | ICEA | — | — | 1.335 | 1.430 | 1.310 | 1.405 | 1.260 | 1.350 |
| 750 | AEIC | — | — | — | — | 1.500 | 1.620 | 1.440 | 1.550 |
| | ICEA | — | — | 1.530 | 1.625 | 1.500 | 1.595 | 1.440 | 1.535 |
| 1000 | AEIC | — | — | — | — | 1.645 | 1.770 | 1.590 | 1.700 |
| | ICEA | — | — | 1.680 | 1.775 | 1.645 | 1.740 | 1.590 | 1.685 |

ICEA NOTE: Diameters specified in the above tables are different than specified by AEIC CS8-00. Consult Accessory Manufacturer for proper selection of accessories. Diameters to be measured in accordance with 9.6.

| | | 35kV Cable (100% level, 345 mil) | | | | | | | |
|---|----------------------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|---------------------------------------|-------|
| Aluminum & Copper Conductor Size | Industry Standard | Solid Conductor | | Stranded Conductor | | Compressed Conductor | | Compact Conductor | |
| | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | | Diameter in Inches Over Insulation | |
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| 1/0 | AEIC | 1.010 | 1.110 | — | — | 1.045 | 1.145 | 1.020 | 1.115 |
| | ICEA | 1.010 | 1.110 | 1.055 | 1.155 | 1.045 | 1.145 | 1.020 | 1.120 |
| 2/0 | AEIC | — | — | — | — | 1.090 | 1.190 | 1.060 | 1.155 |
| | ICEA | — | — | 1.105 | 1.200 | 1.090 | 1.190 | 1.060 | 1.160 |
| 3/0 | AEIC | — | — | — | — | 1.140 | 1.240 | 1.105 | 1.205 |
| | ICEA | — | — | 1.155 | 1.255 | 1.140 | 1.240 | 1.105 | 1.205 |
| 4/0 | AEIC | — | — | — | — | 1.195 | 1.295 | 1.160 | 1.255 |
| | ICEA | — | — | 1.210 | 1.310 | 1.195 | 1.295 | 1.160 | 1.260 |
| 250 | AEIC | — | — | — | — | — | — | — | — |
| | ICEA | — | — | 1.265 | 1.370 | 1.250 | 1.350 | 1.210 | 1.315 |
| 350 | AEIC | — | — | — | — | 1.355 | 1.470 | 1.310 | 1.420 |
| | ICEA | — | — | 1.375 | 1.475 | 1.355 | 1.455 | 1.310 | 1.410 |
| 500 | AEIC | — | — | — | — | 1.480 | 1.600 | 1.430 | 1.540 |
| | ICEA | — | — | 1.505 | 1.605 | 1.480 | 1.580 | 1.430 | 1.530 |
| 750 | AEIC | — | — | — | — | 1.670 | 1.795 | 1.610 | 1.725 |
| | ICEA | — | — | 1.700 | 1.800 | 1.670 | 1.770 | 1.610 | 1.710 |
| 1000 | AEIC | — | — | — | — | 1.815 | 1.945 | 1.760 | 1.875 |
| | ICEA | — | — | 1.850 | 1.955 | 1.815 | 1.920 | 1.760 | 1.865 |

ICEA NOTE: Diameters specified in the above table are different than specified by AEIC CS8-00. Consult Accessory Manufacturer for proper selection of accessories. Diameters to be measured in accordance with 9.6.

CABLE
CONDUCTOR

Conductor Diameters for Copper and Aluminum (Class B) Stranded, Compressed, Compact and Solid Cables

