



# Specifiers Guide

Line Installation and Protective Equipment Master Catalog  
5 kV - 35 kV Electrical Distribution Systems

 **COOPER** Power Systems



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## Smart Solutions that Deliver Reliable Power Everyday --- Everywhere

Through our commitment to research and development, we continue to develop smart solutions for safe, reliable, environmentally friendly electrical power delivery. This Specifier's Guide contains all the information necessary to order what you need to complete your projects for 5 kV – 35 kV electrical distribution systems.

### Let our Legacy Speak For Itself

#### From the Electric Century to the Information Age

Even a visionary like Thomas A. Edison could not have imagined the sophistication required of electrical transmission and distribution equipment a little more than a century after the invention of the incandescent electric light bulb and the beginning of the "Electric Century." Nor could he have anticipated all of the complex issues facing the electrical industry today.

Since its beginning, Cooper Power Systems has continued the commitment of its forebears to innovation. Our research and development lab, the Thomas A. Edison Technical Center, embodies Edison's philosophy of "finding a better way" – with innovative products that promote better power quality, reliability, safety, performance, and environmental stewardship. We're proud to trace our heritage back to the industry's pioneer.

Thomas A. Edison, Incorporated, one of Thomas Edison's original companies founded in 1910 and with corporate roots that go back to 1889, combined with McGraw Electric Company in 1957 to form McGraw-Edison. In 1985, McGraw-Edison™ became part of Cooper Power Systems. When RTE was acquired by Cooper Industries in 1988 and merged with McGraw-Edison Power Systems, Cooper Power Systems was formed. Cooper's product offerings expanded again through the acquisition of Kearney in 1997. When RTE received a patent on the 15 kV loadbreak elbow design in 1966, its potential growth was probably unrealized at the time. It is estimated that there are well over 10,000,000 such elbows in service today. As a leading innovator in the industry, Cooper Power Systems continues to introduce new products for underground distribution systems. Other innovative companies have played key roles in the development of modern distribution systems, and they have helped Cooper Power Systems become a leading manufacturer of electrical distribution equipment.



"There's a way to do it better – find it."  
— Thomas A Edison

## But Wait, There's More

In addition to rubber goods, we also supply surge arresters, tools, hotsticks, connectors, bushings, fusing, faulted circuit indicators, sectionalizing equipment and more. Now, you can get all of your products in one place – from one manufacturer – Cooper Power Systems! If you need more detail than what is contained in this easy to use Specifier's Guide, we have additional information available on the internet at [www.cooperpower.com](http://www.cooperpower.com). You can also register to have access to Cooper Power Systems complete online catalog, product and service literature that is updated daily! You can view documents in real time as they are updated. To register, go to [www.cooperpowercentral.com](http://www.cooperpowercentral.com).

## Technical Support When You Need It

If you cannot find what you're looking for, or need more detailed information, please contact technical support voicemail at 800-847-4584 (within domestic USA), or email your questions to [info@cooperpowercentral.com](mailto:info@cooperpowercentral.com). Technical support and application information are readily available. Cooper Power Systems can also provide practical, hands-on training using actual products so you can learn the easiest way to fit our products into your application.

## Quality Policy

Employees of Cooper Industries are committed and empowered to provide products and services that exceed our internal and external customers' expectations. We work together to achieve world-class quality with relentless drive for continuous improvement. ISO 9001 supports our ongoing commitment to quality by strengthening internal processes and procedures. Commitment to quality assists us in ensuring that our customers are delighted.



Following is additional information available to you from a variety of resources.

## Cooper Power Systems Website

One Cooper | [www.cooperpower.com](http://www.cooperpower.com) | Online

## Additional Industry Websites

IEEE® industry standards

<http://www.ieee.org/web/standards/home/index.html>

IEEE®

<http://www.ieee.org>

Specific energy statistics from the U.S. government

<http://www.eia.doe.gov/>

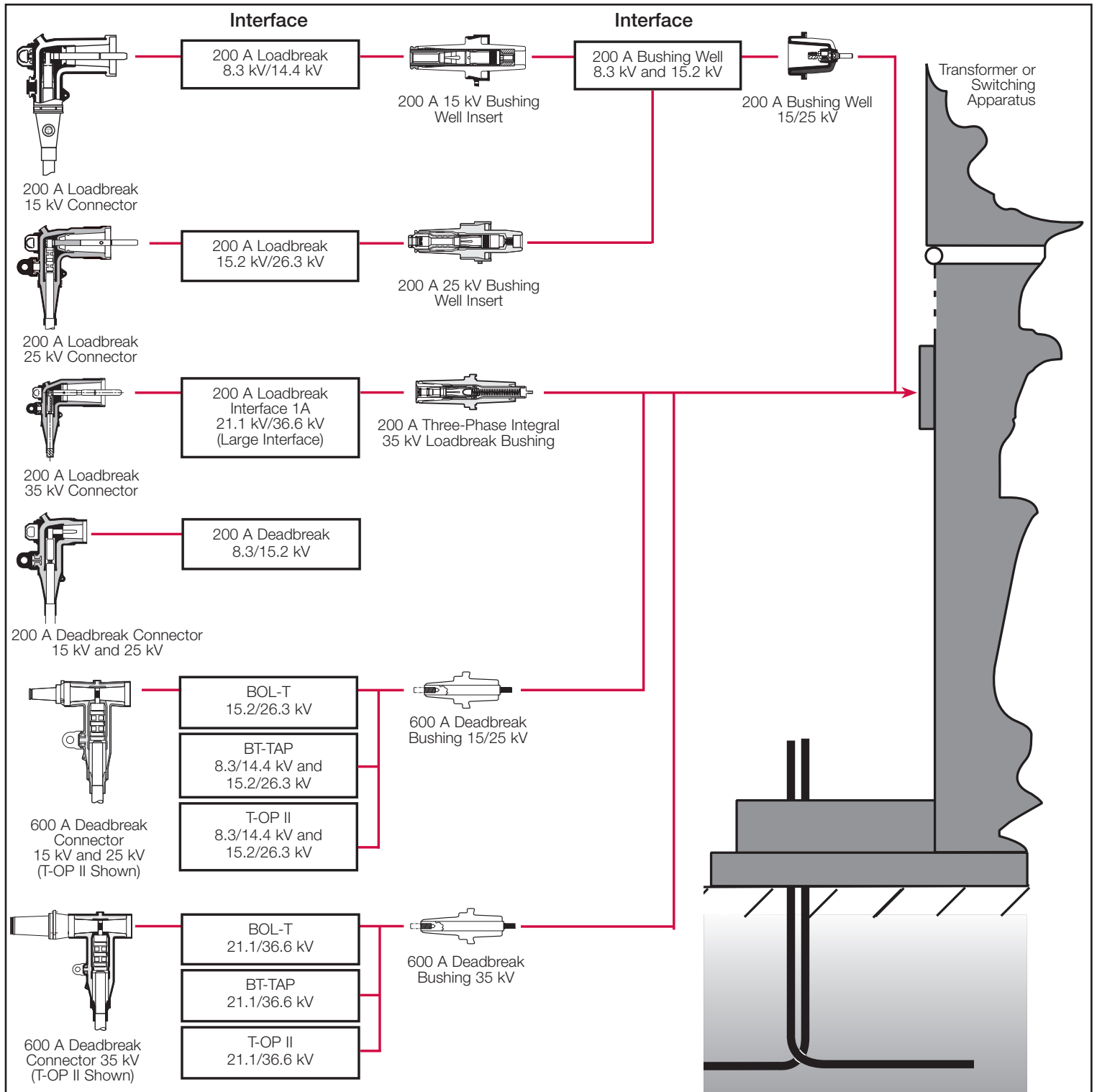
U.S. Department of Energy

<http://www.energy.gov/>

# Standard Interfaces for Separable Connectors and Components

The following diagram specifies the IEEE Std 386™ standard interfaces supplied by Cooper Power Systems for various applications to ensure interchangeability of any mating components.

## Interface Description Per IEEE Std 386™ – 2006 standard



# Certified Tests and Performance

Cooper Power Systems Connectors, Splices, Underground Surge Arresters, Tools, Bushings, Fusing, Faulted Circuit Indicators and Sectionalizing Equipment have been designed and tested per applicable portions of Institute of Electrical and Electronics Engineers, Inc. (IEEE®), American National Standards Institute (ANSI®), National Electrical Manufacturers Association (NEMA) and other industry standards including:

- IEEE Std 386™ standard for Separable Connectors
- IEEE Std 404™ standard for Cable Joints and Splices
- IEEE Std C62.11™ standard for Metal Oxide Surge Arresters
- IEEE Std C37.41™ standard for Current-Limiting Fuses
- IEEE Std 592™ standard for Exposed Semi-conducting Shields
- **ANSI C119.4 Standard** for Copper and Aluminum Conductor Connectors
- **AEIC CS5, CS6 and CS8 Standards** for XLP and EPR Insulated Cables
- **ICEA S-94-649 Standard** for XLP and EPR Insulated Cables

Cooper Power Systems Separable Connectors are rated for 15 kV, 25 kV and 35 kV systems in accordance with the following ratings.

### Splice Voltage Ratings in Accordance with IEEE Std 404™ standard

Voltage Ratings and Characteristics			
Description	Voltage		
Standard Voltage Class (kV)	15	25	35
Maximum Rating Phase-to-Ground (kV rms)	8.7	14.4	20.2
AC 60 Hz 1 Minute Withstand (kV rms)	35	52	69
DC 15 Minute Withstand (kV)	70	100	125
BIL and Full Wave Crest (kV peak)	110	150	200
Minimum Corona Voltage Level (kV)	13	22	31

### Splice Current Ratings in Accordance with IEEE Std 404™ standard

Current Ratings and Characteristics	
Description	Amperes
Continuous	Equal to the current rating of the cable per IEEE Std 404™ standard
Short Time	Equal to the current rating of the cable per IEEE Std 404™ standard

### 200 A Loadbreak Connector Ratings in Accordance with IEEE Std 386™ standard

Voltage Ratings	15 kV	25 kV	35 kV
Standard Voltage Class	15	25	35
Maximum Rating Phase-to-Phase	14.4	26.3	36.6
Maximum Rating Phase-to-Ground	8.3	15.2	21.1
AC 60 Hz 1 Minute Withstand	34	40	50
DC 15 Minute Withstand	53	78	103
BIL and Full Wave Crest	95	125	150
Minimum Corona Voltage Level	11	19	26
Current Ratings	15 kV	25 kV	35 kV
Continuous	200 A rms	200 A rms	200 A rms
Switching	10 make/break operations at 200 A rms at 14.4 kV	10 make/break operations at 200 A rms at 26.3 kV	10 make/break operations at 200 A rms at 36.6 kV
Fault Closure	10,000 A rms sym. at 14.4 kV for 0.17s after 10 switching operations	10,000 A rms sym. at 26.3 kV for 0.17s after 10 switching operations	10,000 A rms sym. at 36.6 kV for 0.17s after 10 switching operations
Short Time	10,000 A rms sym. for 0.17s 3,500 A rms sym. for 3.0s	10,000 A rms sym. for 0.17s 3,500 A rms sym. for 3.0s	10,000 A rms sym. for 0.17s 3,500 A rms sym. for 3.0s

### 600 A Deadbreak Connector Ratings in Accordance with IEEE Std. 386™ standard

Voltage Ratings	15 kV	25 kV	35 kV
Standard Voltage Class	25	25	35
Maximum Rating Phase-to-Ground	15.2	15.2	21.1
AC 60 Hz 1 Minute Withstand	40	40	50
DC 15 Minute Withstand	78	78	103
BIL and Full Wave Crest	125	125	150
Minimum Corona Voltage Level	19	19	26
Current Ratings	15 kV	25 kV	35 kV
600 A Interface**			
Continuous	600 A rms	600 A rms	600 A rms
24 Hour Overload	1,000 A rms	1,000 A rms	1,000 A rms
Short Time	25,000 A rms sym. for 0.17 s 10,000 A rms sym. for 3.0 s	25,000 A rms sym. for 0.17 s 10,000 A rms sym. for 3.0 s	25,000 A rms sym. for 0.17 s 10,000 A rms sym. for 3.0 s
200 A Interface On Loadbreak Reducing Tap Plug (L RTP)*			
Continuous	200 A rms	200 A rms	200 A rms
Switching	10 make/break operations at 200 A rms at 14.4 kV	10 make/break operations at 200 A rms at 26.3 kV	10 make/break operations at 200 A rms at 36.6 kV
Fault Closure	10,000 A rms sym. at 14.4 kV for 0.17s after 10 switching operations	10,000 A rms sym. at 26.3 kV for 0.17s after 10 switching operations	10,000 A rms sym. at 36.6 kV for 0.17s after 10 switching operations
Short Time	10,000 A rms sym. for 0.17 s 3,500 A rms sym. for 3.0s	10,000 A rms sym. for 0.17 s 3,500 A rms sym. for 3.0s	10,000 A rms sym. for 0.17 s 3,500 A rms sym. for 3.0s

#### Notes:

\* System design and protection must recognize the ratings of 200 A interface.

\*\* Optional 900 A rating is available. Refer to 600/900 A Deadbreak Connector section for more detail.

## Part Number Selection Process for Cable Sensitive Products

The Cooper Power Systems 200 A and 600 A connector products are designed for applications on XLPE, EPR or other solid dielectric insulated underground electrical cables. In order to maintain a reliable termination, the cable accessories must be sized correctly with the cable conductor size and cable insulation diameter.

The cable conductor size is used to determine the compression connector used. Proper sizing is important to ensure reliable current transfer from the underground cable conductor to the elbow connector. Conductor diameters are dependent on the conductor size in AWG or kcmil, and conductor type (stranded, compressed, compact or solid).

The cable insulation diameter (the diameter over the insulation) is critical because it is important to maintain a tightly sealed fit between the cable insulation and the elbow housing at the cable entrance. As the insulation thickness changes, so must the range of the cable accessory. Cable insulation diameter can be determined from the cable manufacturer's specification, or by referring to pages 8 (for cable made to the AEIC Standard including the  $\pm 0.030$  inch tolerance) or 9 (for cable made to the ICEA Standard) for minimum and maximum diameters.

## EXAMPLE: PROPER ELBOW PART NUMBER SELECTION

Select a Cooper Power Systems 15 kV 200 A Loadbreak Elbow with optional integral jacket seal and test point for an AEIC standard tape-shielded 15 kV cable with 133% insulation and 1/0 compact stranded conductor with an outer jacket diameter of 1.07".

### Step 1 – Base Part Number Selection

Select base part number of **LEJ215** from page 11 for 15 kV voltage class. Note that on page 11 reference is also made to tables CR1 and CC1.

### Step 2 – Determine Insulation Outside Diameter Range

Since cable is made to AEIC Standards, refer to page 8. 133% 15 kV cable corresponds to 220 mil insulation wall thickness. The AEIC table gives a range of 0.805" to 0.865" for 1/0 compact 220 mil cable.

### Step 3 – Elbow Cable Range Selection

Refer to CR1 Table on page 13 and select a cable range code of "**AB**" with a range of 0.610" to 0.970" to cover 0.805" to 0.865".

LEJ215

CABLE RANGE  
CODE (CR1)

### Step 4 – Elbow Connector Selection

Refer to CC1 Table on page 13 and select a conductor code of "**05**" which applies to the specified 1/0 compact conductor.

LEJ215

AB

CONDUCTOR  
CODE (CC1)

### Step 5 – Optional Test Point Selection

In accordance with Note 1 on page 11, for an elbow with test point, add a "**T**" after the cable range and conductor code.

LEJ215

AB

05

T

### Step 6 – Optional Ground Strap

Tape-shielded cable requires a ground strap and bleeder wire to terminate. Add "GS" after test point option.

LEJ215

AB

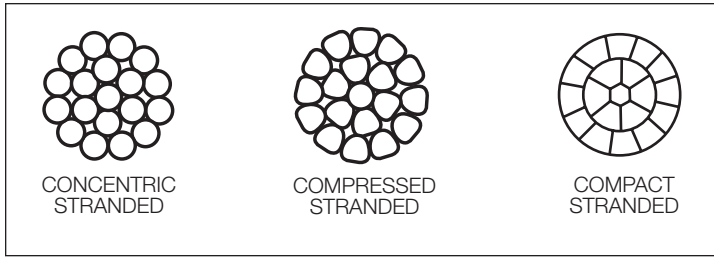
05

TGS

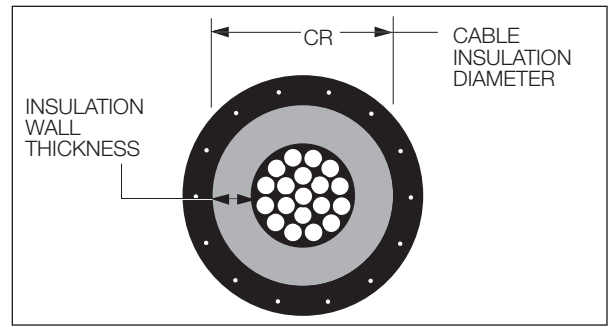
### Step 7 – Ordering

Therefore, order Cooper Power Systems part number

**LEJ215AB05TGS**



Types of Stranded Conductor



Cable insulation

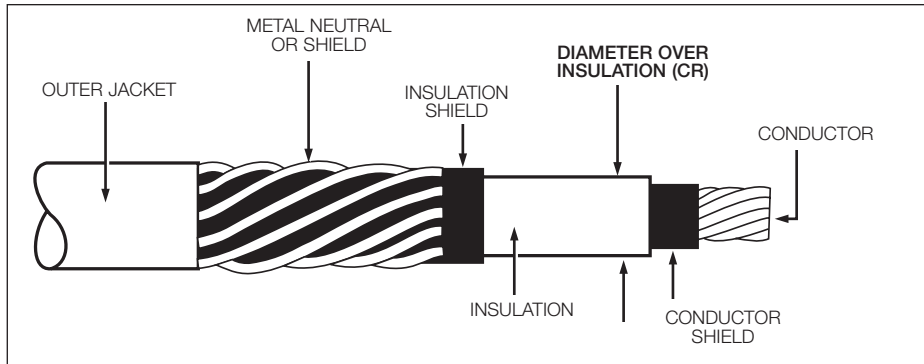


Illustration showing typical construction of medium voltage underground cable.

