

# Elastimold underground cable accessories

## Overview

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 V

### Cable joints and terminations ratings

Refer to the pages listed below for rating information:

- PCJ™ cable joints, page A38
- SFJ Shrink Fit cable joints, page A31
- Cable terminations, page A41

### Separable connector ratings

The following chart shows voltage and current ratings that apply to all separable connectors, including 200 A loadbreak, 200 A deadbreak and 600/900 A series deadbreak products. The next chart shows switching and fault close ratings, which only apply to 200 A loadbreak connectors.

#### Voltage and current ratings

	15 kV class ratings	25 kV class ratings	35 kV class ratings
Operating voltage maximum line-to-ground (kV) (see application info note 1)	8.3	15.2	21.1
BIL impulse withstand 1.2 x 50 microsecond wave (kV)	95	125	150
Withstand voltage AC one minute DC 15 minute (kV)	34 53	40 78	50 103
Corona extinction level @ 3pc sensitivity (kV)	11	19	26
200 A products Continuous current: Symmetrical momentary current:	–	–	200 A 10 kA sym, 10 cycle duration*
600 Series products Continuous current: Symmetrical momentary current:	–	–	600 and 900 A 25 kA sym, 10 cycle duration*

\* Designed for 90 °C maximum continuous operating temperature.

**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:**

- 5 kV ungrounded: use 15 kV class products;
- 15 kV ungrounded: use 25 kV class products;
- 25 kV ungrounded: use 35 kV 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.

**Switching and fault close ratings**

	<b>Loadmake/loadbreak switching</b>	<b>Fault close</b>
15 kV class ratings	1 $\emptyset$ and 3 $\emptyset$ circuits 8.3 kV line to ground, 14.4 kV max. across open contacts 10 loadmake/break operations at 200 A max. with 70 to 80% lagging power factor	1 fault close operation at 8.3 kV or 14.4 kV; 10,000 A 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)
25 kV class ratings	1 $\emptyset$ and 3 $\emptyset$ circuits 15.2 kV line to ground, 26.3 kV max. across open contacts 10 loadmake/break operations at 200 A max. with 70 to 80% lagging power factor	1 fault close operation at 15.2 kV or 26.3 kV; 10,000 A 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.)
35 kV class ratings	1 $\emptyset$ and 3 $\emptyset$ circuits 21.1 kV line to ground, 36.6 kV max. across open contacts. 10 loadmake/break operations at 200 A max. with 70 to 80% lagging power factor.	1 fault close operation at 21.1 kV or 36.6 kV; 10,000 A 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)

\* Designed for 90 °C maximum continuous operating temperature.