| Conductor Size AWG or kcmil | No. of Strands and their Nom. Strand Dia. (in.) | Cross-sectional Area | | Stranded Conductors (Inches) | Compressed Conductors (Inches) | Compact Conductors (Inches) | Solid Conductors (Inches) |
|--------------------------------|---|----------------------|-------------------------------|------------------------------------|--------------------------------------|-----------------------------------|---------------------------------|
| | | Square Inches | mm ² Conversion | | | | |
| 14 | 7 x .0242 | .0032 | 2.08 | .073 | — | — | .064 |
| 12 | 7 x .0305 | .0051 | 3.31 | .092 | — | — | .081 |
| 10 | 7 x .0385 | .0082 | 5.26 | .116 | — | — | .102 |
| 8 | 7 x .0486 | .0130 | 8.37 | .146 | — | — | .129 |
| 6 | 7 x .0612 | .0206 | 13.30 | .184 | — | — | .162 |
| 4 | 7 x .0772 | .0328 | 21.15 | .232 | — | — | .204 |
| 2 | 7 x .0974 | .0521 | 33.62 | .292 | .283 | .268 | .258 |
| 1 | 19 x .0664 | .0657 | 42.41 | .332 | .322 | .299 | .289 |
| 1/0 | 19 x .0745 | .0829 | 53.49 | .373 | .362 | .336 | .325 |
| 2/0 | 19 x .0837 | .1054 | 67.43 | .418 | .405 | .376 | — |
| 3/0 | 19 x .0940 | .1318 | 85.01 | .470 | .456 | .423 | — |
| 4/0 | 19 x .1055 | .1662 | 107.2 | .528 | .512 | .475 | — |
| 250 | 37 x .0822 | .1964 | 127 | .575 | .558 | .520 | — |
| 350 | 37 x .0973 | .2749 | 177 | .681 | .661 | .616 | — |
| 500 | 37 x .1162 | .3924 | 253 | .813 | .789 | .736 | — |
| 600 | 61 x .0992 | .4712 | 304 | .893 | .866 | .813 | — |
| 700 | 61 x .1071 | .5498 | 355 | .964 | .935 | .877 | — |
| 750 | 61 x .1109 | .5890 | 380 | .998 | .968 | .908 | — |
| 800 | 61 x .1145 | .6283 | 405 | 1.031 | 1.000 | .938 | — |
| 900 | 61 x .1215 | .7069 | 456 | 1.094 | 1.061 | .999 | — |
| 1000 | 61 x .1280 | .7854 | 507 | 1.152 | 1.117 | 1.060 | — |
| 1100 | 91 x .1099 | .8639 | 557 | 1.209 | 1.173 | — | — |
| 1200 | 91 x .1148 | .9425 | 608 | 1.263 | 1.225 | — | — |
| 1250 | 91 x .1172 | .9818 | 633 | 1.289 | 1.250 | — | — |
| 1300 | 91 x .1195 | 1.021 | 659 | 1.315 | 1.276 | — | — |
| 1400 | 91 x .1240 | 1.100 | 709 | 1.364 | 1.323 | — | — |
| 1500 | 91 x .1284 | 1.178 | 760 | 1.412 | 1.370 | — | — |
| 1600 | 127 x .1122 | 1.257 | 811 | 1.459 | 1.415 | — | — |
| 1700 | 127 x .1157 | 1.335 | 861 | 1.504 | 1.459 | — | — |
| 1750 | 127 x .1174 | 1.374 | 887 | 1.526 | 1.480 | — | — |
| 1800 | 127 x .1191 | 1.414 | 912 | 1.548 | 1.502 | — | — |
| 1900 | 127 x .1223 | 1.492 | 963 | 1.590 | 1.542 | — | — |
| 2000 | 127 x .1225 | 1.571 | 1010 | 1.632 | 1.583 | — | — |

| Table W1 USE FOR FOLLOWING PRODUCTS 151SP/SR 151LS/LY 165/166LR 165/166LRJS | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .575 | .740 | A |
| | .635 | .905 | B |
| | .805 | 1.060 | C |
| | .890 | 1.220 | D |

| Table W2 USE FOR FOLLOWING PRODUCTS 273RLR 274RLR | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .980 | 1.180 | J |
| | 1.090 | 1.310 | K |

| Table W3 USE FOR FOLLOWING PRODUCTS 375RLR 376RLR | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .850 | 1.050 | H |
| | .980 | 1.180 | J |
| | 1.090 | 1.310 | K |
| | 1.235 | 1.465 | L |

| Table W4 USE FOR FOLLOWING PRODUCTS 156LR 167/168RLR 167LRT | Cable Insulation Diameter in Inches | | Symbol for W |
|--|--|-------|-----------------|
| | MIN. | MAX. | |
| | .640 | .820 | F |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .980 | 1.180 | J |
| | 1.090 | 1.310 | K |