### Cable Conductor Reference

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 <sup>2</sup> Conversion				
14	7 x 0.0242	0.0032	2.08	0.073	-	-	0.064
12	7 x 0.0305	0.0051	3.31	0.092	-	-	0.081
10	7 x 0.0385	0.0082	5.26	0.116	-	-	0.102
8	7 x 0.0486	0.0130	8.37	0.146	-	-	0.129
6	7 x 0.0612	0.0206	13.30	0.184	-	-	0.162
4	7 x 0.0772	0.0328	21.15	0.232	-	-	0.204
2	7 x 0.0974	0.0521	33.62	0.292	0.283	0.268	0.258
1	19 x 0.0664	0.0657	42.41	0.332	0.322	0.299	0.289
1/0	19 x 0.0745	0.0829	53.49	0.373	0.362	0.336	0.325
2/0	19 x 0.0837	0.1045	67.43	0.418	0.405	0.376	-
3/0	19 x 0.0940	0.1318	85.01	0.470	0.456	0.423	-
4/0	19 x 0.1055	0.1662	107.2	0.528	0.512	0.475	-
250	37 x 0.0822	0.1964	127	0.575	0.558	0.520	-
350	37 x 0.0973	0.2749	177	0.681	0.661	0.616	-
500	37 x 0.1162	0.3927	253	0.813	0.789	0.736	-
600	61 x 0.0992	0.4712	304	0.893	0.866	0.813	-
700	61 x 0.1071	0.5498	355	0.964	0.935	0.877	-
750	61 x 0.1109	0.5891	380	0.998	0.968	0.908	-
800	61 x 0.1145	0.6283	405	1.031	1.000	0.938	-
900	61 x 0.1215	0.7069	456	1.094	1.061	0.999	-
1000	61 x 0.1280	0.7854	507	1.152	1.117	1.060	-

# AEIC Insulation Diameter Chart

Cable Insulation Diameters for Standard AEIC Cables with 175, 220, 260, and 345 mil Insulation Wall Thickness

Insulation AWG or kcmil	Wall Thickness* (Inches)	Voltage Class kV	Concentric Stranded		Compressed Stranded		Compact Stranded		Solid	
			Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)
#2	.175	15	0.670	0.730	0.665	0.725	0.650	0.710	0.640	0.700
	.220	15	0.760	0.820	0.775	0.815	0.740	0.800	0.730	0.790
	.260	25	—	—	—	—	—	—	—	—
	.345	35	—	—	—	—	—	—	—	—
#1	.175	15	0.710	0.770	0.700	0.760	0.680	0.740	0.670	0.730
	.220	15	0.800	0.860	0.790	0.850	0.770	0.830	0.760	0.820
	.260	25	0.880	0.940	0.870	0.930	0.850	0.910	0.840	0.900
	.345	35	—	—	—	—	—	—	—	—
1/0	.175	15	0.755	0.815	0.740	0.800	0.715	0.775	0.705	0.765
	.220	15	0.845	0.905	0.830	0.890	0.805	0.865	0.795	0.855
	.260	25	0.925	0.985	0.910	0.970	0.885	0.945	0.875	0.935
	.345	35	1.095	1.155	1.080	1.140	1.055	1.115	1.045	1.105
2/0	.175	15	0.800	0.860	0.785	0.845	0.755	0.815	0.805	0.905
	.220	15	0.890	0.950	0.875	0.935	0.845	0.905	0.835	0.895
	.260	25	0.970	1.030	0.955	1.015	0.925	0.985	0.915	0.975
	.345	35	1.140	1.200	1.125	1.185	1.095	1.155	1.085	1.145
3/0	.175	15	0.850	0.910	0.835	0.895	0.805	0.865	0.850	0.940
	.220	15	0.940	1.000	0.925	0.985	0.895	0.955	0.880	0.940
	.260	25	1.020	1.080	1.005	1.065	0.975	1.035	0.960	1.020
	.345	35	1.190	1.250	1.175	1.235	1.145	1.205	1.130	1.190
4/0	.175	15	0.910	0.970	0.890	0.950	0.855	0.915	0.900	0.990
	.220	15	1.000	1.060	0.980	1.040	0.945	1.005	0.930	0.990
	.260	25	1.080	1.140	1.060	1.120	1.025	1.085	1.010	1.070
	.345	35	1.250	1.310	1.230	1.290	1.195	1.255	1.180	1.240
250	.175	15	0.965	1.025	0.950	1.010	0.910	0.970	—	—
	.220	15	1.055	1.115	1.040	1.100	1.000	1.060	—	—
	.260	25	1.145	1.205	1.130	1.190	1.095	1.150	—	—
	.345	35	1.320	1.380	1.305	1.365	1.265	1.325	—	—
350	.175	15	1.070	1.130	1.050	1.110	1.005	1.065	—	—
	.220	15	1.160	1.220	1.140	1.200	1.095	1.155	—	—
	.260	25	1.250	1.310	1.230	1.290	1.185	1.245	—	—
	.345	35	1.425	1.485	1.405	1.465	1.360	1.420	—	—
500	.175	15	1.205	1.265	1.180	1.240	1.125	1.185	—	—
	.220	15	1.295	1.355	1.270	1.330	1.215	1.275	—	—
	.260	25	1.385	1.445	1.360	1.420	1.305	1.365	—	—
	.345	35	1.560	1.620	1.535	1.595	1.480	1.540	—	—
600	.175	15	1.295	1.355	1.265	1.325	1.215	1.275	—	—
	.220	15	1.385	1.445	1.355	1.415	1.305	1.365	—	—
	.260	25	1.475	1.535	1.445	1.505	1.395	1.455	—	—
	.345	35	1.650	1.710	1.625	1.680	1.570	1.630	—	—
700	.175	15	1.365	1.425	1.335	1.395	1.275	1.335	—	—
	.220	15	1.455	1.515	1.425	1.485	1.365	1.425	—	—
	.260	25	1.545	1.605	1.515	1.575	1.455	1.515	—	—
	.345	35	1.720	1.780	1.690	1.750	1.630	1.690	—	—
750	.175	15	1.400	1.460	1.370	1.430	1.310	1.370	—	—
	.220	15	1.490	1.550	1.460	1.520	1.400	1.460	—	—
	.260	25	1.580	1.640	1.550	1.610	1.490	1.550	—	—
	.345	35	1.755	1.815	1.725	1.785	1.665	1.725	—	—
800	.175	15	1.430	1.490	1.400	1.460	1.340	1.400	—	—
	.220	15	1.520	1.580	1.490	1.550	1.430	1.490	—	—
	.260	25	1.610	1.670	1.580	1.640	1.520	1.580	—	—
	.345	35	1.785	1.845	1.755	1.815	1.695	1.755	—	—
900	.175	15	1.495	1.555	1.460	1.520	1.400	1.460	—	—
	.220	15	1.585	1.645	1.550	1.610	1.490	1.550	—	—
	.260	25	1.675	1.735	1.640	1.700	1.580	1.640	—	—
	.345	35	1.850	1.910	1.815	1.875	1.755	1.815	—	—
1000	.175	15	1.550	1.610	1.515	1.575	1.460	1.520	—	—
	.220	15	1.640	1.700	1.605	1.665	1.550	1.610	—	—
	.260	25	1.730	1.790	1.695	1.755	1.640	1.700	—	—
	.345	35	1.850	1.955	1.815	1.920	1.760	1.865	—	—

\* See table below for standard insulation thickness.

175 mil is 100% insulated cable at 15 kV.  
 220 mil is 133% insulated cable at 15 kV.  
 260 mil is 100% insulated cable at 25 kV.  
 345 mil is 133% insulated cable at 25 kV.  
 345 mil is 100% insulated cable at 35 kV.



# ICEA Insulation Diameter Chart

Cable Insulation Diameters for Standard ICEA Cables with 175, 220, 260, and 345 mil Insulation Wall Thickness

AWG or kcmil	Insulation Wall Thickness* (Inches)	Voltage Class kV	Concentric Stranded		Compressed Stranded		Compact Stranded		Solid	
			Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)	Min. Dia. (inches)	Max. Dia. (inches)
#2	.175	15	0.645	0.730	0.635	0.720	0.620	0.705	0.610	0.695
	.220	15	0.735	0.825	0.725	0.815	0.710	0.800	0.700	0.790
	.260	25	-	-	-	-	-	-	-	-
	.345	35	-	-	-	-	-	-	-	-
#1	.175	15	0.685	0.770	0.675	0.760	0.655	0.735	0.645	0.725
	.220	15	0.775	0.865	0.765	0.855	0.745	0.830	0.735	0.820
	.260	25	0.845	0.935	0.835	0.925	0.815	0.905	0.805	0.895
	.345	35	-	-	-	-	-	-	-	-
1/0	.175	15	0.725	0.810	0.715	0.800	0.690	0.775	0.680	0.760
	.220	15	0.815	0.905	0.805	0.895	0.780	0.865	0.770	0.855
	.260	25	0.885	0.980	0.875	0.965	0.850	0.940	0.835	0.925
	.345	35	1.055	1.155	1.045	1.145	1.020	1.120	1.010	1.110
2/0	.175	15	0.775	0.855	0.760	0.845	0.730	0.815	0.715	0.800
	.220	15	0.865	0.950	0.850	0.935	0.820	0.905	0.805	0.895
	.260	25	0.935	1.025	0.920	1.010	0.890	0.980	0.875	0.965
	.345	35	1.105	1.200	1.090	1.190	1.060	1.160	1.045	1.145
3/0	.175	15	0.825	0.905	0.810	0.895	0.775	0.860	0.765	0.845
	.220	15	0.915	1.000	0.900	0.985	0.865	0.955	0.855	0.940
	.260	25	0.985	1.075	0.970	1.060	0.935	1.030	0.925	1.015
	.345	35	1.155	1.255	1.140	1.240	1.105	1.205	1.095	1.195
4/0	.175	15	0.880	0.965	0.865	0.950	0.830	0.910	0.815	0.895
	.220	15	0.970	1.060	0.955	1.045	0.920	1.005	0.905	0.990
	.260	25	1.040	1.135	1.025	1.115	0.990	1.080	0.975	1.065
	.345	35	1.210	1.310	1.195	1.295	1.160	1.260	1.145	1.245
250	.175	15	0.935	1.020	0.920	1.005	0.880	0.965	-	-
	.220	15	1.025	1.115	1.010	1.100	0.970	1.060	-	-
	.260	25	1.095	1.190	1.080	1.175	1.040	1.135	-	-
	.345	35	1.265	1.370	1.250	1.350	1.210	1.315	-	-
350	.175	15	1.045	1.130	1.025	1.110	0.980	1.065	-	-
	.220	15	1.135	1.220	1.115	1.200	1.070	1.155	-	-
	.260	25	1.205	1.295	1.185	1.275	1.140	1.230	-	-
	.345	35	1.375	1.475	1.355	1.455	1.310	1.410	-	-
500	.175	15	1.175	1.260	1.150	1.235	1.100	1.185	-	-
	.220	15	1.265	1.355	1.240	1.330	1.190	1.275	-	-
	.260	25	1.335	1.430	1.310	1.405	1.260	1.350	-	-
	.345	35	1.505	1.605	1.480	1.580	1.430	1.530	-	-
600	.175	15	1.265	1.350	1.235	1.325	1.185	1.270	-	-
	.220	15	1.355	1.445	1.325	1.415	1.275	1.365	-	-
	.260	25	1.425	1.520	1.395	1.490	1.345	1.440	-	-
	.345	35	1.595	1.695	1.565	1.670	1.515	1.615	-	-
700	.175	15	1.335	1.420	1.305	1.390	1.245	1.335	-	-
	.220	15	1.425	1.515	1.395	1.485	1.335	1.430	-	-
	.260	25	1.495	1.590	1.465	1.560	1.405	1.500	-	-
	.345	35	1.665	1.765	1.635	1.740	1.575	1.680	-	-
750	.175	15	1.370	1.455	1.340	1.425	1.280	1.365	-	-
	.220	15	1.460	1.550	1.430	1.520	1.370	1.460	-	-
	.260	25	1.530	1.625	1.500	1.595	1.440	1.535	-	-
	.345	35	1.700	1.800	1.670	1.770	1.610	1.710	-	-
800	.175	15	1.400	1.490	1.370	1.455	1.310	1.395	-	-
	.220	15	1.490	1.580	1.460	1.550	1.400	1.490	-	-
	.260	25	1.560	1.655	1.530	1.625	1.470	1.565	-	-
	.345	35	1.730	1.835	1.700	1.805	1.640	1.740	-	-
900	.175	15	1.465	1.550	1.430	1.520	1.370	1.455	-	-
	.220	15	1.555	1.645	1.520	1.610	1.460	1.550	-	-
	.260	25	1.625	1.720	1.590	1.685	1.530	1.625	-	-
	.345	35	1.795	1.895	1.760	1.865	1.700	1.800	-	-
1000	.175	15	1.520	1.610	1.485	1.575	1.430	1.515	-	-
	.220	15	1.610	1.705	1.575	1.670	1.520	1.610	-	-
	.260	25	1.680	1.775	1.645	1.740	1.590	1.685	-	-
	.345	35	1.850	1.955	1.815	1.920	1.760	1.865	-	-

\* See table below for standard insulation thickness.

175 mil is 100% insulated cable at 15 kV.  
 220 mil is 133% insulated cable at 15 kV.  
 260 mil is 100% insulated cable at 25 kV.  
 345 mil is 133% insulated cable at 25 kV.  
 345 mil is 100% insulated cable at 35 kV.

# 200 A Loadbreak Connectors

Our 200 A 15, 25, and 35 kV Loadbreak Elbow Connectors and Accessories are submersible, fully-shielded and insulated plug-in terminations, ideal for connecting underground cable to transformers, switchgear, sectionalizing cabinets and junctions. These connectors are molded using high-quality, peroxide-cured EPDM insulation for reliable field performance.

15 kV and 25 kV loadbreak elbows are available with an integral jacket seal for use with concentric neutral and other types of shielded cables.

All 200 A loadbreak connectors meet the electrical, mechanical, and dimensional requirements of IEEE Std 386™ standard and are designed to be fully interchangeable with other major manufacturers currently complying with IEEE Std 386™ standard.

## 25 kV POSI-BREAK Elbow and Cap

Our POSI-BREAK™ Elbow and Cap is an engineered solution that increases strike distance and improves reliability. The added features solve problems, such as:

- **Partial Vacuum Flashovers** – Under certain conditions during 25 kV switching, a partial vacuum can decrease the dielectric strength of the air inside the elbow/bushing or cap/bushing. This increases the possibility of a flashover from the elbow or cap's probe along the bushing interface to the grounded collar on the mating bushing product. The POSI-BREAK design eliminates the possibility of partial vacuum flashovers during switching because of the increased strike distance.
- **Contamination** – The field-proven interface seal prevents the ingress of moisture or contaminants. However, contamination introduced during installation or switching operations can reduce the strike distance along the interface. The increased insulation of the POSI-BREAK design counteracts the effect of contamination, increasing system reliability.

### 25 kV POSI-BREAK Elbow and Cap Specification Information

To capitalize on the benefits of the POSI-BREAK Elbow and Cap, include the following information for both the 25 kV 200 A Loadbreak Elbow and Insulated Protective Cap in your specification:

- Both elbow and cap must fully comply with IEEE Std 386™ standard.
- Strike distance from energized component to ground shall be at least 5.6" at 1/2" interface separation.
- Both elbow and cap shall have an insulated probe and conductive Faraday Cage for relief of electrical stress and prevention of partial discharge.
- Semi-conductive insert shall be completely surrounded with EPDM insulating rubber.



