

250A Deadbreak Elbow Connector

Up to 24kV



The Elastimold® ESE25 Elbow Connector is a fully-rated up to 24kV, 250A Class Deadbreak connector. It has a standard A interface for connecting up to 24kV, 250A Deadbreak bushing inserts, junctions and other accessories. The ESE25 is equipped with an integral voltage test point.

Features and benefits

- Up to 24kV, 250A Deadbreak Elbow
- Fully shielded, fully submersible molded rubber housing
- 100% peroxide-cured construction includes insulation and conductive EPDM materials
- Provision for ground wire connection
- Wide cable range with minimum number of sizes

Applications

Medium voltage deadbreak applications up to 24kV and 250A using EN50180 & EN50181 Interface A.

Materials

100% peroxide-cured EPDM.

Ambient operating temperature range

- 40°C ~ 65°C

Ratings

Meets IEC 60502-4, CENELEC HD 629.1 S3

$U_0/U(U_m)$

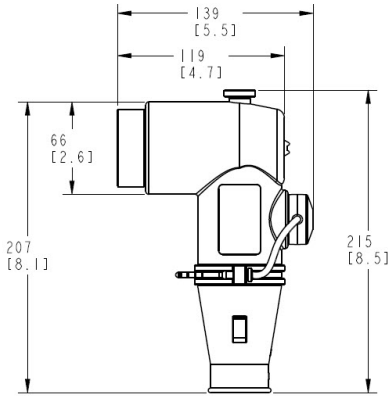
For 6.35/11(12)kV Voltage Class:

6.35kV Phase-to-Ground U_0 – Operating Voltage
 11kV Phase-to-Phase U
 95kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
 28.5kV AC – Five minute withstand
 Max 10pC at 12.5kV
 250A – Continuous

For 12/20(24)kV Voltage Class:

12kV Phase-to-Ground U_0 – Operating Voltage
 20kV Phase-to-Phase U
 125kV BIL – Impulse Withstand (1.2 x 50 microsecond wave)
 54kV AC – Five minute withstand
 Max 10pC at 24kV
 250A – Continuous

Interface A: EN50180 and EN50181



| Voltage Class | Certified Cable Conductor Size MIN |
|---------------|------------------------------------|
| 12kV | 16 mm ² |
| 24kV | 35 mm ² |

Part Number Selection

1. Determine Umax needed.
2. Choose code relevant to cable size (mm²).
3. Choose code for armor type.
4. Choose the correct code for the cable adapter being used.
5. Choose Differentiator code if applicable.

Example:

The ordering number for an Elbow Connector with 24kV Umax, 150 mm², unarmored, with J cable adapter, and AA as differentiator is ESE25JAJ(AA through ZZ if applicable). Cable adapter selection is determined based on the insulation diameter of the cable.

| Umax | |
|------|------------|
| Code | Type |
| 5 | Up to 24kV |

| Cable Conductor MAX mm ² Code | |
|--|-----------------|
| Code | mm ² |
| J | 150 |

| Cable Type Code | |
|-----------------|-----------|
| Code | Type |
| A | Unarmored |

| Cable Adapter Code | |
|---------------------|---------------|
| Code | Cable Adapter |
| Letters A through Z | |

| Differentiator (if applicable) | |
|--------------------------------|--------|
| Code | Phases |
| Letters AA through ZZ | |

| Cable Adapter | Cable Insulation Diameter mm | | Cable Insulation Diameter Inches | |
|---------------|------------------------------|-------|----------------------------------|------|
| | MIN | MAX | MIN | MAX |
| E | 13.46 | 17.27 | 0.53 | 0.68 |
| F | 16.26 | 20.83 | 0.64 | 0.82 |
| G | 19.30 | 24.13 | 0.76 | 0.95 |
| H | 21.59 | 26.67 | 0.85 | 1.05 |
| J | 24.89 | 29.97 | 0.98 | 1.18 |

| | | | | | |
|-------------|-------------|--|------------------------|---------------------------|--|
| ESE2 | Umax | Cable Conductor MAX mm² Code | Cable Type Code | Cable Adapter Code | Differentiator Code (if applicable) |
|-------------|-------------|--|------------------------|---------------------------|--|

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The 1 Phase kit contains the following

*: Last letter in part number corresponds to cable adapter size.

Example of F size Cable Adapter:

ESX6-MAAF

** : Connector should be sized accordingly as shown in Cable Conductor MAX mm² Code table page 2

| 1 Phase kit | | |
|--------------------|------------------------------|---------------|
| Quantity | Description | Part # |
| 1 | 250A Insulated elbow | ESE2-MIB1 |
| 1 | VD Cap | ESX1-MTC1 |
| 1 | Cleaning Cloth | ECX1-CCL1 |
| 1 | Earthing Wire Assembly | ESX1-GKA1 |
| 1 | Bailing Plate Bent | ESE2-CBP1 |
| 2 | Hook Bolt M4 | ESX2-CBH1 |
| 2 | Wing Nut M4 | ESX2-CBN1 |
| 2 | Compound Lube | 82-08 |
| 1 | Shearbolt Contact 250A Elbow | ESE2-CSBA** |
| 1 | Cable Adapter 250A Size | ESX2-MAAF* |
| 2 | Gloves | ECX1-GLO1 |
| 1 | PVC Tape | ECX1-PTA1 |
| 1 | Abrasive Paper | ECX1-APA1 |
| 1 | Instruction Sheet 250A | ESX2-CUM1 |
| 1 | Mastic Tape | ECX1-MTA1/2 |
| 1 | Bleeder Line | ECX1-BLN1 |
| 1 | Cold Shrink Tube 1/2 | ECX1-CST1/2 |
| 1 | Screen Wire Lug 13mm Hole | ECX1-GWL1 |
| 1 | Male Contact Pin 250A Elbow | ESE2-CCP1 |
| 2 | Washer M4 DIN125A A2 | ESX1-CWA1 |