| Table W5 USE FOR FOLLOWING PRODUCTS 167/168ELR 273/274ELR | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .665 | .895 | 6689 |
| | .740 | .950 | 7495 |
| | .880 | 1.100 | 88110 |
| | 1.090 | 1.310 | K |

| Table W6 USE FOR FOLLOWING PRODUCTS 10EP 152EA 160CA* (*EB - FA Only) | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|------|-----------------|
| | MIN. | MAX. | |
| | .495 | .585 | EB |
| | .525 | .635 | EF |
| | .575 | .685 | FA |
| | .625 | .735 | FAB |
| | .675 | .785 | FB |
| | .725 | .835 | FG |
| | .775 | .885 | GA |
| | .825 | .935 | GAB |
| | .875 | .985 | GB |

| Table W7 USE FOR FOLLOWING PRODUCTS K656I/CY/CH K655/656LR K655/656SR 655/656LINK K655/656LINK 655/656ETP K655/656ETP 655/656RTP K655/656LRTP 655/656BI-LINK K655/656BI-LINK 655CA/CK/TCK | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .640 | .820 | F |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .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 |

| Table W8 USE FOR FOLLOWING PRODUCTS 15PCJ-1 15PCJ-2 | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .640 | .820 | F |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .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 |

| Table W9 USE FOR FOLLOWING PRODUCTS 25PCJ-1 25PCJ-2 755/756LR 755/756LINK 755/756ETP 755/756LRTP 755/756BI-LINK 755CA/CK/TCK | Cable Insulation Diameter in Inches | | Symbol for W |
|--|--|-------|-----------------|
| | MIN. | MAX. | |
| | .760 | .950 | G |
| | .850 | 1.050 | H |
| | .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 |

| Table W10 USE FOR FOLLOWING PRODUCTS 35PCJ-1 35PCJ-2 | Cable Insulation Diameter in Inches | | Symbol for W |
|--|--|-------|-----------------|
| | MIN. | MAX. | |
| | .850 | 1.050 | H |
| | .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 |

| Table W11 USE FOR FOLLOWING PRODUCTS 35MSC 35MSCI | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .495 | .585 | EB |
| | .525 | .635 | EF |
| | .575 | .685 | FA |
| | .625 | .735 | FAB |
| | .675 | .785 | FB |
| | .725 | .835 | FG |
| | .775 | .885 | GA |
| | .825 | .935 | GAB |
| | .875 | .985 | GB |
| | .930 | 1.040 | GH |
| | .980 | 1.115 | HA |
| | 1.040 | 1.175 | HAB |
| | 1.095 | 1.240 | HB |
| | 1.160 | 1.305 | HJ |
| | 1.220 | 1.375 | JA |
| | 1.285 | 1.395 | JAB |
| | 1.355 | 1.520 | JB |
| | 1.485 | 1.595 | KA |
| | 1.530 | 1.640 | KAB |
| | 1.575 | 1.685 | KB |
| | 1.665 | 1.785 | PA |
| | 1.755 | 1.875 | PB |

| Table W12 USE FOR FOLLOWING PRODUCTS 16THG 16THGS 16THGH | Cable Insulation Diameter in Inches | | Symbol for W |
|---|--|-------|-----------------|
| | MIN. | MAX. | |
| | .495 | .585 | EB |
| | .525 | .635 | EF |
| | .575 | .685 | FA |
| | .625 | .735 | FAB |
| | .675 | .785 | FB |
| | .725 | .835 | FG |
| | .775 | .885 | GA |
| | .825 | .935 | GAB |
| | .875 | .985 | GB |
| | .930 | 1.040 | GH |
| | .980 | 1.115 | HA |

| Table W16 USE FOR FOLLOWING PRODUCTS 275/276LR 275/276LRJS | Cable Insulation Diameter in Inches | | Symbol for W |
|--|--|-------|-----------------|
| | MIN. | MAX. | |
| | .635 | .905 | B |
| | .800 | 1.060 | CC |
| | .940 | 1.170 | DD |
| | 1.090 | 1.310 | E |