## 35 kV Large Interface Elbow Bushing System\*

Our 35 kV 200 A Large Interface Elbow Bushing System is a reliable, field proven design. This system has over 25 years of field experience while being used on large 35 kV distribution systems. Features of the Large Interface System include:

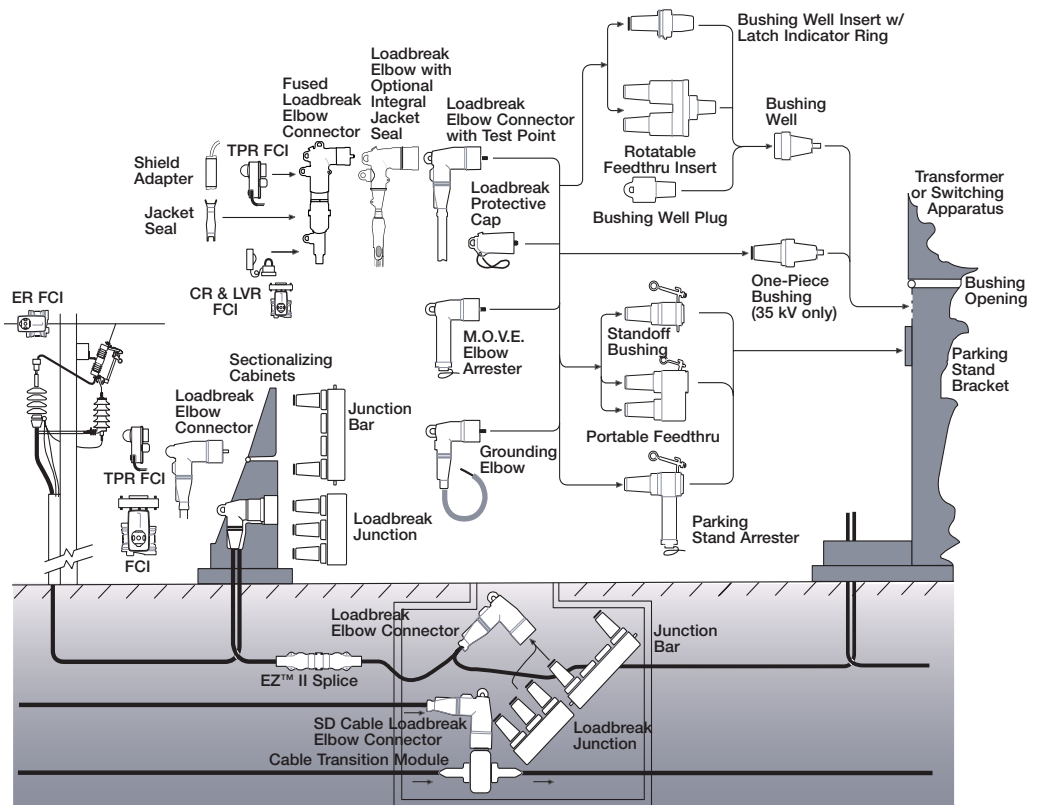
- Increased strike distance to provide greater reliability and overall performance.
- Reliable loadbreak switching and fault closure capability.
- Full line of large interface accessory products.







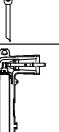











\* Refer to bushing section on page 40 for more information on the bushing.

### 35 kV Elbow and Accessories Specification Information

To capitalize on the benefits of our 35 kV Large Interface Elbow include the following information in your specification:

- The 200 A Elbows and Accessories shall be 21.1 kV/36.6 kV three-phase rated, meeting the requirements of IEEE Std 386™ standard interface No. 1A (large 35 kV class interface).



Catalog Section	Description	kV Class	Base Part Number	Notes
 500-10-7	Loadbreak Elbow	15 kV	<b>LE215 CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 2, 4, 5
 500-10-7	Loadbreak Elbow with Integral Jacket Seal	15 kV	<b>LEJ215CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 2, 3, 5
 500-28-7	Loadbreak Elbow	25 kV	<b>LE225 CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 4, 5
 500-28-7	Loadbreak Elbow with Integral Jacket Seal	25 kV	<b>LEJ225CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 3, 5
 500-29-7	POSI-BREAK Loadbreak Elbow	25 kV	<b>PLE225 CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 4, 5
 500-29-7	POSI-BREAK Loadbreak Elbow with Integral Jacket Seal	25 kV	<b>PLEJ225CR1 CC1</b> (see CR1 & CC1 Tables Pg. 13)	1, 3, 5
 500-110	Fused Loadbreak Elbow Connector	15 kV	<b>LFEP215TFEC CR3 CC2 AT</b> (see CR3 and CC2 Tables on page 13 (see Table 500-110 on page 13 for Fuse Ratings and Catalog Numbers)	16
 500-111	Fused Loadbreak Elbow Connector	25 kV	<b>LFEP225TFEC CR3 CC2 AT</b> (see CR3 and CC2 Tables on page 13 (see Table 500-110 on page 13 for Fuse Ratings and Catalog Numbers)	16
 500-41	Loadbreak Elbow	35 kV	<b>LE235 CR2 CC1</b> (see CR2 & CC1 Tables Pg. 13)	1, 4, 5
 500-12	Loadbreak Bushing Insert	15 kV	<b>LBI215</b>	5
 500-26	Loadbreak Bushing Insert	25 kV	<b>LBI225</b>	5, 6
 500-13 500-30	Loadbreak Feedthru Insert	15 kV 25 kV	<b>LFI215</b> <b>LFI225</b>	
 500-14	Loadbreak Portable Feedthru	15 kV		
		horizontal	<b>LPF215H</b>	
		vertical	<b>LPF215V</b>	
		universal	<b>LPF215U</b>	
 500-31	Loadbreak Portable Feedthru	25 kV		
		horizontal	<b>LPF225H</b>	
		vertical	<b>LPF225V</b>	
		universal	<b>LPF225U</b>	
 500-49	Loadbreak Portable Feedthru	35 kV		
		horizontal	<b>LPF235H</b>	
		vertical	<b>LPF235V</b>	
 500-15 500-32 500-51	Loadbreak Junction	15 kV 25 kV 35 kV	<b>LJ215C _</b> <b>LJ225C _</b> <b>LJ235C _</b>	7, 8 7, 8 7, 8
 500-20 500-38	Insulated Bushing Well Plug	15/25 kV	<b>IBWP225</b>	
 500-21	Loadbreak Protective Cap	15 kV	<b>LPC215</b>	5

(continued next page)



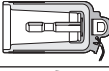





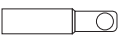


## 200 A Loadbreak & Deadbreak Connectors



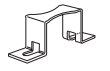
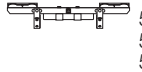
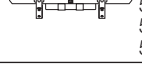
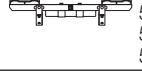
- For an elbow **with test point**, add a "T" after the conductor code (CC1).
- For an elbow kit with a **hold down bail assembly** included, insert a "B" after the test point option code. 15 kV only.
- For optional braided ground strap/bleeder wire for termination tape and wire shielded cable, insert "GS" after test point and/or bail option code.
- To include the **SA Series Cold Shrinkable Metallic Shield Adapters Kit** or **CS Series Cold Shrink Cable Sealing Kit**, add the appropriate suffix "SA1", "SA2", "SA3", "SA4" or "CS1", "CS2", or "CS3" to the end of the loadbreak elbow catalog number. Refer to Tables CJ1 and CJ2 on Page 13.
- For **individually packaged** product in a corrugated cardboard box, insert an "X" as the last character in the part number.
- To order the **long version** (extended) of the **bushing insert**, put in an "L" as the seventh character in the part number.
- Specify the number of **interfaces** by inserting a "2", "3", or "4" directly after the base part number.
- To add a **stainless steel bracket**, insert a "B" as the last character in the part number, or to add **U-straps**, insert a "U" as the last character in the part number.
- To substitute a **stainless steel bracket**, insert a "S" as the last character in the part number.
- Each **CS Series Cold Shrink Cable Sealing Kit** includes:
  - Cold Shrinkable Sleeve
  - Mastic Sealing Strips
  - Installation Instructions
 For use on Concentric Neutral Cable.
- For use with tape shield, drain wire, linear corrugated and Unishield® cable.
- Each **SA Series Kit** includes:
  - Cold Shrinkable Sleeve
  - Tinned Copper Ground Strap with attached elbow drain wire
  - Constant Force Spring
  - Semi-Conductive Tape
  - Mastic Sealing Strips
  - Installation Instructions
- Probe kit includes probe, installation tool, silicone lubricant and installation instructions.
- For 200 A loadbreak inserts only.
- 5 kV cable for luse in 15 kV and 25 kV "CC" size elbow only.
- Fuses sold separately. See Table 500-110 on page 13. Reference Cat. 240-97.

# 200 A Loadbreak & Deadbreak Connectors

## 200 A Loadbreak & Deadbreak Connectors

(continued from previous page)

Catalog Section	Description	kV Class	Base Part Number	Notes
 500-39	Loadbreak Protective Cap	25 kV	LPC225	5
 500-37	POSI-BREAK Loadbreak Protective Cap	25 kV	PLPC225	5
 500-65	Loadbreak Protective Cap	35 kV	LPC235	5
 500-22	Insulated Standoff Bushing	15 kV	ISB215	9
 500-40	Insulated Standoff Bushing	25 kV	ISB225	9
 500-66	Insulated Standoff Bushing	35 kV	ISB235	9
	SA Series Cold Shrinkable Metallic Shield Adapter Kit	15/25/35 kV	SA CJ2 (see CJ2 Table Pg. 13)	4, 11, 12
	CS Series Cold Shrink Cable Seal Kit	15/25/35 kV	CS CJ1 (see CJ1 Table Pg. 13)	4, 10
 500-10-7 500-28-7 500-29-7 500-41	Coppertop Connector 200 A, 2.88" Long Bi-Metal	15/25/35 kV	CC2C CC1 T (see CC1 Table Pg. 13)	
 500-10-7 500-28-7 500-29-7 500-41	200 A Loadbreak Probe Kit	15 kV 25 kV 35 kV	PK215 PK225 PKPB225 (POSI-BREAK) PK235	13 13 13 13
 500-10-7 500-28-7 500-29-7 500-41	Silicone Lubricant Cooper 117 (for Elbows and Splices)	15/25/35 kV	2603393A03 (0.175 oz., 5 g packet) 2605670A02M (5.25 oz., 150 g tube)	

Catalog Section	Description	kV Class	Base Part Number	Notes
 500-12	Installation and Torque Tool	15/25 kV	LBITool	14
 500-10-7	Cable Adapter, 5 kV 0.495" - 0.585" 0.575" - 0.685"	15/25 kV	CA225A CA225B	15 15
 500-15 500-32 500-51	U-Strap Kit with Hardware (1 strap) for Loadbreak Junction	15 kV 25 kV 35 kV	2625439A16B 2625439A17B 2637570A01B	
 500-15 500-32 500-51	2-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV 25 kV 35 kV	2637172B01BS 2637160B01BS 2604688B01B	
 500-15 500-32 500-51	3-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV 25 kV 35 kV	2637172B02BS 2637160B02BS 2604688B02B	
 500-15 500-32 500-51	4-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV 25 kV 35 kV	2637172B03BS 2637160B03BS 2604688B03B	

- For an elbow with test point, add a "T" after the conductor code (CC1).
- For an elbow kit with a hold down bail assembly included, insert a "B" after the test point option code. 15 kV only.
- For optional braided ground strap/bleeder wire for termination tape and wire shielded cable, insert "GS" after test point and/or bail option code.
- To include the SA Series Cold Shrinkable Metallic Shield Adapters Kit or CS Series Cold Shrink Cable Sealing Kit, add the appropriate suffix "SA1", "SA2", "SA3", "SA4" or "CS1", "CS2", or "CS3" to the end of the loadbreak elbow catalog number. Refer to Tables CJ1 and CJ2 on Page 13.
- For individually packaged product in a corrugated cardboard box, insert an "X" as the last character in the part number.
- To order the long version (extended) of the bushing insert, put in an "L" as the seventh character in the part number.
- Specify the number of interfaces by inserting a "2", "3", or "4" directly after the base part number.
- To add a stainless steel bracket, insert a "B" as the last character in the part number, or to add U-straps, insert a "U" as the last character in the part number.
- To substitute a stainless steel bracket, insert a "S" as the last character in the part number.
- Each CS Series Cold Shrink Cable Sealing Kit includes:
  - Cold Shrinkable Sleeve
  - Mastic Sealing Strips
  - Installation Instructions
 For use on Concentric Neutral Cable.
- For use with tape shield, drain wire, linear corrugated and Unishield® cable.
- Each SA Series Kit includes:
  - Cold Shrinkable Sleeve
  - Tinned Copper Ground Strap with attached elbow drain wire
  - Constant Force Spring
  - Semi-Conductive Tape
  - Mastic Sealing Strips
  - Installation Instructions
- Probe kit includes probe, installation tool, silicone lubricant and installation instructions.
- For 200 A loadbreak inserts only.
- 5 kV cable for use in 15 kV and 25 kV "CC" size elbow only.

**Use for  
Base Number**

LE215  
LEJ215  
LE225  
LEJ225  
PLE225  
PLEJ225

**TABLE CR1  
Cable Diameter (Insulation) Range**

Cable Diameter Range		CABLE RANGE CODE
Inches	Millimeters	
0.495-0.585	12.6-14.9	CCA*
0.575-0.685	14.6-17.4	CCB*
0.610-0.970	15.5-24.6	AB
0.750-1.080	19.1-27.4	CC
0.890-1.220	22.6-30.0	DD

\* Uses 5 kV cable adapter. (For use with "CC" range elbow only.)

**Use for  
Base Number**

LE235

**TABLE CR2  
Cable Diameter (Insulation) Range**

Cable Diameter Range		CABLE RANGE CODE
Inches	Millimeters	
0.825-1.000	21.00-25.40	B
0.995-1.180	25.20-30.00	D
1.180-1.340	30.00-34.00	F

**Use for  
Base Number**

LFEP215  
LFEP225

**TABLE CR3  
Cable Diameter (Insulation) Range for Fused Loadbreak Elbow**

Cable Diameter Range		CABLE RANGE CODE
Inches	Millimeters	
0.740-0.980	18.8-24.9	B
0.910-1.180	23.10-29.9	C

**Use for  
Base Number**

LE215  
LEJ215  
LE225  
LEJ225  
PLE225  
PLEJ225  
LE235  
CC2C

**TABLE CC1  
Conductor Size and Type**

Concentric or Compressed		Compact or Solid		CONDUCTOR CODE
AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	
No Connector				00
#6	16	#4	-	01
#4	-	#3	25	02
#3	25	#2	35	03
#2	35	#1	-	04
#1	-	1/0	50	05
1/0	50	2/0	70	06
2/0	50	3/0	-	07
3/0	-	4/0	95	08
4/0	95	250	20	09
250*	120	300	-	10

\* Compressed stranding only.

**Use for  
Base Number**

CS

**TABLE CJ1  
Jacketed Concentric Neutral Cable**

Minimum Seal Diameter Inches	Maximum Installed Diameter (Inches)	CODE
0.950	1.94	1
1.28	2.67	2
1.60	3.50	3

**Use for  
Base Number**

SA

**TABLE CJ2  
Cable Jacket (Outside Diameter) Range**

Cable Jacket OD (Inches)	JACKET CODE
0.590-1.050	1
0.830-1.640	2
1.270-2.170	3
1.600-2.600	4

**Use for  
Base Number**

LFEP215  
LFEP225  
FECC

**TABLE CC2  
Conductor Size and Type for Fused Loadbreak Elbow**

Class B Stranded or Compressed		Compact or Solid		CONDUCTOR CODE
AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	
No Connector				00
		#2*	35	03
#2	35	#1	-	04
#1	-	1/0	50	05
1/0	50	2/0	70	06
2/0	70	3/0	-	07
3/0	-	4/0	95	08
4/0	95	-	-	09
250**	120	-	-	10

\* Compact stranded only.

\*\* Compressed stranded only.

**Note:** Coppertop compression connector may be used on both aluminum and copper cable conductors.

**Table 500-110  
Fused Loadbreak Elbow Connector Fuse Electrical Ratings and Catalog Numbers**

Nominal System Voltage Class - kV	Nominal Fuse Voltage Rating kV	Nominal Fuse Current rating in Amperes	Fuse Catalog Number	Maximum Continuous Current			Minimum Melt I <sup>2</sup> t (A <sup>2</sup> s)	Maximum Total I <sup>2</sup> t (A <sup>2</sup> s)
				25° C	40° C	65° C		
15.5	8.3	6	FEF083A006	8.9	8.5	8.0	710	3,800
		8	FEF083A008	12.1	11.7	10.9	1,000	5,425
		10	FEF083A010	15.0	14.4	13.5	1,200	5,825
		12	FEF083A012	16.6	16.0	15.0	1,200	5,825
		18	FEF083A018	21.9	21.1	19.7	1,500	8,000
		20	FEF083A020	25.5	24.6	23.0	2,425	12,000
		25	FEF083A025	34.5	33.2	31.1	4,500	20,500
		30	FEF083A030	40.1	38.7	36.2	6,000	26,200
25	15.5	40	FEF083A040	45.5	43.8	41.0	9,700	39,750
		6	FEF155A006	8.3	8.5	8.0	710	3,800
		8	FEF155A008	11.3	11.7	10.9	1,000	5,435
		10	FEF155A010	13.9	14.4	13.5	1,200	5,500
		12	FEF155A012	15.5	16.0	15.0	1,200	5,500
		18	FEF155A018	20.4	21.1	19.7	1,500	7,800
		20	FEF155A020	23.7	24.6	23.0	2,425	12,000

**Note:** Peak arc voltage levels found during testing were within the values specified for Distribution-Class Current-Limiting Fuses in ANSI® C37.47 Standard - latest edition.












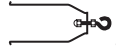
# 200 A Loadbreak & Deadbreak Connectors

1. To add a premolded **concentric neutral jacket seal** to the elbow kit, add the code "**GC\_**" (third digit is "jacket code" from the cable jacket range outside diameter range chart Table CJ1 on page 13) as the last characters in the part number.

2. Bail assembly included in kit.

3. Bail assembly is ordered separately.

4. See following for appropriate junction strap. For DJ250-2 and DJ250-T1, order 2639524B01. For DJ250-T2, order 2638617C01. For DJ250-4, consult factory.

