

**MATERIAL STANDARD****ACCESSORIES, SEPARABLE CONNECTOR,  
900 A, 125 kV BIL, DEADBREAK****1. Scope**

This material standard covers the requirements for 900 A, 125 kV BIL, deadbreak, separable connector accessories, such as apparatus bushings, plugs, caps, wells, and threaded studs.

The requirements for 125 kV BIL, deadbreak, separable connector dielectric components are specified in Material Standard 6863.15.

This material standard applies to the following Seattle City Light Stock Numbers:

Stock Number	Description	Page
686925	Threaded stud	2
686905	Connecting plug with one loose stud	2
686910	Insulated plug with test point cap	3
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686900	Integral bushing	3

**2. Application**

The cable accessories specified in this standard are intended to be used in conjunction with 125 kV BIL, deadbreak separable connector dielectric components (T-bodies and cable adapters), Material Standard 6863.15, to construct complete connector systems.

**Important Note:** Some accessories are provided with a stud. If an accessory is provided with the stud factory-installed, it should be considered permanent and not removable.

**3. Industry Standards**

Separable connectors (elbows) shall meet the applicable requirements of the following industry standard:

**IEEE 386-2006** – Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600 V

**4. General Requirements**

**900 A interfaces** shall have the following electrical ratings and attributes:

voltage class	25 kV
maximum voltage rating (ph-g)	15.2 kV RMS
BIL	125 kV crest
continuous current rating	900 A RMS
short-time current rating	25 kA RMS, symmetrical
IEEE 386 interface	Figure 11

**200 A bushing well interfaces** shall have the following electrical ratings and attributes:

voltage class	15, 25, and 35 kV
maximum voltage rating (ph-g)	21.1 kV RMS
BIL	150 kV crest
continuous current rating	200 A RMS
short-time current rating	10 kA RMS, symmetrical
IEEE 386 interface	Figure 3

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**4. General Requirements, continued**

Any accessory that requires permanent grounding shall be equipped with a connector for attaching a #2 AWG, bare, stranded copper grounding conductor.

Insulated caps shall be provided with grounding tab for the purpose of attaching a drain wire lead.

**5. Testing**

Separable connector (elbow) accessories shall be tested according to the requirements of IEEE 386, Section 7.

Test results shall be provided upon request.

**6. Design Changes**

Manufacturer shall inform Seattle City Light in writing of all design changes that could affect the product's understood or published capabilities.

**7. Marking**

Separable connector (elbow) accessories shall be marked according to the requirements of IEEE 386, Section 6.1.

**8. Packaging**

Separable connector (elbow) accessories shall be individually packaged in heavy duty, clear plastic bags or cardboard boxes, as appropriate for their size and weight, to prevent damage and/or contamination during shipping, handling, and storage.

Each individual package shall be marked with the following information:

- Manufacturer's identification
- Product description

Each shipping container shall be legibly marked with the following information:

- Manufacturer's identification
- Product description
- Quantity contained
- Seattle City Light's Purchase Order Number
- Seattle City Light's Stock Number

**9. Issuance**

EA

**10. Approved Manufacturers**

<b>Stock Number:</b>	<b>686925</b>
<b>Description:</b>	<b>Threaded stud, 5/8-inch, copper</b>
<b>Application:</b>	For replacement purposes if original threaded stud is lost or damaged. This part may be used for 600 or 900 A rated connector systems.
Cooper Power Systems	STUD-C
Richards Manufacturing Co.	P925HIP-STUD
Thomas & Betts (Elastimold)	675SA



<b>Stock Number:</b>	<b>686905</b>
<b>Description:</b>	<b>Connecting plug with one loose copper stud</b>
<b>Application:</b>	A connector that provides two in-line bushing interfaces.
Cooper Power Systems	DCP625CS
Richards Manufacturing Co.	P925CP-LS
Thomas & Betts (Elastimold)	K675CPS



**MATERIAL STANDARD**Accessories, Separable Connector, 900 A, 125 kV BIL,  
Deadbreak**10. Approved Manufacturers, continued**

<b>Stock Number:</b>	<b>686910</b>
<b>Description:</b>	<b>Insulated plug</b> with test point cap and one loose copper stud
<b>Application:</b>	An accessory device designed to electrically insulate, electrically shield, and mechanically seal an elbow interface. Test point cap is removable to allow access to capacitive test point.
Cooper Power Systems	DIP625CS
Richards Manufacturing Co.	P925HIP-LS
Thomas & Betts (Elastimold)	K675BIPS



<b>Stock Number:</b>	<b>686915</b>
<b>Description:</b>	<b>Reducing tap well</b>
<b>Application:</b>	A connector that provides a transition from a 600 A elbow to a 200 A bushing well.
Cooper Power Systems	-
Richards Manufacturing Co.	-
Thomas & Betts (Elastimold)	K675RTW



<b>Stock Number:</b>	<b>686900</b>
<b>Description:</b>	<b>Integral bushing</b> with 2-15/16 inch shank
<b>Application:</b>	An apparatus bushing designed for use with another connector component, such as an elbow. Requires copper stud. For sidewall, under oil mounting.
Cooper Power Systems	-
Richards Manufacturing Co.	-
Thomas & Betts (Elastimold)	K675S1

**11. References**

**6863.15**; "Separable Connector, Deadbreak, Dielectric Components, 125 kV BIL"; *SCL Material Standard*

**B100-02024**; *Cooper Power Systems Components Master Catalog, 5 kV-35 kV Electrical Distribution Systems, Specifiers Guide*; Cooper Power Systems

**PG-CA-0506**; *Elastimold Cable Accessories for 5 kV-35 kV Distribution Systems, Product Selection Guide*; Thomas & Betts (Elastimold)

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