Please see page 26 for Table W13 and page 29 for Tables W14 and W15.

| Table X1 USE FOR FOLLOWING PRODUCTS 167/168ELR 273/274ELR 156LR 165/166LR 275/276LR 167LRT 167/168RLR 273/274RLR 00400 02500 02509 02702 02800 K151SP/SR K151LS/LY | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #4 | 200 | 190 |
| | #3 | 210 | 200 |
| | #2 | 220 | 210 |
| | #1 | 230 | 220 |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |
| | 250 | — | 270 |

| Table X2 USE FOR FOLLOWING PRODUCTS 375/376LR | Conductor Size AWG or kcmil | Symbol for X | |
|--|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |

| Table X3 USE FOR FOLLOWING PRODUCTS 35MTG NOTE: SEE PAGE 24 FOR DETAILED APPLICATION INFORMATION | Conductor Size AWG or kcmil | Symbol for X | |
|--|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #6 | 5 | — |
| | #5 | 4 | 5 |
| | #4 | 3 | 4 |
| | #3 | 2 | 3 |
| | #2 | 1 | 2 |
| | #1 | 0 | 1 |
| | 1/0 | 10 | 0 |
| | 2/0 | 20 | 10 |
| | 3/0 | 30 | 20 |
| | 4/0 | 40 | 30 |
| | 250 | 250 | 40 |
| | 300 | 300 | 250 |
| | 350 | 350 | 300 |
| | 400 | 400 | 350 |
| | 450 | 450 | — |
| | 500 | 500 | 400 |
| | 550 | 550 | 450 |
| | 600 | 600 | 500 |
| | 650 | 650 | 550 |
| | 700 | 750 | 600 |
| | 750 | 750 | 650 |
| | 800 | 800 | 750 |
| | 900 | 900 | 800 |
| | 1000 | 1000 | 900 |

| Table X3A USE FOR FOLLOWING PRODUCTS 35MTG NOTE: SEE PAGE 24 FOR DETAILED APPLICATION INFORMATION | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | 400 | 400 | — |
| | 450 | 450 | 400 |
| | 500 | 500 | 450 |
| | 550 | 550 | 500 |
| | 600 | 600 | 500 |
| | 650-700 | 650 | 550 |
| | 750 | 750 | 600 |
| | 800 | 750 | 650 |
| | 1000 | 1000 | — |

| Table X4 USE FOR FOLLOWING PRODUCTS 16THGS 16CAS | Riser Conductor Size. | Symbol |
|---|-----------------------|--------|
| | AWG Solid | for X |
| | #2 | 2 |
| | #1 | 2 |
| | 1/0 | 10 |
| | 2/0 | 20 |
| | 3/0 | 30 |
| | 4/0 | 30 |

| Table X6 USE FOR FOLLOWING PRODUCTS 655/656LRTP K655/656LRTP 755/756LRTP K655I/Y/H K655/656LR 755/756LR K655/656SR 655/656LINK K655/656LINK 755/756LINK 655/656ETP K655/656ETP 755/756ETP 655/656BI-LINK K655/656BI-LINK 755BI-LINK 655CK 755CK 655TCK 03600 03602 03700 03702 | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #2 | 220 | 210 |
| | #1 | 230 | 220 |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |
| | 250 | 280 | 270 |
| | 300 | 290 | 280 |
| | 350 | 300 | 290 |
| | 400 | 310 | 300 |
| | 450 | 320 | 310 |
| | 500 | 330 | 320 |
| | 550 | 340 | 320 |
| | 600 | 350 | 330 |
| | 650 | 360 | 340 |
| | 700 | 380 | 350 |
| | 750 | 380 | 360 |
| | 800 | 390 | 360 |
| | 900 | 400 | 380 |
| | 1000 | 410 | 400 |
| | 1250 | 440 | 420 |