Catalog Section	Description	kV Class	Base Part Number	Notes
 550-10	Deadbreak Elbow	15/25 kV	<b>DE225 CR4 CC3 T</b> (see CR4 & CC3 Tables, page 15)	1, 2
 550-12	Deadbreak Straight	15/25 kV	<b>DS225 CR4 CC3 T</b> (see CR4 & CC3 Tables, page 15)	1, 2
 I550-12	Deadbreak Junction	15/25 kV	<b>DJ250-4</b> (4-way)	3, 4
		15/25 kV	<b>DJ250-T1</b> (3-way, Type 1)	3, 4
		15/25 kV	<b>DJ250-T2</b> (3-way, Type 2)	3, 4
		15/25 kV	<b>DJ250-2</b>	3, 4
 I550-13	Insulated Deadend Plug	15/25 kV	<b>DPD250</b>	3
 I550-13	Insulated Standoff Bushing	15/25 kV	<b>DPS250</b>	3
 I550-13	Grounded Standoff Bushing	15/25 kV	<b>DPE250</b>	3
 I550-13	Deadbreak Protective Cap	15/25 kV	<b>DRC250</b>	2
 I550-15	Apparatus Bushing	15/25 kV	<b>DB250</b> <b>DB250S</b> (Short Shank) <b>DB250L</b> (Long Shank)	
 I550-13	Coppertop Connectors for Deadbreak Elbows	15/25 kV	<b>CC2C CC3 T</b> (see CC3 Table, page 15)	
 I550-13	Crimp Connectors for Deadbreak Straight	15/25 kV	<b>CC2C CC3 S</b> (see CC3 Table, page 15)	
 I550-13	Probe and Probe Wrench for Deadbreak Elbow	15/25 kV	<b>2638370C01EX</b> (Probe) <b>2639205B01</b> (Probe Wrench)	
 550-10	Bail Assembly for DE225	15/25 kV	<b>2638409C06B</b>	

**Use for  
Base Number**

DE225  
DS225

**TABLE CR4  
Cable Diameter (Insulation) Range**

Cable Diameter Range		CABLE RANGE CODE
Inches	Millimeters	
0.531-0.685	13.5-17.4	BA
0.640-0.820	16.3-20.8	DA
0.770-0.950	19.6-24.1	FA
0.910-1.130	23.1-28.7	HA
1.100-1.320	27.9-33.5	JA

**Use for  
Base Number**

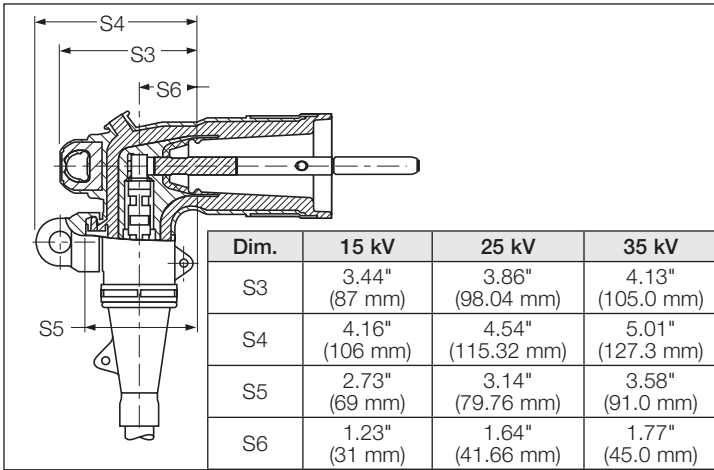
DE225  
DS225  
CC2C

**TABLE CC3  
Conductor Size and Type**

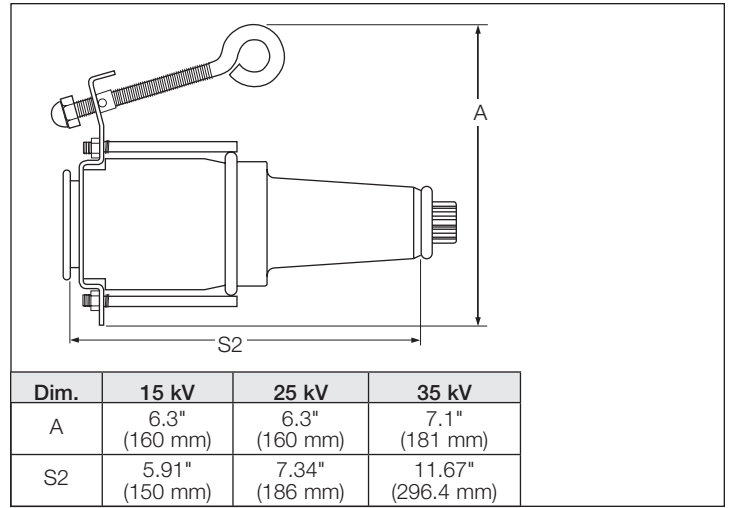
Concentric or Compressed		Compact or Solid		CONDUCTOR CODE
AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	
No Connector				00
#6	16	#4	-	01
#4	-	#3	25	02
#3	25	#2	35	03
#2	35	#1	-	04
#1	-	1/0	50	05
1/0	50	2/0	70	06
2/0	70	3/0	-	07
3/0	-	4/0	95	08
4/0	95	250	120	09
250*	120	300	-	10

\*Compressed stranding only.

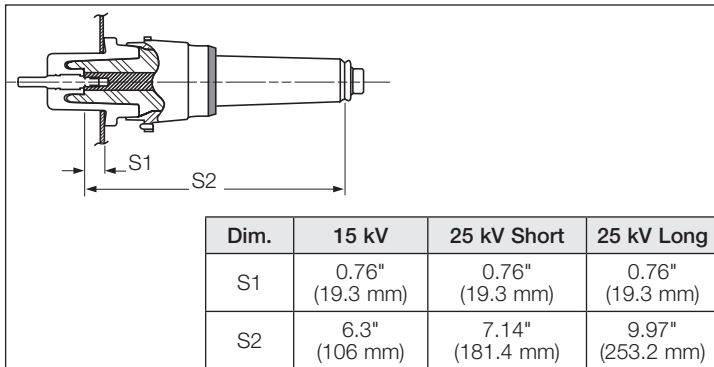
# 200 A Stacking Dimensions



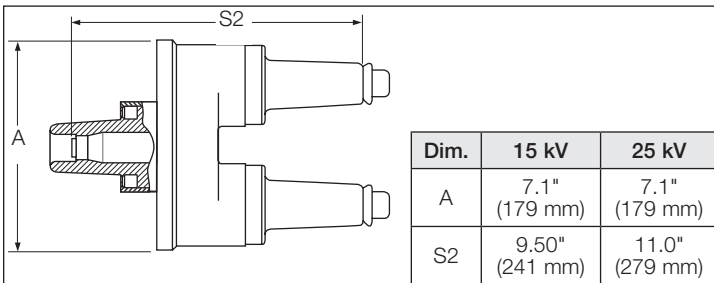
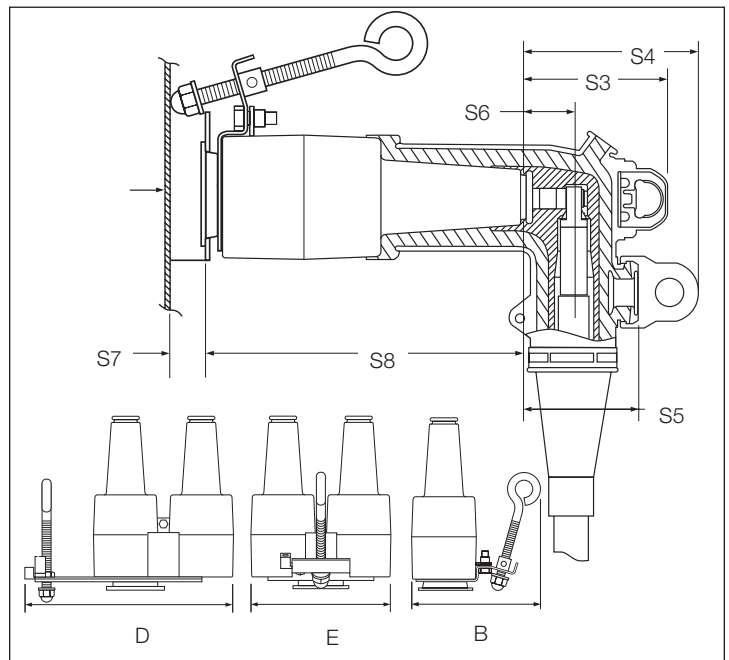
Elbow Connector (25 kV POSI-BREAK shown)



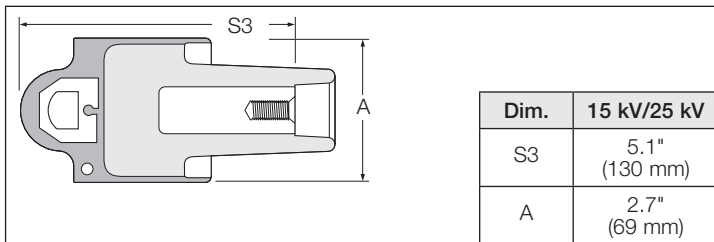
Insulated Standoff Bushing (25 kV shown)



Bushing Insert with Latch Ring Indicator (25 kV shown)



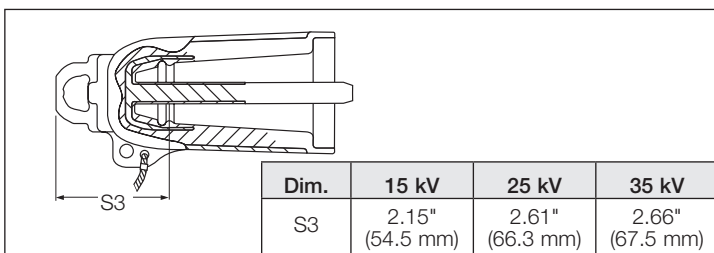
Rotatable Feedthru Insert (25 kV shown)



Insulated Bushing Well Plug

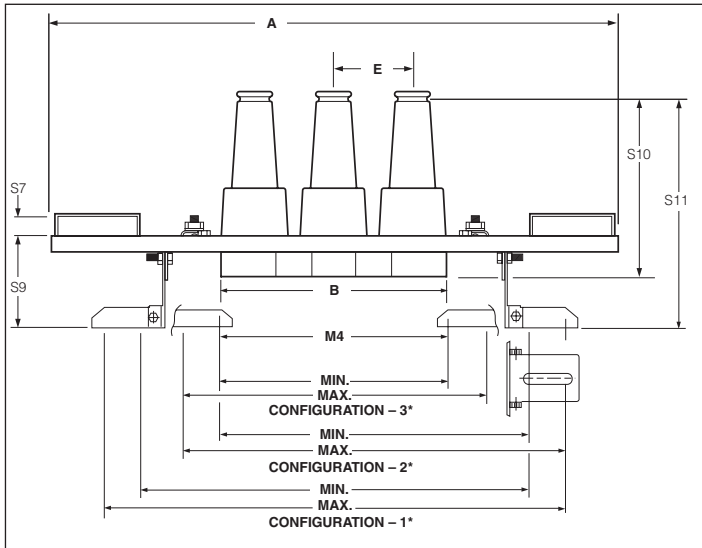
Dim.	15 kV		25 kV		35 kV	
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
B	5.6" (142.2 mm)	-	5.6" (142.2 mm)	-	7.2" (182.9 mm)	-
D	-	8.9" (226 mm)	-	8.9" (226 mm)	-	11.6" (294 mm)
E	6.0" (153 mm)	-	6.7" (171 mm)	-	8.8" (224 mm)	-
S3	3.44" (87 mm)	3.44" (87 mm)	3.86" (98 mm)	3.86" (98 mm)	4.13" (105 mm)	4.13" (105 mm)
S4	4.16" (106 mm)	4.16" (106 mm)	4.54" (115 mm)	4.54" (115 mm)	5.01" (127.3 mm)	5.01" (127.3 mm)
S5	2.73" (69 mm)	2.73" (69 mm)	3.14" (80 mm)	3.14" (80 mm)	3.58" (91 mm)	3.58" (91 mm)
S6	1.23" (31 mm)	1.23" (31 mm)	1.64" (42 mm)	1.64" (42 mm)	1.77" (45 mm)	1.77" (45 mm)
S7	0.75" (19 mm)	0.75" (19 mm)	0.75" (19 mm)	0.75" (19 mm)	0.75" (19 mm)	0.75" (19 mm)
S8	7.07" (180 mm)	7.20" (183 mm)	8.63" (219 mm)	8.77" (223 mm)	11.8" (300 mm)	11.8" (300 mm)

Loadbreak Portable Feedthru (15 kV shown)



Loadbreak Protective Cap (25 kV POSI-BREAK shown)





Dim.	15 kV	25 kV	35 kV
E	3.25" (83 mm)	4.0" (102 mm)	5.0" (127 mm)
S7	0.75" (19 mm)	0.75" (19 mm)	1.02" (26 mm)
S9	4.38" (111 mm)	4.38" (111 mm)	5.46" (139 mm)
S10	6.77" (172 mm)	8.34" (212 mm)	11.8" (299 mm)
S11	9.20" (234 mm)	10.77" (274 mm)	13.9" (163 mm)
M4	See Table 15 kV	See Table 25 kV	See Table 35 kV

**TABLE 15 kV**

Number of Interfaces	Physical Dimensions in./mm		M4 Mounting Dimensions in./mm					
			Configuration 1		Configuration 2		Configuration 3	
	A	B	Min.	Max.	Min.	Max.	Min.	Max.
2	12.5" (318 mm)	6.0" (152 mm)	10.8" (275 mm)	14.4" (366 mm)	7.2" (183 mm)	7.2" (275 mm)	3.6" (92 mm)	7.2" (183 mm)
3	19.6" (498 mm)	9.2" (230 mm)	14.7" (374 mm)	18.3" (465 mm)	11.1" (282 mm)	14.7" (374 mm)	7.4" (188 mm)	11.1" (282 mm)
4	22.9" (582 mm)	12.4" (315 mm)	17.9" (455 mm)	21.5" (547 mm)	14.3" (364 mm)	17.9" (455 mm)	10.7" (272 mm)	14.3" (364 mm)

Configuration 1. Both feet turned out.  
 Configuration 2. One foot turned out, one in.  
 Configuration 3. Both feet turned in.

**TABLE 25 kV**

Number of Interfaces	Physical Dimensions in./mm		M4 Mounting Dimensions in./mm					
			Configuration 1		Configuration 2		Configuration 3	
	A	B	Min.	Max.	Min.	Max.	Min.	Max.
2	14.2" (361 mm)	6.7" (170 mm)	11.9" (302 mm)	15.6" (396 mm)	8.0" (203 mm)	11.7" (297 mm)	4.2" (107 mm)	7.8" (198 mm)
3	23.0" (584 mm)	10.7" (272 mm)	16.8" (427 mm)	20.4" (518 mm)	12.9" (328 mm)	16.5" (419 mm)	9.0" (229 mm)	12.6" (320 mm)
4	27.0" (686 mm)	14.7" (373 mm)	20.8" (528 mm)	24.4" (620 mm)	16.9" (429 mm)	20.5" (521 mm)	13.0" (330 mm)	16.6" (422 mm)

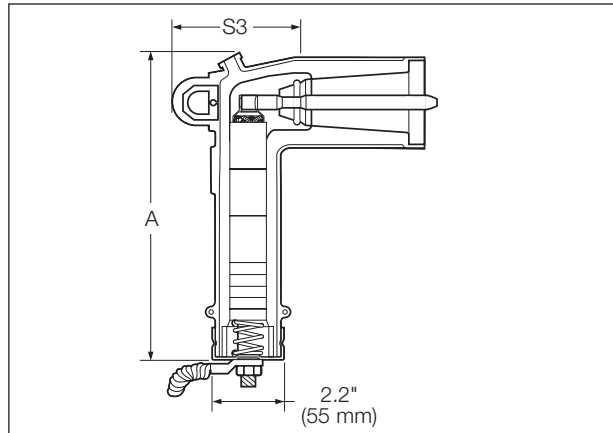
Configuration 1. Both feet turned out.  
 Configuration 2. One foot turned out, one in.  
 Configuration 3. Both feet turned in.

**TABLE 35 kV**

Number of Interfaces	Mounting Dimensions in./mm			
	A	B	C	D
2	23.1" (587 mm)	8.8" (223 mm)	**	**
3	33.3" (846 mm)	13.8" (350 mm)	**	**
4	38.5" (978 mm)	18.8" (477 mm)	**	**

\*\* Refer to Catalog Section 500-51 for detailed drawing of 35 kV junction.

**Loadbreak Junctions (15 kV shown)**



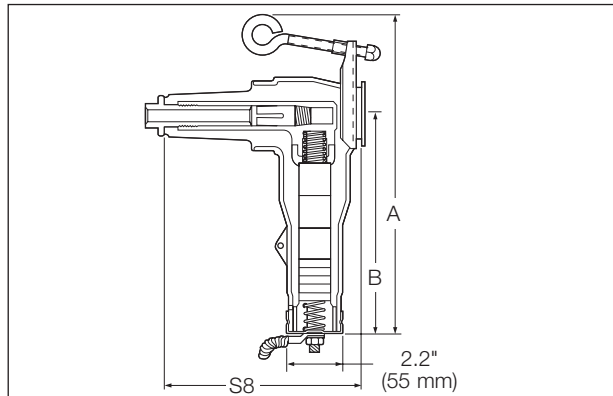
**M.O.V.E. Arrester**

Dim.	Duty Cycle (kV)	15 kV/25 kV	35 kV
A	9-15	8.5" (216 mm)	-
	18-27	10.9" (276 mm)	13.3" (338 mm)
S3	9-27	4.2" (107 mm)	4.7" (120 mm)

**M.O.V.E. Arrester**

Dim.	Duty Cycle (kV)	15 kV/25 kV	35 kV
A	3-27	8.5" (216 mm)	13.3" (338 mm)
S3	3-27	4.2" (107 mm)	4.7" (120 mm)

**Underground Surge Arresters**



**MOV Parking Stand Arrester**

Dim.	Duty Cycle (kV)	15 kV	25 kV
A	9-15	11.9" (302 mm)	11.9" (302 mm)
	18-21	14.5" (368 mm)	14.5" (368 mm)
B	9-15	8.0" (203 mm)	8.0" (203 mm)
	18-21	10.6" (269 mm)	10.6" (269 mm)
S8	9-21	7.4" (188 mm)	7.4" (188 mm)

**MOV Parking Stand Arrester**

Dim.	Duty Cycle (kV)	15 kV	25 kV
A	3-21	11.9" (302 mm)	11.9" (302 mm)
B	3-21	8.0" (203 mm)	8.0" (203 mm)
S8	3-21	7.4" (188 mm)	7.4" (188 mm)

**Parking Stand Arresters**

## Clēer Loadbreak Connector: New 600 Amp Loadbreak Technology Provides Efficient, Reliable Visible Break and Visible Ground



Cooper Power Systems Clēer 600 A Loadbreak Connector System cuts operating time in half and achieves visible break without requiring removal of 600 A bolted terminations, or moving heavy cables. See page 20 for more information.

### Clēer Loadbreak Connector System

The Clēer™ Loadbreak Connector System is a 600 A loadbreak device rated for operation on 15 kV class systems. It is used to provide a visible break and visible ground on 600 A network and distribution systems without having to remove 600 A terminations and move heavy cable. The Clēer Loadbreak connector System is fully shielded, submersible and meets the applicable requirements of IEEE Std 386™-2006 standard - "Separable Insulated Connector Systems".

Many configurations are possible with this connector system. Under normal operating conditions, the current path is through one of the 600 A loadbreak/deadbreak 2-position junctions (DLJ615), through the 600 A loadbreak "C" (LCN) connector and through the second 600 A loadbreak/deadbreak junction.

When isolating underground cable, with the system energized or de-energized, with or without rated load current, with the use of a clampstick, the LCN connector can be removed. A 600 A loadbreak protective cap (LPC615) can then be installed on the two exposed loadbreak interfaces. All bushings of the connector system are then insulated and deadfront. If a 600 A termination with a 200 A reducing tap plug is used on the IEEE Std 386™-2006 standard 600 A 15/25 kV deadbreak interfaces of the junction, a grounding elbow can be installed, providing a visible ground. It is then safe to perform work on the underground cable.

#### 600 A 15 kV Class Clēer Loadbreak Connector Specification Information

To capitalize on the benefits of our 600 A 15 kV Class Clēer Loadbreak Connector System include the following information in your specification:

- The 200 A Elbows and Accessories shall be 21.1 kV/36.6 kV three-phase rated, meeting the requirements of IEEE Std 386™ standard interface No. 1A (large 35 kV class interface).

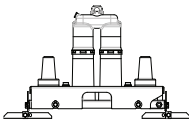
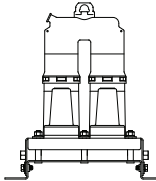
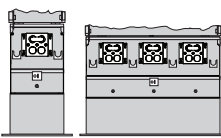
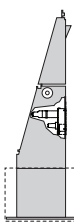
Once an underground circuit is sectionalized, for maximum safety, a visible break and visible ground must be achieved prior to performing any repair or maintenance. Distribution feeders can easily retrofit the Clēer Loadbreak Connector System into 600A applications, allowing operators confidence when working on a piece of underground equipment or cable as they can clearly see the open circuit.

Clēer Loadbreak Connectors allow the operator to safely pull the loadbreak interface while the system is energized to sectionalize the system into smaller segments to prevent taking longer outages. The Clēer 600A Loadbreak Connector makes this easy:

- C-shape Clēer Loadbreak Connector is tested for ten loadbreak and loadmake operations at 600A and receives a full 12 kA fault-closure; additionally Clēer Loadbreak Connector is tested for three 900A loadbreak and loadmake switching operations and receives a full 25 kA fault-closure.
  - The C-shaped connector breaks the circuit in two places for twice the contact separation.
- The new Clēer Loadbreak Connector incorporates field-proven Cooper Power Systems POSI-BREAK™ technology which provides:
  - Increased strike distance, greatly reducing the possibility of partial vacuum flashovers
  - Added dielectric strength along the probes for superior switching performance and reliability
- The remainder of this simple system consists of:
  - Two Cooper Power Systems 600A loadbreak interfaces
  - Two IEEE std 386™-2006 standard 600A deadbreak interfaces
- A yellow latch indicator is included to assure positive connection
- Fully submersible, and exceeds the applicable requirements of IEEE std 386™-2006 standard for use in above- and underground environments prone to flooding
- When using BT-TAP or T-OP II connectors a visible ground can be achieved by connecting a grounding elbow directly to a 200A loadbreak reducing tap plug.

# 600 A Loadbreak Connectors

1. Recessed base allows for an additional 1-1/2" stacking from backplate.

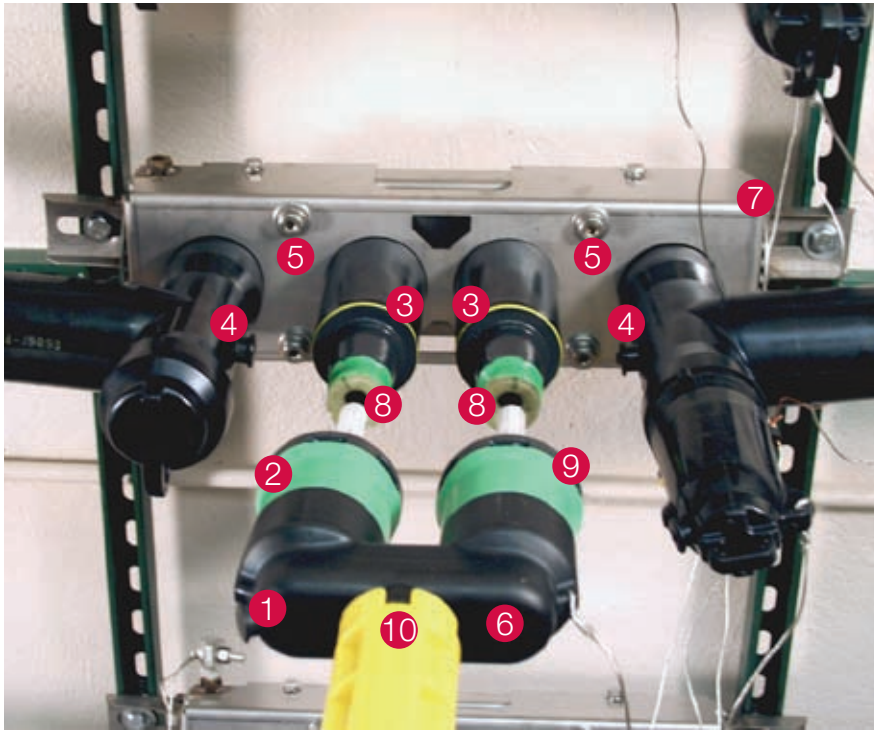
Catalog Section	Description	kV Class	Base Part Number	Notes
600-100	 Loadbreak Connector Assembly includes: two loadbreak/deadbreak junctions with loadbreak "C" connector assembled in an In-Line SS Bracket	15 kV	LCN2DLJ615A2ILB	
	 Loadbreak Connector assembly includes: two loadbreak/deadbreak junctions with loadbreak "C" connector assembled in a Square SS Bracket		LCN2CLJ615A2SQB	
	Loadbreak/deadbreak 2-position Junction (aluminum)		DLJ615A2	
	Insulated Loadbreak Protective Cap		LPC615	
1000-20	Loadbreak "C" Connector		LCN615	
<b>Clēer SecTER</b>				
	14 Gauge Steel Tank 1-Phase	15 kV	SEC1P15CLEERA2 (30H x 24W x 22D)	1
	14 Gauge Steel Tank 3-Phase	15 kV	SEC3P15CLEERA2 (30H x 66W x 22D)	
<b>Clēer GROUND SLEEVES</b>				
	Fiberglass Ground Sleeve 1-Phase	15 kV	00400LOOK02G (18H x 24W x 22D) 00400LOOK05G (30H x 24W x 22D)	
	Mild Steel Ground Sleeve 1-Phase		0400LOOK10GM (24H x 24W x 22D)	
	Fiberglass Ground Sleeve 3-Phase	15 kV	00450LOOK05G (18H x 66W x 22D) 00450LOOK08G (30H x 66W x 22D)	
	Mild Steel Ground Sleeve 1-Phase		0450LOOK18GM (24H x 66W x 22D)	

## Performance Test Results - 15kV Class 600A Loadbreak Connector System Ratings per Modified IEEE Std 386™-2006 standard

600 A Loadbreak Interface	
Continuous Current	600 A rms
Loadbreak Switching	Ten make and break operations at 600 A at 14.4 kV Phase-Phase
	Three make and break operations at 900 A at 14.4 kV Phase-Phase
Fault Closure	16 kA rms symmetrical at 14.4 kV Phase-Phase after ten 600 A loadbreak switching operations for 0.17 seconds
	16 kA rms symmetrical at 14.4 kV Phase-Phase after three 900 A loadbreak switching operations for 0.17 seconds
4 Hour Overload Current	900 A rms
Short Time Current	16 kA rms symmetrical for 0.17 seconds (limited by fault closure rating)
	10 kA rms symmetrical for 3.0 seconds
IEEE Std 386™ -2006 standard 600 A, 15/25 kV Deadbreak Interface	
Continuous Current	600 A rms
4 Hour Overload Current	900 A rms
Short Time Current	16 kA rms symmetrical for 0.17 seconds
	10 kA rms symmetrical for 3.0 seconds

Current ratings and characteristics are in accordance with applicable IEEE Std 386™-2006 standard requirements.

# 600 A Loadbreak Connectors



1. EPDM semi-conductive material and insulation
2. Green cuff and nose-piece for 600A 15kV loadbreak identification
3. Loadbreak Interface
4. Deadbreak Interface IEEE std 386™-2006 standard interfaces
5. Deadbreak/Loadbreak junction (2) (current path indicated by dotted line)
6. POSI-BREAK technology inside
7. Adjustable bracket
8. 600A Loadbreak Probes
9. Latch design and indication window
10. Standard operating eye

## Perfect Solution for Multiple Applications

The compact design of the Clēer 600A Loadbreak Connector System allows numerous configurations and applications, including use in space-constrained locations such as vaults, manholes, and sectionalizing cabinets:



### In-line or Replacement of Oil/Vacuum Switches

- Easily retrofittable
- Provides a visible break, assuring a circuit is de-energized prior to performing maintenance for added safety
- The submersibility of this device makes it suitable for installations above- and underground



### Sectionalizing

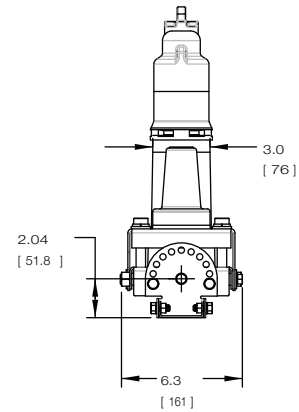
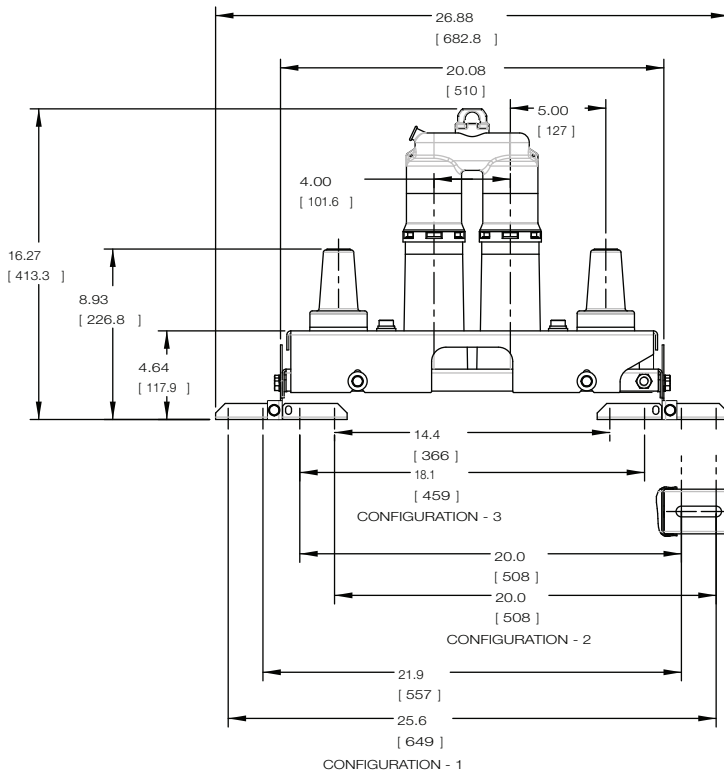
- Allows for isolating a circuit to perform maintenance
- Provides a visible break and grounding point for added safety



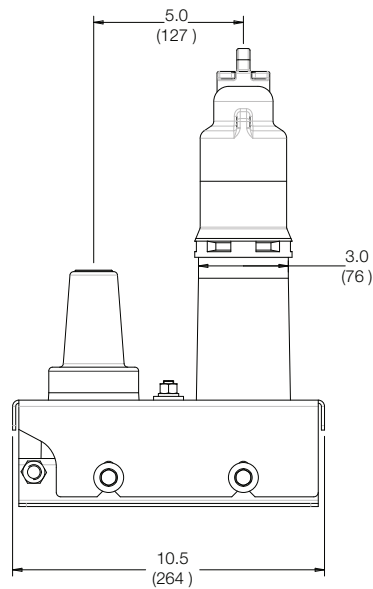
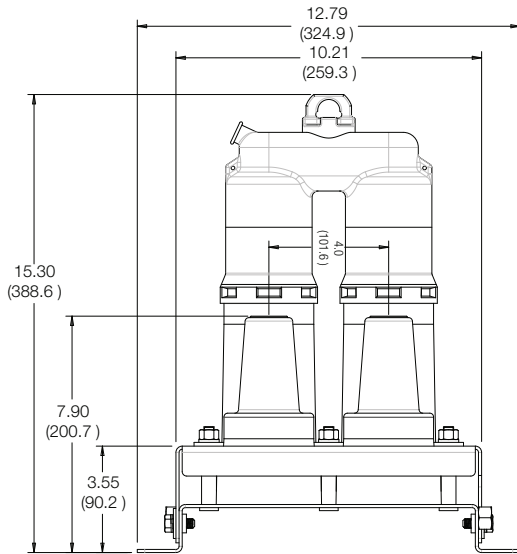
### Separable Splicing for Long Cable Runs

- Provides loadbreak capability
- More efficient than other deadbreak splicing alternatives with quick and easy separation of circuits

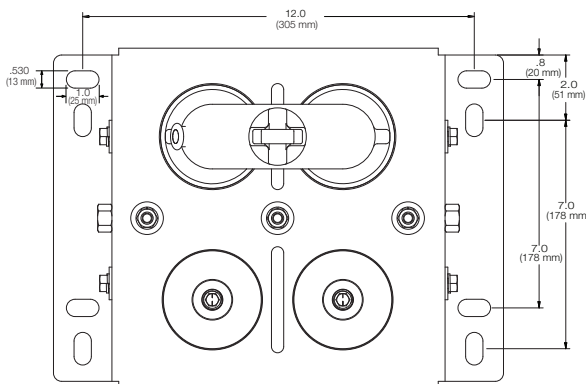
# 600 A Loadbreak Dimensions



Clēer Loadbreak Connector Assembly (In-Line SS Bracket).



Clēer Loadbreak Connector Assembly (Square SS Bracket).



# 600/900 A Deadbreak Connectors

Our 600/900 A Deadbreak Connector Systems are designed to fill the demand for a deadfront underground installation in 600/900 A main and lateral feeders. They provide a completely shielded, deadfront, fully submersible cable connection for high-voltage apparatus – such as transformers, switchgear, large motors, etc., and can also be used to make splices, junctions, taps and deadends for main underground, distribution feeders. They provide the same high degree of operating flexibility and reliability as our 200 A products. All components fit together easily and assembly variations are available.

These connector systems are designed for installation on various types of cables. The entire system can be applied to concentric neutral cable, and with our CS & SA Series Shield Adapter Kits to almost any other type of cable.

All of our Deadbreak Connectors meet the electrical, mechanical and dimensional requirements of IEEE Std 386™ standard and are designed to be fully interchangeable with those currently available from other major manufacturers.

## 900 A RATING

A 900 A continuous rating can be achieved with BOL-T™, BT-TAP™ and T-OP™ II Systems when used with a coppertop compression connector and all copper mating components including apparatus bushing or junction. (See note 1 on page 19 for details when selecting a system.)

### BOL-T Connector System

Our BOL-T Deadbreak Connector System is designed for use on applications where the terminations would not be operated after installation, would not need a 200 A interface for grounding or arrester provisions, and would not require direct conductor testing or the use of a hotstick. It is a bolted design that is interchangeable with other manufacturers' bolted 600/900 A systems and requires no special tools for installation.