| Table X7 USE FOR FOLLOWING PRODUCTS 15PCJ1 25PCJ1 35PCJ1 15PCJ2 25PCJ2 35PCJ2 | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #6 | 180 | — |
| | #5 | 190 | 180 |
| | #4 | 200 | 190 |
| | #3 | 210 | 200 |
| | #2 | 220 | 210 |
| | #1 | 230 | 220 |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |
| | 250 | 280 | 270 |
| | 300 | 290 | 280 |
| | 350 | 300 | 290 |
| | 400 | 310 | 300 |
| | 450 | 320 | 310 |
| | 500 | 330 | 310 |
| | 550 | 340 | 320 |
| | 600 | 350 | 330 |
| | 650 | 360 | 340 |
| | 700 | 380 | 350 |
| | 750 | 380 | 360 |
| | 800 | 390 | 380 |
| | 900 | 400 | 380 |
| | 1000 | 410 | 400 |
| | 1250 | 440 | 420 |

| Table X8 USE FOR FOLLOWING PRODUCTS 16THG 16TCA | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #6 | 180 | — |
| | #5 | 190 | 180 |
| | #4 | 200 | 190 |
| | #3 | 210 | 200 |
| | #2 | 220 | 210 |
| | #1 | 230 | 220 |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |

| Table X9 USE FOR FOLLOWING PRODUCTS PCT1 PCT2 01000 01010 | Conductor Size AWG or kcmil | Symbol for X | |
|---|-----------------------------------|--------------------|-------------------|
| | | Strand./ Compr. | Compt./ Solid. |
| | #2 | 220 | 210 |
| | #1 | 230 | 220 |
| | 1/0 | 240 | 230 |
| | 2/0 | 250 | 240 |
| | 3/0 | 260 | 250 |
| | 4/0 | 270 | 260 |