### BT-TAP Connector System

Our BT-TAP Deadbreak Connector System includes a 200 A loadbreak tap instead of the standard insulated plug. The other components of BT-TAP are the same as BOL-T, making it an ideal option to retrofit existing BOL-T (or other bolted systems that use unthreaded compression connectors) systems with a 200 A loadbreak tap for testing, grounding, or overvoltage protection.

### T-OP II Connector System

Our T-OP II Deadbreak Connector System also has a 200 A loadbreak tap and has all the advantages of the BT-TAP System. In addition, the T-OP II is single-person hotstick operable, making it ideal for terminations that may require moving or sectionalizing to achieve a visible open or visible ground. The T-OP II design offers added reliability (900 A rated all copper alloy current path and copper top connector) and has several assembly/operating advantages.

### PUSH-OP Connector System

Our PUSH-OP™ Deadbreak Connector System is essentially a T-OP II Termination with a non-bolted design for use on any deadfront apparatus where the terminations may be operated frequently. The PUSH-OP 600 A deadbreak probe and finger

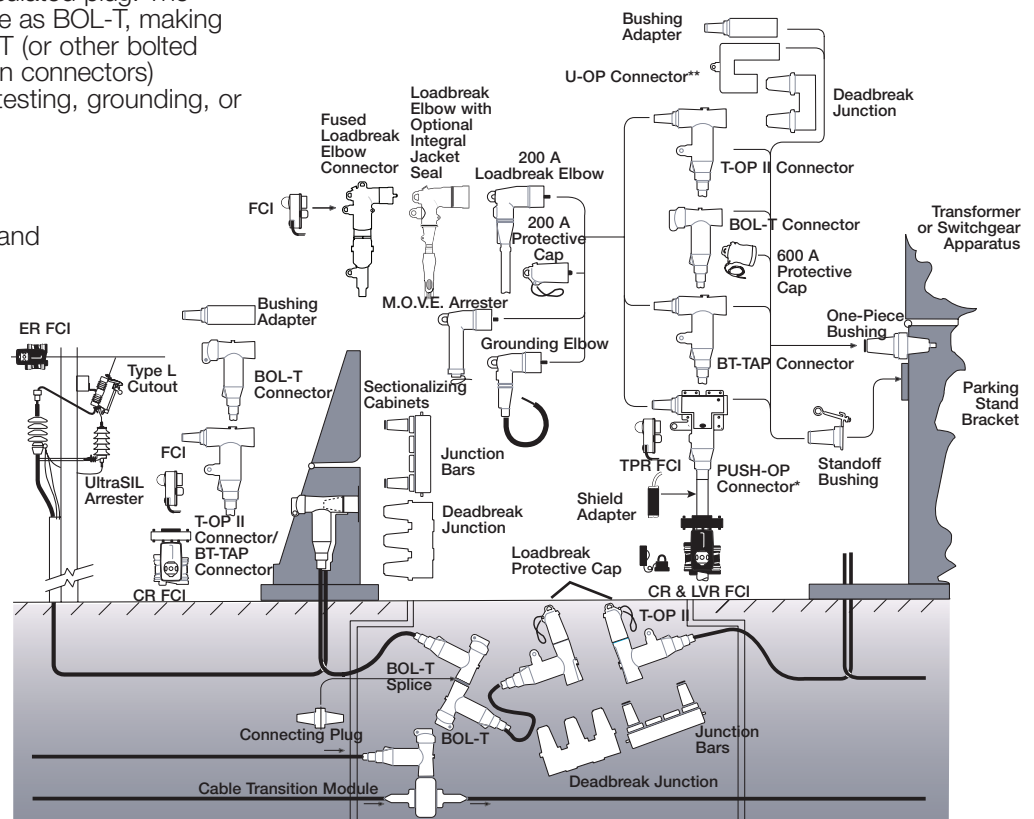


contact design eliminates cross-threading and normal thread wear during repeated sectionalizing operations. It is the only available system that allows operators to move the terminator while it is fully grounded. The PUSH-OP System provides stainless steel bracketry and a mechanical lever for the fastest and easiest one-person hotstick operation possible. The PUSH-OP System requires special apparatus bushings, which makes it suitable for new installations only.

### U-OP Connector System


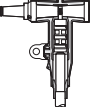
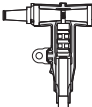
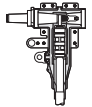

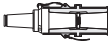
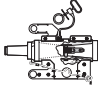
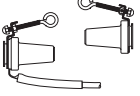
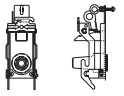
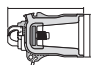
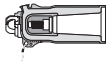
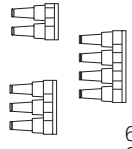
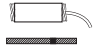
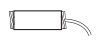
Our U-OP™ Deadbreak Connector System is used with T-OP II and designed to provide a visible break and visible ground without having to move large 600 A cable. The U-OP System requires special apparatus bracketry, which makes it suitable for new installations only.

**Note:** 600 A Separable Splice kits can be found in the splice section starting on page 32.



\* PUSH-OP requires modified bushing and tank hardware.

\*\* U-OP requires frontplate stud provisions. Refer to Installation Instructions S600-14-1 for details.

Catalog Section	Description	kV Class	Base Part Number	Notes
 600-10 600-30 600-50	BOL-T Connector Kit	15/25 kV	<b>BT625 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	1, 2, 3, 4, 13, 14
		35 kV	<b>BT635 CR6 CC4</b> (see CR6 & CC4 Tables pg. 20)	1, 2, 3, 4, 13, 14
 600-15 600-35 600-55	BT-TAP Connector Kit	15 kV	<b>BTP615 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	1, 2, 3, 4, 6, 13, 14
		25 kV	<b>BTP625 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	1, 2, 3, 4, 6, 13, 14
		35 kV	<b>BTP635 CR6 CC4</b> (see CR6 & CC4 Tables pg. 20)	1, 2, 4, 6, 13, 14
 600-12 600-32 600-52	T-OP II Connector Kit	15 kV	<b>TP615 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
		25 kV	<b>TP625 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
		35 kV	<b>TP635 CR6 CC4</b> (see CR6 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
 600-13 600-33 600-53	PUSH-OP Connector Kit	15 kV	<b>POP615 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
		25 kV	<b>POP625 CR5 CC4</b> (see CR5 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
		35 kV	<b>POP635 CR6 CC4</b> (see CR6 & CC4 Tables pg. 20)	2, 5, 6, 13, 14
 600-34	U-OP Connector Kit	15/25 kV	<b>UOP625</b>	
 600-18 600-38 600-59	Bushing Adapter with LRTP (Stud-T Included)	15 kV	<b>DBA615</b>	6
		25 kV	<b>DBA625</b>	6
		35 kV	<b>DBA635</b>	6
 600-19 600-39 600-58	PUSH-OP Bushing Adapter	15 kV	<b>PDBA615</b>	6
		25 kV	<b>PDBA625</b>	6
		35 kV	<b>PDBA635</b>	6
 600-44 600-64	Standoff Bushings	15/25 kV	<b>ISB625A</b> (Aluminum) <b>ISB625C</b> (Copper)	7, 8
		35 kV	<b>ISB635A</b> (Aluminum) <b>ISB635C</b> (Copper)	7, 8
				7
 600-25 600-45 600-65	PUSH-OP Standoff Bushings	15/25 kV	<b>PISB625</b> <b>PISB625HP</b> (with hitch pin)	
		35 kV	<b>PISB635</b> <b>PISB635HP</b> (with hitch pin)	
 600-43 600-63	Standard Protective Cap (with Permanent Stud)	15/25 kV	<b>DPC625</b>	9
		35 kV	<b>DPC635</b>	9
 600-43 600-63	Protective Cap for T-OP II and U-OP	15/25 kV	<b>DPC625UT</b>	9
		35 kV	<b>DPC635UT</b>	9
 600-42 600-62	Deadbreak Junctions	15/25 kV	<b>DJ625A</b> (Aluminum) <b>DJ625C</b> (Copper)	10, 11
				10, 11
		35 kV	<b>DJ635A</b> (Aluminum) <b>DJ635C</b> (Copper)	10, 11
 500-95	SA Series Cold Shrinkable Metallic Shield Adapter Kit	15/25/35 kV	<b>SA CJ3</b> (see CJ3 Table pg. 20)	12, 13, 14
 500-95	CS Series Cold Shrinkable Metallic Cable Seal Kit	15/25/35 kV	<b>CS CJ4</b> (see CJ4 Table pg. 20)	13, 14

- Determine whether all aluminum components or all copper components are required:  
**BOL-T Kit with 600 A Rating** - Insert "A" in digit 9 for Aluminum.  
**BT-TAP Kit with 600 A Rating** - Insert "A" in digit 10 for Aluminum.  
**BOL-T Kit with 900 A Rating** - Insert "C" in digit 9 for Copper (includes coppertop compression connector).  
**BT-TAP Kit with 900 A Rating** - Insert "C" in digit 10 for Copper (includes coppertop compression connector).
- To specify an **ALL copper connector**, add 50 to the conductor code from Table CC4 (page 20). **Example:** CC6C11T becomes CC6C61T.
- To specify a **stud**:  
**BOL-T Kit** - insert a "1" in digit 10 to include stud, or a "2" in digit 10 for kit without stud.  
**BT-TAP Kit** - insert "S" in digit 11 to include standard length stud or "L" in digit 11 to include extended length stud.
- To specify T-Body with test point (optional):  
**BOL-T Kit** - insert a "T" in digit 11.  
**BT-TAP Kit (15 & 25 kV)** - insert a "T" in digit 12.  
**BT-TAP Kit (35 kV)** - insert a "T" in digit 11.
- For T-OP II and PUSH-OP kits only, to specify a T-body with test point, add "T" after the conductor code.
- To specify a **BOL-T, BT-TAP or T-OP II** kit with a **loadbreak protective cap**, insert a "C" after the test point/non-test point option. **Bushing Adapters** - insert a "C" as the last character of the part number. **Note:** 25 kV kits include a **POSI-BREAK protective Cap**.
- To specify stud in kit, add "SA" for aluminum stud (only available with aluminum interface); add "SC" for copper stud; add "ST" for T-OP II stud; or add "SU" for U-OP stud as the last characters in the part number.
- To specify a **grounded standoff bushing**, replace the "I" with a "G" as the first character in the part number.
- For **individually packaged** product in a corrugated cardboard box, insert an "X" as the last character in the part number.
- It is required to specify the number of interfaces by inserting a "2", "3", or "4" directly after the base part number.
- To add a **stainless steel bracket**, insert a "B"; or to add **U-straps**, insert a "U" as the last character in the part number.
- For use with tape shield, drain wire, linear corrugated, and Unishield® cable.
- To add a **CS Series Sealing kit** or a **SA Series Adapter kit** to the 600 A connector kit, add a "CS \_" or "SA \_" at end of catalog number. Refer to Table CJ3 or CJ4 on page 20.
- Each **SA Series Kit** includes:  
 (1) Cold Shrinkable Sleeve (1) Tinned Copper Ground Strap with attached elbow drain wire (1) Constant Force Spring (1) Semi-Conductive Tape (3) Mastic Sealing Strips (1) Installation Instructions.  
**Each CS Series Sealing Kit** includes:  
 (1) Cold shrinkable sleeve, (3) Mastic sealing strips, and (1) Installation Instructions.

# 600/900 A Components & Replacement Parts

## Use for Base Number

BT625  
BTP615  
BTP625  
TP615  
TP625  
POP615  
POP625  
CA625

**TABLE CR5**  
Cable Diameter (Insulation) Range

Cable Diameter Range		
Inches	mm	CABLE RANGE CODE
0.610-0.970	15.5-24.6	AB
0.750-1.080	19.1-27.4	CC
0.970-1.310	24.6-33.3	DD
1.090-1.470	27.7-37.3	EE
1.260-1.640	32.0-41.7	FF
1.360-1.710	34.5-43.4	GG
1.510-1.850	38.4-47.0	HH
1.700-1.970	43.2-50.0	JJ

## Use for Base Number

BT635  
BTP635  
TP635  
POP635  
CA635

**TABLE CR6**  
Cable Diameter (Insulation) Range

Cable Diameter Range		
Inches	mm	CABLE RANGE CODE
0.875-0.985	22.2-25.0	D
0.930-1.040	23.6-26.4	E
0.980-1.115	24.9-28.3	F
1.040-1.175	26.4-29.8	G
1.095-1.240	27.8-31.5	H
1.160-1.305	29.5-33.1	J
1.220-1.375	31.0-34.9	K
1.285-1.395	32.5-35.4	L
1.355-1.520	34.4-38.6	M
1.485-1.595	37.7-40.5	N
1.530-1.640	38.9-41.7	P
1.575-1.685	40.0-42.8	Q
1.665-1.785	42.3-45.3	R
1.755-1.875	44.6-47.9	S
1.845-1.965	46.9-50.0	T
1.960-2.210	49.8-56.1	U

## Use for Base Number

BT625  
BT635  
BTP615  
BTP625  
BTP635  
TP615  
TP625  
TP635  
POP615  
POP625  
POP635  
CC6A \_ U  
CC6C \_ T  
CC6C \_ U

**TABLE CC4**  
Conductor Size and Type

Concentric or Compressed		Compact or Solid		CONDUCTOR CODE
AWG or kcmil	mm <sup>2</sup>	AWG or kcmil	mm <sup>2</sup>	
No Connector				00
#2	35	1	—	11
#1	—	1/0	50	12
1/0	50	2/0	70	13
2/0	70	3/0	—	14
3/0	—	4/0	95	15
4/0	95	250	120	16
250	120	300	—	17
300	—	350	—	18
350	—	400	185	19
400	185	450	—	20
450	—	500 <sup>a</sup>	240	21
500	240	600	300	22
600	300	700	—	23
650 <sup>b</sup>	—	750 <sup>c</sup>	—	24
750 <sup>d</sup>	—	900	—	25
900	—	1000	500	26
1000	500	—	—	27
1250	630	—	—	28

- a. Also accepts 550 kcmil compact conductor.  
b. Also accepts 700 kcmil compressed conductor.  
c. Also accepts 800 kcmil compact conductor.  
d. Also accepts 700 kcmil concentric conductor.

## Use for Base Number

SA

**TABLE CJ3**  
Cable Jacket (Outside Diameter) Range

Cable Jacket OD (Inches)	JACKET CODE
0.590-1.050	1
0.830-1.640	2
1.270-2.170	3
1.600-2.600	4






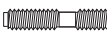












## Use for Base Number

CS

**TABLE CJ4**  
Jacketed Concentric Neutral Cable

Minimum Seal Diameter (Inches)	Maximum Installed Diameter (Inches)	CODE
.950	1.94	1
1.28	2.67	2
1.60	3.50	3



Catalog Section	Description	kV Class	Base Part Number	Notes
	T-Body	15/25 kV	<b>DT625</b>	1, 2
		35 kV	<b>DT635</b>	1, 2
600-46 600-66				
	Cap for Insulating Plug	15/25/35 kV	<b>DIPCAP</b>	
600-46 600-66				
	Insulating Plug w/o Stud (cap included)	15/25 kV	<b>DIP625A</b> (Aluminum) <b>DIP625C</b> (Copper)	3, 7
		35 kV	<b>DIP635A</b> (Aluminum) <b>DIP635C</b> (Copper)	3, 7
600-46 600-66				
	Connecting Plug w/o Stud	15/25 kV	<b>DCP625A</b> (Aluminum) <b>DCP625C</b> (Copper)	3, 7
		35 kV	<b>DCP635A</b> (Aluminum) <b>DCP635C</b> (Copper)	3, 7
600-46 600-66				
	BOL-T Stud	15/25 kV	<b>STUD-A</b> (Aluminum) <b>STUD-C</b> (Copper)	
		35 kV	<b>STUD635-A</b> (Aluminum) <b>STUD635-C</b> (Copper)	
600-46 600-66				
	T-OP II/BT-TAP Stud	15/25/35 kV	<b>STUD-T</b>	4
600-46 600-66				
	U-OP Stud	15/25/35 kV	<b>STUD-U</b>	5
600-46 600-66				
	1 1/16 in. Unthreaded Aluminum Compression Connector	15/25/35 kV	<b>CC6A CC4 U</b> (see CC4 Table pg. 20)	
600-46 600-66				
	15/16 in. Threaded Coppertop Compression Connector	15/25/35 kV	<b>CC6C CC4 T</b> (see CC4 Table pg. 20)	6
600-46 600-66				
	1 1/16 in. Unthreaded Coppertop Compression Connector	15/25/35 kV	<b>CC6C CC4 U</b> (see CC4 Table pg. 20)	6
600-46 600-66				
	Cable Adapter	15/25 kV	<b>CA625 CR5</b> (see CR5 Table pg. 20)	
		35 kV	<b>CA635 CR6</b> (see CR6 Table pg. 20)	
600-46 600-66				
	BT-TAP and T-OP II Installation and Torque Tool	15/25 kV	<b>TQHD625</b> (15/25 kV-T-OP II Only)	8
		35 kV	<b>TQHD635</b> (35 kV BT-TP and T-OP II)	
600-46 600-66				
	T-OP II Combination Operating, Test, and Torque Tool (For single person hotstick operation)	15 kV	<b>OTTQ615</b>	9
		25 kV	<b>OTTQ625</b>	9
		35 kV	<b>OTTQ635</b>	9
600-46 600-66				
	T-WRENCH for BT-TAP/T-OP II	15/25/35 kV	<b>TWRENCH</b>	10
600-46 600-66				
	5/16" Hex Shaft with 3/8" Socket Drive Tool	15/25 kV	<b>HD625</b>	11
		35 kV	<b>HD635</b>	11
600-18 600-38 600-59				
	Bushing Extender	15/25 kV	<b>DBE625</b>	2
		35 kV	<b>DBE635</b>	2
600-18 600-38 600-59				
	Loadbreak Reducing Tap Plug for T-OP II (Stud-T included)	15 kV	<b>LRTP615</b>	
		25 kV	<b>LRTP625</b>	
		35 kV	<b>LRTP635</b>	
600-18 600-38 600-59				
	BOL-T Loadbreak Reducing Tap Plug for BT-TAP	15 kV	<b>BLRTP615</b>	12, 13
		25 kV	<b>BLRTP625</b>	12, 13
		35 kV	<b>BLRTP635</b>	
600-18 600-38 600-59				

- To specify a **test point** insert a "T" in the sixth digit.
- To add stud to kit, add a "SA" for an **aluminum stud**, or a "SC" for a **copper stud** as the last characters in the part number.
- To add **STUD** to kit, add a "S" after the base part number. Material of stud supplied will match with material of the plug conductor ordered.
- Copper alloy stud for use with BT-TAP or T-OP II Connectors only.
- Copper stud for use with U-OP Connector only.
- To specify an **all copper connector**, add **50** to the conductor code from Table CC4 (page 20). Example: CC6C11T becomes CC6C61T.
- Stud comes loose in kit, add a "P" as the last character for permanent **factory installation**.
- TQHD6\_ allows for installation of either BT-TAP or T-OP II Connector to 600 A bushing.
- OTTQ6\_ allows for installation and single hotstick operation of either the BT-TAP or T-OP II Connector.
- TWRENCH allows for installation of loadbreak reducing tap plug for BT-TAP or T-OP II Connector.
- HD6\_ allows for installation of connecting plug in 600 A Separable Splices.
- Specify "A" for 600 A rating or "C" for 900 A rating in digit 9.
- To add standard length stud to kit, add "S" to end of part number. To add an extended length stud to kit add "L" to end of part number.

## BOL-T Connector System

The BOL-T Deadbreak Connector System is designed for use on applications that will not be operated, do not need grounding or arrester provisions, and do not require direct conductor testing or the use of a hotstick. It is a bolted design that is interchangeable with other manufacturers' bolted 600 A systems that require no special tools for installation.

The capacitive test point on the insulating plug provides a means of confirming an energized circuit without disturbing the bolted connection. In addition to the capacitive test point feature on the insulating plug, we offer a capacitive test point on the T-Body. This allows the use of our Type "TPR" Series Faulted Circuit Indicators, and provides a means of confirming that a circuit is energized when used with high impedance voltage sensing devices designed for test points.

Refer to Figure 1 for BOL-T Connector Kit Components.

### Installation of BOL-T on a 600/900 A Bushing

The BOL-T Connector is installed on any 600/900 A bushing using a standard 1-inch socket. No special tools are required.

#### BOL-T Specification Information

To specify the BOL-T Connector System, include in your specification:

- The system must fully comply with IEEE Std 386™ standard.
- All cable adapters, insulating plugs, compression connectors and other component parts must be interchangeable with other manufacturers.
- For 900 A rating, full copper current carrying path with coppertop compression connector, copper stud and insulating plug with copper insert.
- BOL-T Connector System base part number BT625 for 15 kV and 25 kV systems and BT635 for 35 kV systems.

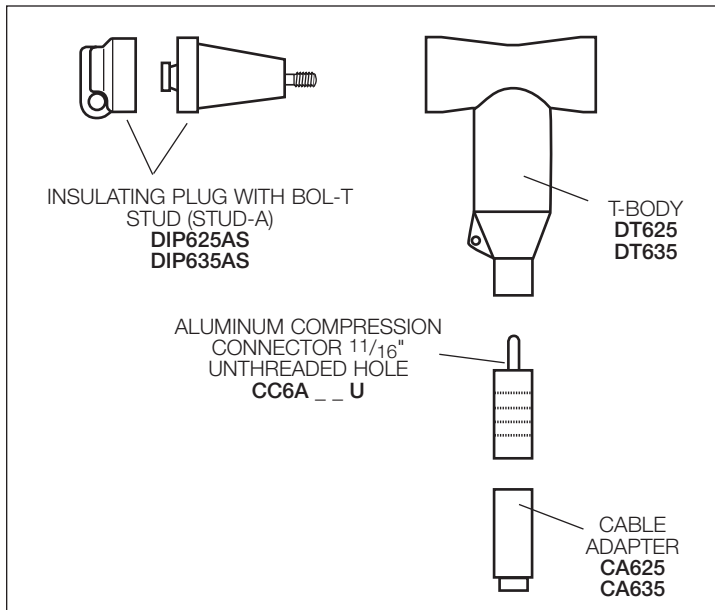


Figure 1. BOL-T Connector Kit (BT6\_5) Components. For more details, see catalog sections 600-10, 600-30 and 600-50.

## BT-TAP Connector System

The BT-TAP Deadbreak Connector System is designed for use on applications where a 200 A interface is required for testing, grounding, or overvoltage protection. It is primarily used in retrofit applications of existing 600 A or 900 A BOL-T installations (or other bolted systems that use unthreaded compression connectors).

The BT-TAP Connector System uses the standard unthreaded compression connector, which makes it ideal for retrofitting existing BOL-T installations into a system with a 200 A tap.

The BT-TAP provides the following features:

- Visible ground and visible break
- 200 A Interface for:
  - addition of our M.O.V.E. Arresters for overvoltage protection
  - addition of our Grounding Elbows
  - access for direct conductor phasing and testing
  - hipot testing of switch or cables

Refer to Figure 2 for BT-TAP Connector Kit Components.

### Installation of BT-TAP on a 600 A Bushing

The BT-TAP Connector is installed on an apparatus bushing using a 600 A Torque Tool.

#### BT-TAP Specification Information

To specify a BT-TAP Connector System, include in your specification:

- The system must fully comply with IEEE Std 386™ standard.
- The connector system must provide operation with hot line tools, direct conductor phasing and testing.
- It must provide a location to add overvoltage arresters and access for direct conductor phasing or hipot testing of switch or cables.
- Must be easy to install with proper torque such that concern for cross threading is eliminated.
- Loadbreak reducing tap plug must include latch indicator ring.
- BT-TAP Connector System base part number BTP615 (A) (C) for 15 kV, BTP625 (A) (C) for 25 kV and BTP635 for 35 kV.

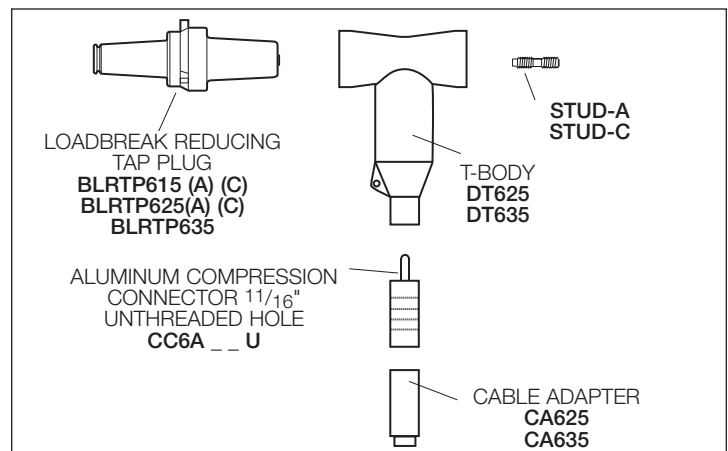


Figure 2. BT-TAP Connector Kit (BTP6\_5) Components. For more details, see catalog sections 600-15, 600-35 and 600-55.

## T-OP II Connector System

The T-OP II Deadbreak Connector System is designed for use on applications where a 200 A interface is required for testing, grounding, or overvoltage protection. It is single person hotstick operable and is ideal for terminations that may require moving to achieve a visible open or visible ground. One person can move the T-OP II Deadbreak Terminator from the apparatus bushing to a standoff bushing using a hotstick and Operating Test and Torque Tool (OTTQ6\_5).

The T-OP II Connector System uses a threaded coppertop (bi-metal) compression connector for a threaded connection. It also has an alignment segment and internal rotating nut feature in the loadbreak reducing tap plug which, along with the extended length stud, eliminates cross threading and ensures proper torque.

The T-OP II system provides the following features:

- Single person hotstick operable
- Mechanical assist
- Copper alloy current path and copper-top connector
- 900 A continuous current rating
- Visible ground and visible break
- 200 A Interface for:
  - addition of our M.O.V.E Arresters for overvoltage protection
  - addition of our Grounding Elbows
  - access for direct conductor phasing and testing
  - hipot testing of switch or cables

Refer to Figure 3 for T-OP II Connector Kit Components.

### Installation of T-OP II on a 600/900 A Bushing

The T-OP II Connector is installed on an apparatus bushing using a T-Wrench and a 600 A Torque Tool.

#### T-OP II Specification Information

To specify a 900 A T-OP II System, include in your specification:

- The system must fully comply with IEEE Std 386™ standard.
- Must include an all copper alloy current path and copper-top connector.
- System must include disconnecting back-off feature.
- The connector system must provide operation with live line tools, direct conductor phasing and testing, visible ground and visible break.
- It must provide a location to add overvoltage arresters and access for direct conductor phasing or hipot testing of switch or cables.
- Must be one-person hotstick operable and easy to install with proper torque such that concern for cross threading is eliminated.
- Loadbreak reducing tap plug must include extended length stud, internal rotating nut and an alignment segment feature to eliminate cross threading of this compression connector and ensure proper torque.
- Loadbreak reducing tap plug must include latch indicator ring.
- T-OP II Connector System base part number TP615 for 15 kV, TP625 for 25 kV and TP635 for 35 kV.

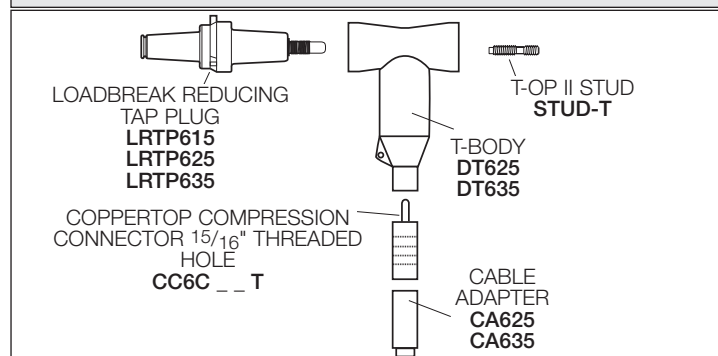


Figure 3. T-OP II Connector Kit (TP6\_5) Components. For more details, see catalog sections 600-12, 600-32 and 600-52.

## U-OP Connector System

The U-OP Connector System is used to provide a visible break and visible ground on 600 A distribution systems without having to move the heavy cable. The U-OP Connector is a deadbreak system rated for operation on 15 or 25 kV class equipment, including transformers, switches, switchgear, and other apparatus.

Under normal operating conditions, the current path is through the apparatus bushing, through the U-connector, through a two-way 600 A deadbreak junction, and through a T-OP II 600 A Connector (sold separately) to the underground cable. When isolating underground cable, a grounded standoff bushing can be put in the parking stand (with the system de-energized). The U-connector can then be removed, rotated 90°, and re-installed over the apparatus bushing and grounded standoff bushing, to ground the apparatus bushing.

A grounding elbow can be installed on the 200 A interface of the T-OP II Connector to ground the cable. A 600 A U-OP Protective Cap can then be put on the upper bushing of the deadbreak junction to insulate that bushing. Since all bushings of the connector system are then insulated or grounded, and if the cable is grounded on the other end, it is safe to perform work on the underground cable. See Figure 4 for a typical U-OP Connector configuration.

#### U-OP Specification Information

To specify a 600 A U-OP Connector System that achieves a visible break and visible ground without having to move heavy cable, include in your specification:

- The system must fully comply with IEEE Std 386™ standard.
- The system must provide a visible break and visible ground without having to move 600 A cable.
- A U-connection shall remain connected on the equipment even while performing repair to the underground cable to ensure the interfaces are not exposed to the environment and thus potentially contaminated.
- U-OP Connector System base part number UOP625 for both 15 and 25 kV.

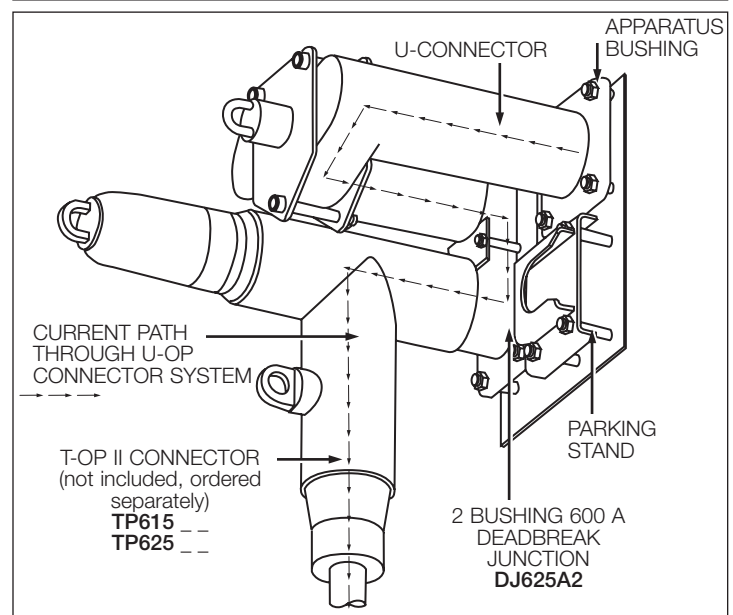
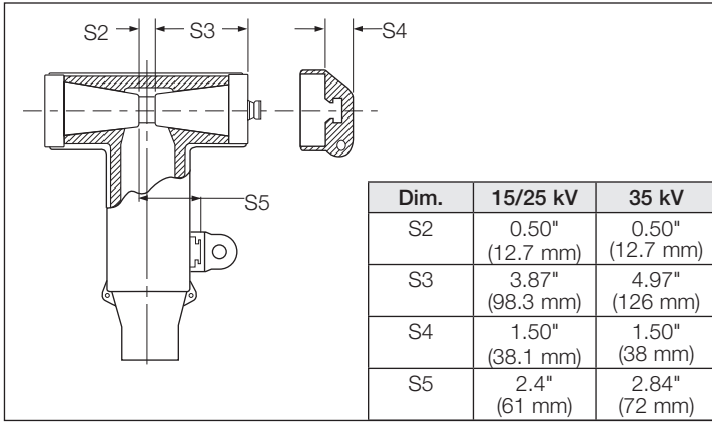
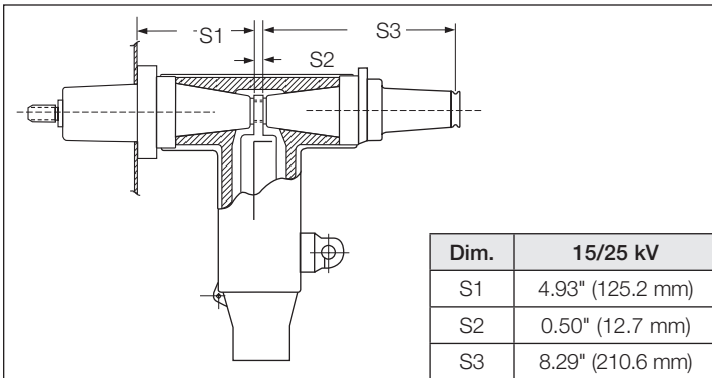


Figure 4. U-OP Connector Kit (UOP625) Components. For more details, see catalog section 600-34.