| Catalog Number | Page Number | Catalog Number | Page Number | Catalog Number | Page Number | Catalog Number | Page Number |
|----------------|--------------|----------------|-------------|----------------|-------------|----------------|-------------|
| 00400X | .7 | 160DRG | .5 | 25PCJ1QX | .23 | 35MTB4-A | .27 |
| 00700X | .25 | 160GLR | .5,15,17 | 25PCJ1W1X | .23 | 35MTB4-B | .27 |
| 01000X | .25 | 161GP | .5 | 25PCJ1W2X | .23 | 35MTB4-C | .27 |
| 01100X | .25 | 161SOP | .5 | 25PCJ2GX | .23 | 35MTB4-D | .27 |
| 02500X | .7,9 | 164FT | .5 | 25PCJ2HX | .23 | 35MTB5-A | .27 |
| 02509X | .7 | 164FT2-AB | .5 | 25PCJ2JX | .23 | 35MTB5-B | .27 |
| 02702X | .7,9 | 164FT3-AB | .5 | 25PCJ2KX | .23 | 35MTB5-C | .27 |
| 02800X | .7 | 164FT4-AB | .5 | 25PCJ2LX | .23 | 35MTB5-D | .27 |
| 03600X | .17 | 164FTV | .5 | 25PCJ2MX | .23 | 35MTGA-WX-1 | .25 |
| 03602X | .17 | 164J2 | .7 | 25PCJ2NX | .23 | 35MTGA-WX-2 | .25 |
| 03700X | .11,15,17,19 | 164J2-5 | .7 | 25PCJ2PX | .23 | 35MTGA-WX-3 | .25 |
| 03702X | .11,15,17,19 | 164J3 | .7 | 25PCJ2QX | .23 | 35MTGA-WX-4 | .25 |
| 10EP-W | .7,9 | 164J3-5 | .7 | 25PCJ2W1X | .23 | 35MTGI-W-4 | .25 |
| 10TL-W | .29 | 164J4 | .7 | 25PCJ2W2X | .23 | 35MTGI-W-6 | .25 |
| 150BA | .9 | 164J4-5 | .7 | 2701A4 | .5 | 35MTGI-W-8 | .25 |
| 150TB1 | .9 | 164SOP | .5 | 2701CABA4R | .30 | 35MTG-WX-10-CA | .25 |
| 150TB2 | .9 | 165LRJS-W5X | .5 | 2701EA4 | .5 | 35MTG-WX-4-CA | .25 |
| 150TB3 | .9 | 165LR-W5X | .5 | 2702A1 | .5 | 35MTG-WX-8-CA | .25 |
| 150TB4 | .9 | 166LRF | .7 | 272GP | .5 | 35PCJ1HX | .23 |
| 150TB5 | .9 | 166LRJS-W5X | .5 | 272SOP | .5 | 35PCJ1JX | .23 |
| 151GP | .9 | 166LR-W5X | .5 | 273DELR-W5X | .5 | 35PCJ1KX | .23 |
| 152EA-W | .9 | 167DELR-W5X | .5 | 273DLR-W5X | .5 | 35PCJ1LX | .23 |
| 1535AFB-1 | .27 | 167DLR-W5X | .5 | 273DRG | .5 | 35PCJ1MX | .23 |
| 1535AFB-3 | .27 | 167DRG | .5 | 273ELR-W5X | .5 | 35PCJ1NX | .23 |
| 1535AFB-4 | .27 | 167ELR-W5X | .5 | 273RLR-W5X | .5 | 35PCJ1PX | .23 |
| 1535AFB-5 | .27 | 167LRT-W5X | .5 | 274DELR-W5X | .5 | 35PCJ1QX | .23 |
| 156DLR-W5X | .9 | 167RLR-W5X | .5 | 274DRG | .5 | 35PCJ1W1X | .23 |
| 156LRF | .9 | 168DELR-W5X | .5 | 274ELR-W5X | .5 | 35PCJ1W2X | .23 |
| 156LR-W5X | .9 | 168DRG | .5 | 274FLR H-W0X | .5 | 35PCJ2HX | .23 |
| 15PCJ1FX | .23 | 168ELR-W5X | .5 | 274FT | .5 | 35PCJ2JX | .23 |
| 15PCJ1GX | .23 | 168FLR H-W0X | .5 | 274FT2-AB | .5 | 35PCJ2KX | .23 |
| 15PCJ1HX | .23 | 168RLR-W5X | .5 | 274FT3-AB | .5 | 35PCJ2LX | .23 |
| 15PCJ1JX | .23 | 16CAS-X | .25 | 274FT4-AB | .5 | 35PCJ2MX | .23 |
| 15PCJ1KX | .23 | 16TB-2 | .27 | 274FTV | .5 | 35PCJ2NX | .23 |
| 15PCJ1LMX | .23 | 16TB-3 | .27 | 274J2 | .7 | 35PCJ2PX | .23 |
| 15PCJ1LX | .23 | 16TB-4 | .27 | 274J2-5 | .7 | 35PCJ2QX | .23 |
| 15PCJ1MX | .23 | 16TB-5 | .27 | 274J3 | .7 | 35PCJ2W1X | .23 |
| 15PCJ1NX | .23 | 16TCA-X | .25 | 274J3-5 | .7 | 35PCJ2W2X | .23 |
| 15PCJ1PX | .23 | 16THGH-W | .25 | 274J4 | .7 | 3701A3 | .5 |
| 15PCJ1QX | .23 | 16THGS-WX | .25 | 274J4-5 | .7 | 3701A4 | .5 |
| 15PCJ1W1X | .23 | 16THG-WX-4 | .25 | 274LRF | .7 | 3702A1 | .5 |
| 15PCJ1W2X | .23 | 200AT | .5 | 274RLR-W5X | .5 | 370GLR | .5,15,17 |
| 15PCJ2FX | .23 | 200ECS | .29 | 274SOP | .5 | 370TR | .5,15,17 |
| 15PCJ2GX | .23 | 200ECSG1-2 | .29 | 275LRJS-W5X | .5 | 371FT | .5 |
| 15PCJ2HX | .23 | 200ECSG2-2 | .29 | 275LR-W5X | .5 | 372SOP | .5 |
| 15PCJ2JX | .23 | 200ECSG3 | .29 | 276BWP | .5 | 373FT | .5 |
| 15PCJ2KX | .23 | 200TC-1 | .7,11 | 276LRJS-W5X | .5 | 373FT2-AB | .5 |
| 15PCJ2LX | .23 | 200TC-2 | .7,11 | 276LR-W5X | .5 | 373FT3-AB | .5 |
| 15PCJ2MX | .23 | 200TC-4 | .7,11 | 35AL-A | .25 | 373FT4-AB | .5 |
| 15PCJ2NX | .23 | 20MA-W | .29 | 35MG-W | .25 | 373FTV | .5 |
| 15PCJ2PX | .23 | 21MA-W | .29 | 35MSCI-W | .25 | 373J2 | .7 |
| 15PCJ2QX | .23 | 25PCJ1GX | .23 | 35MSC-W | .25 | 373J2-5 | .7 |
| 15PCJ2W1X | .23 | 25PCJ1HX | .23 | 35MTB1-A | .27 | 373J3 | .7 |
| 15PCJ2W2X | .23 | 25PCJ1JX | .23 | 35MTB1-B | .27 | 373J3-5 | .7 |
| 1601A4 | .5 | 25PCJ1KX | .23 | 35MTB1-C | .27 | 373J4 | .7 |
| 1601CABA4R | .30 | 25PCJ1LMX | .23 | 35MTB1-D | .27 | 373J4-5 | .7 |
| 1601EA4 | .5 | 25PCJ1LX | .23 | 35MTB3-A | .27 | 375DRG | .5 |
| 1602A3R | .5 | 25PCJ1MX | .23 | 35MTB3-B | .27 | 375LR-W5X | .5 |
| 160CA-W | .7,9 | 25PCJ1NX | .23 | 35MTB3-C | .27 | 375LRF | .7 |
| 160DR | .5 | 25PCJ1PX | .23 | 35MTB3-D | .27 | 376DRG | .5 |

| Catalog Number | Page Number | Catalog Number | Page Number | Catalog Number | Page Number | Catalog Number | Page Number |
|-------------------------|-------------|-------------------------|-------------|--------------------------|-------------|-------------------------|-------------|
| 376LR-W5X | 5 | 750LBM-3 | 15 | K151SP-W0X | 9 | K655L2 | 13 |
| 600AT | 15,17 | 750LINK-OK | 15 | K151SR-W0X | 9 | K655L3 | 13 |
| 600ATM | 11,13,17 | 750LK-C | 15 | K1601PCC-R | 30 | K655L4 | 13 |
| 600BC | 30 | 750LK-C-VB | 15 | K1601PC-S1 | 30 | K655LINK-B-LR-W0X-A-DRG | 15 |
| 600ECS | 29 | 750LRTPA2 | 17 | K1601PC-S1-R | 30 | K655LINK-B-LR-W0X-B-DRG | 15 |
| 600ECSG1-2 | 29 | 750LT-B | 15 | K1601PC-S2 | 30 | K655LINK-C-LR-W0X-A-DRG | 15 |
| 600ECSG2-2 | 29 | 750S1 | 30 | K1601PC-S2-R | 30 | K655LINK-C-LR-W0X-B-DRG | 15 |
| 600ECSG3 | 29 | 750SA | 11 | K1601PC-T1 | 30 | K655LRTP-W0X-DRG | 17 |
| 600RRT | 19 | 750SOP | 11 | K1601PC-T1-R | 30 | K655LR-W0X | 11 |
| 600SW | 11,13 | 750STICK-OK | 17 | K1601PC-T2 | 30 | K655RETP | 17 |
| 600YADT-1 | 19 | 750T1 | 30 | K1601PC-T2-R | 30 | K655RLRTP | 17 |
| 650AB | 15 | 750VSA | 11 | K1601WFT | 5 | K655SR-W0X | 11 |
| 650ABV | 15 | 750WINDOW-OK | 17 | K1601WFTV | 5 | K655VSL2 | 13 |
| 650ARR-X | 11,19 | 755BE | 11 | K1601WJ2 | 7 | K655VSL3 | 13 |
| 650BA | 19 | 755BEA2 | 17 | K1601WJ2-5 | 7 | K655VSL4 | 13 |
| 650BAW | 19 | 755BI-LINK-B-LR-W0X-DRG | 15 | K1601WJ3 | 7 | K655YBSR | 19 |
| 650CAB | 15 | 755BI-LINK-C-LR-W0X-DRG | 15 | K1601WJ3-5 | 7 | K655YDR | 19 |
| 650CAM-OK | 15 | 755BLR | 11 | K1601WJ4 | 7 | K655YDSR-W0X | 19 |
| 650ET | 17 | 755BVS | 11 | K1601WJ4-5 | 7 | K655YSR-W0X | 19 |
| 650ETP | 11,17 | 755CA-W | 11 | K180C4 | 30 | K656BLR | 11 |
| 650GP | 11 | 755CK-W0X | 11,15,17 | K180S4 | 30 | K656BRLR | 11 |
| 650GYDR | 19 | 755CK-W0X-ARR | 11 | K180T4 | 30 | K656CH-BUS | 19 |
| 650LINK-OK | 15 | 755DLR-W0X | 11 | K650BIP | 11 | K656CH-HP | 19 |
| 650LK-C | 15 | 755ETP-W0X-DRG | 17 | K650CAB | 15 | K656CH-W0X | 19 |
| 650LK-C-VB | 15 | 755L1 | 13 | K650CAM-OK | 15 | K656DLR-W0X | 11 |
| 650LRTPA3 | 17 | 755L2 | 13 | K650CP | 11 | K656CY-BUS | 19 |
| 650LT-B | 15 | 755L3 | 13 | K650ETP | 11,17 | K656CY-HP | 19 |
| 650RS | 15 | 755L4 | 13 | K650J2 | 13 | K656CY-W0X | 19 |
| 650RSC | 15 | 755LINK-B-LR-W0X-A-DRG | 15 | K650J3 | 13 | K656DLR-W0X | 11 |
| 650SA | 11 | 755LINK-B-LR-W0X-B-DRG | 15 | K650J4 | 13 | K656DR | 11 |
| 650STICK-OK | 17 | 755LINK-C-LR-W0X-A-DRG | 15 | K650LB | 15 | K656DRG | 11 |
| 650VSA | 11 | 755LINK-C-LR-W0X-B-DRG | 15 | K650LBM-3 | 15 | K656I-BUS | 19 |
| 650WINDOW-OK | 17 | 755LRTP-W0X-DRG | 17 | K650LINK-OK | 15 | K656I-HP | 19 |
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| 655BEA3 | 17 | 755TCK-W0X | 17 | K650LK-C-VB | 15 | K656LR-W0X | 11 |
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| 655ETP-W0X-DRG | 17 | 756LR-W0X | 11 | K650SOP | 11 | L1601PC-S1-R | 30 |
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| 655LINK-B-LR-W0X-B-DRG | 15 | J3- | 21 | K650STICK-OK | 17 | L1601PC-S2-R | 30 |
| 655LINK-C-LR-W0X-A-DRG | 15 | J4- | 21 | K650T1 | 30 | L1601PC-T1 | 30 |
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| 655LRTP-W0X-DRG | 17 | J6- | 21 | K650WINDOW-OK | 17 | L1601PC-T2 | 30 |
| 655RETP | 17 | K1501A1 | 9 | K650YBIP | 19 | L1601PC-T2-R | 30 |
| 655RLRTP | 17 | K1501FT | 9 | K651CP | 11 | M276BWP | 5 |
| 655TCK-W0X | 17 | K1501J2-U | 9 | K655BE | 11 | PB-1 | 27 |
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| 750CAB | 15 | K1501J4-U | 9 | K655BI-LINK-B-LR-W0X-DRG | 15 | PCT1-4 | 25 |
| 750CAM-OK | 15 | K1502A1 | 9 | K655BI-LINK-C-LR-W0X-DRG | 15 | PCT2-1X-4 | 25 |
| 750CP | 11 | K150DP | 9 | K655BLR | 11 | PCT2-4 | 25 |
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| 750GP | 11 | K150S | 9 | K655BSR | 11 | | |
| 750J2 | 13 | K150SOP | 9 | K655BVS | 11 | | |
| 750J3 | 13 | K150T | 9 | K655DLR-W0X | 11 | | |
| 750J4 | 13 | K151LS-W1X | 9 | K655DSR-W0X | 11 | | |
| 750L12 | 30 | K151LY-W1X | 9 | K655ETP-W0X-DRG | 17 | | |
| 750LB | 15 | K151SOP | 9 | K655L1 | 13 | | |

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