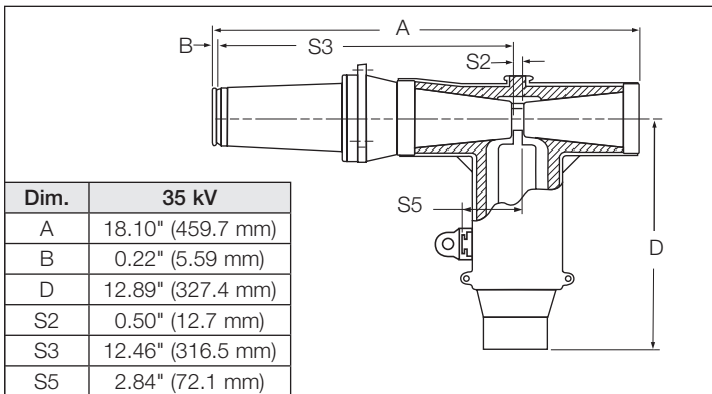
# 600 A Stacking Dimensions



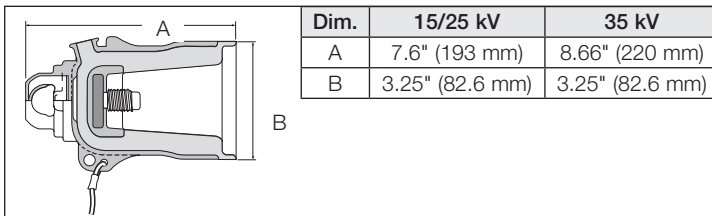
**BOL-T Deadbreak Connector**



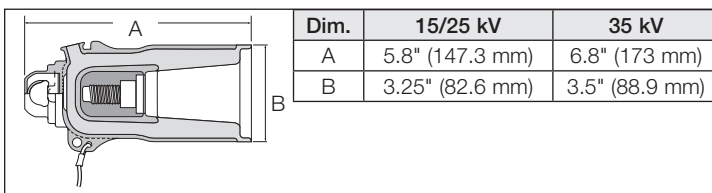
**BT-TAP and T-OP II Deadbreak Connector 15 kV and 25 kV**



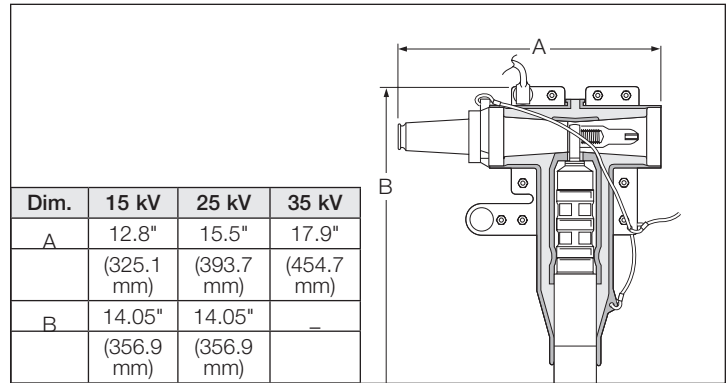
**BT-TAP and T-OP II Deadbreak Connector 35 kV**



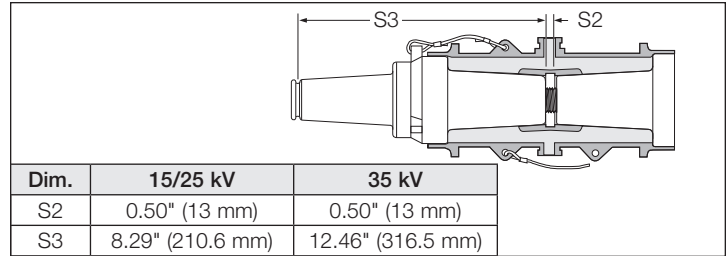
**Standard Protective Cap**



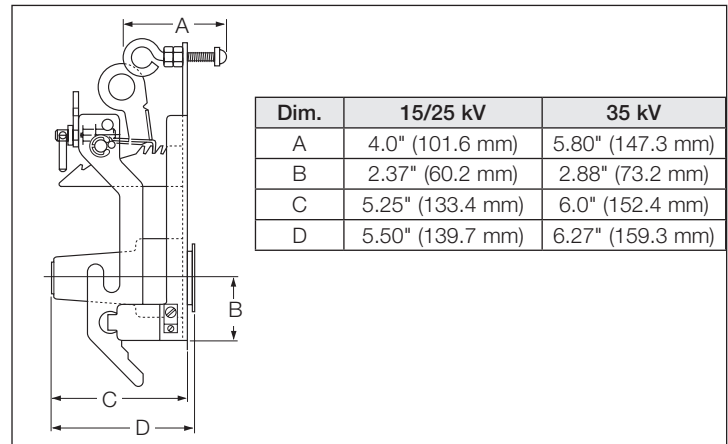
**Protective Cap for T-OP II and U-OP (15/25 kV shown)**



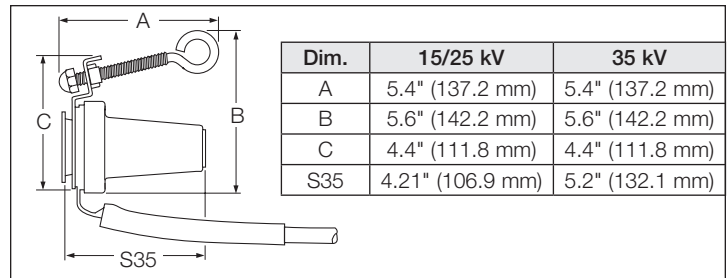
**PUSH-OP Deadbreak Connector (15 kV shown)**



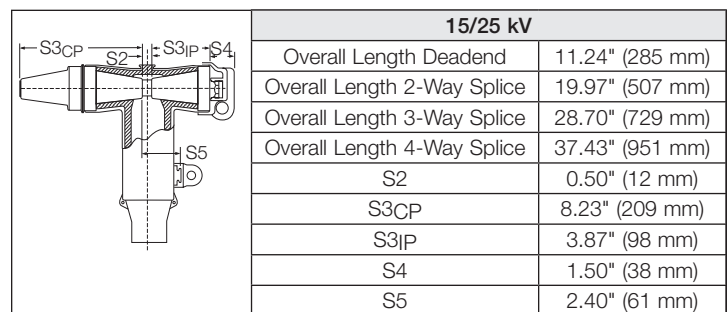
**Bushing Adapter with LRTP (15 kV shown)**



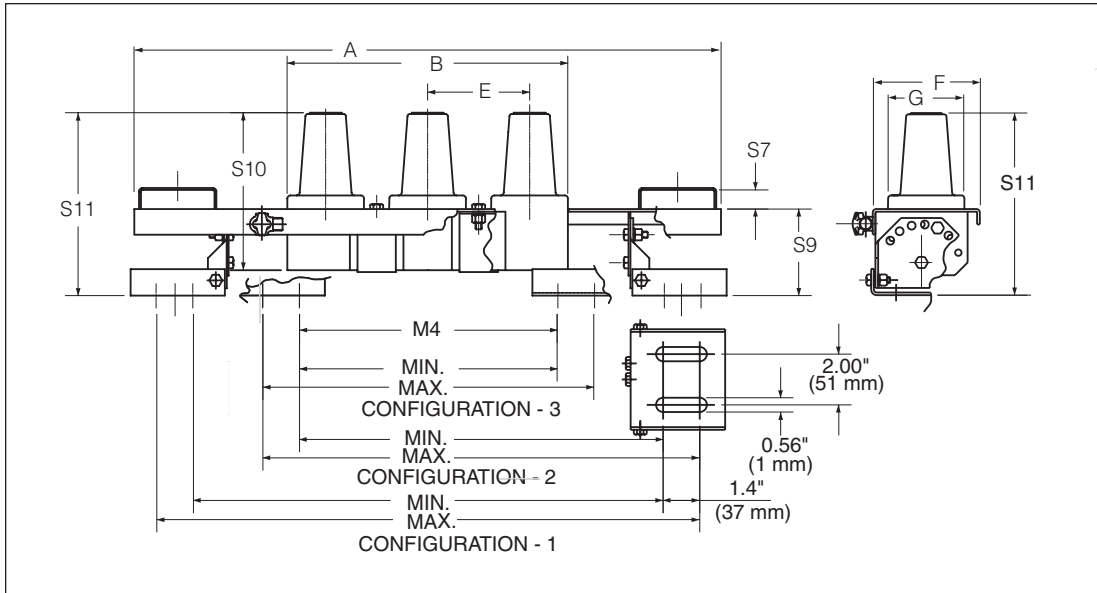
**PUSH-OP Standoff Bushing (15/25 kV shown)**



**Standoff Bushing**



**Separable Splice**



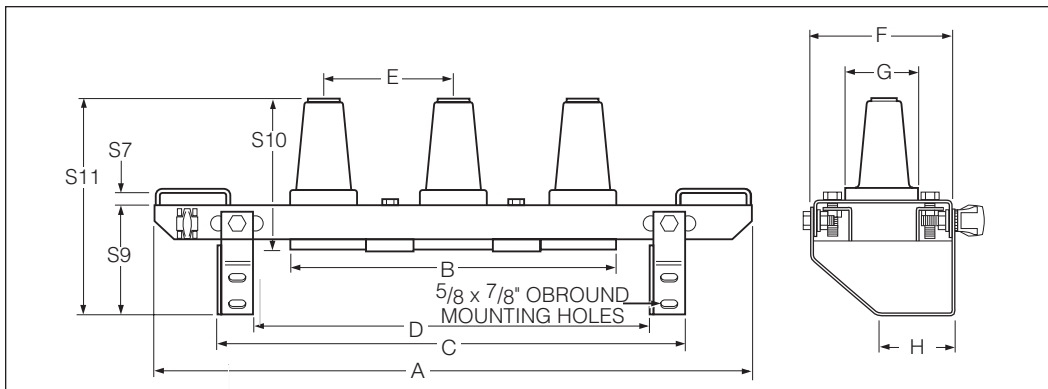
Deadbreak Junction (15/25 kV shown)

Dim.	15/25 kV
E	4.0" (101 mm)
F	4.1" (102 mm)
G	3.0" (76 mm)
S7	0.75" (19 mm)
S9	3.4" (86 mm)
S10	6.2" (157 mm)
S11	7.2" (182 mm)

TABLE 15/25 kV

Number of Interfaces	Physical Dimensions in./(mm)		M4 Mounting Dimensions in./(mm)					
			Configuration 1		Configuration 2		Configuration 3	
			Min.	Max.	Min.	Max.	Min.	Max.
2	19.0" (483 mm)	7.0" (178 mm)	14.1" (358 mm)	16.9" (429 mm)	9.7" (248 mm)	12.5" (318 mm)	5.6" (142 mm)	8.4" (213 mm)
3	23.0" (584 mm)	11.0" (279 mm)	18.6" (472 mm)	21.4" (544 mm)	14.2" (361 mm)	17.0" (432 mm)	10.1" (257 mm)	12.9" (328 mm)
4	27.1" (686 mm)	15.0" (381 mm)	24.1" (612 mm)	26.9" (686 mm)	19.7" (500 mm)	22.5" (572 mm)	15.6" (396 mm)	18.4" (467 mm)

Configuration 1. Both feet turned out.  
 Configuration 2. One foot turned out, the other in.  
 Configuration 3. Both feet turned in.



Deadbreak Junction (35 kV shown)

Dim.	35 kV
E	6.0" (152 mm)
F	6.2" (158 mm)
G	3.0" (76 mm)
H	3.8" (96 mm)
S7	0.75" (19 mm)
S9	5.55" (141 mm)
S10	7.0" (178 mm)
S11	10.4" (264 mm)

TABLE 35 kV

Number of Interfaces	Physical Dimensions in. (mm)		Mounting Dimensions in. (mm)	
	A	B	C	D
2	21.5" (546 mm)	9.0" (229 mm)	15.5" (394 mm)	12.5" (318 mm)
3	27.5" (699 mm)	15.0" (381 mm)	21.5" (546 mm)	18.5" (470 mm)
4	33.5" (851 mm)	21.0" (533 mm)	27.5" (699 mm)	24.5" (622 mm)

Note: C and D are minimum and maximum stud centerline separations for mounting.

# Junction Bars/Cable Transition & Oil Stop Modules

Cooper Power Systems Junction Bars are designed for vault or apparatus applications and can be used for looping, tapping, and sectionalizing.

Cable Transition Modules (CTMs) and Oil Stop Modules (OSMs) are designed for splicing paper insulated lead cable (PILC) into solid dielectric cable.

Junction bars and cable transition modules are fully shielded, submersible, resistant to harsh materials, and are designed and manufactured in accordance with IEEE Std 386™ standard - "Separable Insulated connector Systems".

Junction bars and cable transition and oil stop modules are manufactured in 200 A, 600 A or 900 A configurations. The 200 A designs incorporate a universal bushing well design making it possible to use either a 200 A loadbreak or deadbreak bushing well insert.



## Junction Bar Catalog Numbering Key

- "JBI" = Junction Bar, In-Line
- "JBL" = Junction Bar, "L" Splice
- "JBY" = Junction Bar, "Y" Splice
- "JBS" = Junction Bar, Stacked
- "25" = 15/25 kV Rating
- "35" = 35 kV Rating\*\*\*
- "335" = Three-Phase, 35 kV Rating
- "U" = With U-Straps
- "PS" = Bracket with (2) Parking Stands
- "W" = 200 A Well
- "B" = 600 A Bushing
- "S" = 600 A Straight Interface Bushing
- "C" = Copper




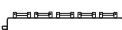



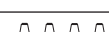

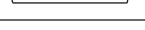













## Available Mounting Provisions

Junction Type	S.S. Mtg. Bracket 0-60° Mtg. Angles	Non-Adjustable S.S. Flush Mtg. Bracket	S.S. U-Straps*	S.S. Mtg. Bracket with (2) Parking Stands**
In-Line Junction Bar	Std.		Yes	Yes
Stacked Junction Bar		Std.	No	Yes
"L" Splice	Std.		Yes	Yes
"Y" Splice		Std.	No	No

\* For U-straps add suffix U on the end of the standard catalog number.

\*\* For Parking Stand Bracket add suffix PS on the end of the standard catalog number.

# 15/25 and 35 kV In-Line Junction Bars with Stainless Steel Bracket













Catalog Section	Description	kV Class	Base Part Number	Notes
650-10				
	2 Point 200 A	15/25 kV 35 kV	<b>JB125C2W</b> <b>JB135C2W</b>	1,2
	3 Point 200 A	15/25kV 35 kV	<b>JB125C3W</b> <b>JB135C3W</b>	1,2
	4 Point 200 A	15/25kV 35 kV	<b>JB125C4W</b> <b>JB135C4W</b>	1,2
	5 Point 200 A	15/25kV 35 kV	<b>JB125C5W</b> <b>JB135C5W</b>	1,2
	6 Point 200 A	15/25kV 35 kV	<b>JB125C6W</b> <b>JB135C6W</b>	1,2
	2 Point 600/900 A*	15/25kV 35 kV	<b>JB125C2B</b> <b>JB135C2B</b>	1,2
	3 Point 600/900 A*	15/25kV 35 kV	<b>JB125C3B</b> <b>JB135C3B</b>	1,2
	4 Point 600/900 A*	15/25kV 35 kV	<b>JB125C4B</b> <b>JB135C4B</b>	1,2
	5 Point 600/900 A*	15/25kV 35 kV	<b>JB125C5B</b> <b>JB135C5B</b>	1,2
	6 Point 600/900 A*	15/25kV 35 kV	<b>JB125C6B</b> <b>JB135C6B</b>	1,2
	3 Point 1 x 200 A 2 x 600 A	15/25kV 35 kV	<b>JB125C1W2B</b> <b>JB135C1W2B</b>	1,2
	3 Point 1 x 600 A 1 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C1B1W1B</b> <b>JB135C1B1W1B</b>	1,2
	3 Point 2 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C2W1B</b> <b>JB135C2W1B</b>	1,2
	4 Point 1 x 200 A 3 x 600 A	15/25kV 35 kV	<b>JB125C1W3B</b> <b>JB135C1W3B</b>	1,2
	4 Point 2 x 200 A 2 x 600 A	15/25kV 35 kV	<b>JB125C2W2B</b> <b>JB135C2W2B</b>	1,2
	4 Point 3 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C3W1B</b> <b>JB135C3W1B</b>	1,2
	4 Point 1 x 600 A 2 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C1B2W1B</b> <b>JB135C1B2W1B</b>	1,2
	5 Point 1 x 200 A 4 x 600 A	15/25kV 35 kV	<b>JB125C1W4B</b> <b>JB135C1W4B</b>	1,2
	5 Point 2 x 200 A 3 x 600 A	15/25kV 35 kV	<b>JB125C2W3B</b> <b>JB135C2W3B</b>	1,2
	5 Point 4 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C4W1B</b> <b>JB135C4W1B</b>	1,2
	5 Point 1 x 600 A 3 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C1B3W1B</b> <b>JB135C1B3W1B</b>	1,2
	6 Point 3 x 200 A 3 x 600 A	15/25kV 35 kV	<b>JB125C3W3B</b> <b>JB135C3W3B</b>	1,2
	6 Point 1 x 600 A 4 x 200 A 1 x 600 A	15/25kV 35 kV	<b>JB125C1B4W1B</b> <b>JB135C1B4W1B</b>	1,2

1. For U-Straps, add "U" on end of catalog number.
2. For (2) parking stand brackets add "PS" to end of catalog number.

\* A 900 A rating can be achieved when mated with comparably rated separable connectors.

# 15/25 kV and 35 kV L-SplICES and Y-SplICES with Stainless Steel Brackets

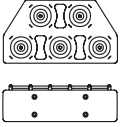
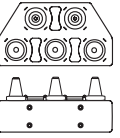
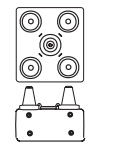
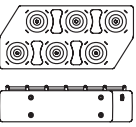
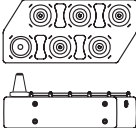
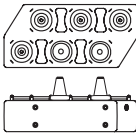
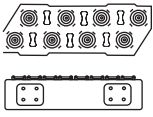
1. for U-Straps, add "U" on end of catalog number.
2. For (2) parking stand brackets add "PS" to end of catalog number.

Catalog Section	Description	kV Class	Base Part Number	Notes
650-10	<b>L-SPLICES 15/25 AND 35 kV WITH STAINLESS STEEL BRACKETS</b>			
 	3 Point Single-Phase 2 x 200 A 1 x 200 A	15/25 kV 35 kV	<b>JBL25C2W1W</b> <b>JBL35C2W1W</b>	1, 2
 	6 Point Single-Phase 4 x 200 A 2 x 600 A	15/25 kV 35 kV	<b>JBL25C4W2B</b> <b>JBL35C4W2B</b>	1, 2
650-10	<b>Y SPLICES, THREE-PHASE 15/25 kV WITH STAINLESS STEEL BRACKETS</b>			
 	9 Point Three-Phase 3 x 200 A Per Phase	15/25 kV 35 kV	<b>JBY325C3W</b> <b>JBY335C3W</b>	
  	9 Point Three-Phase 2 x 600 A 1 x 200 A Per Phase	15/25 kV 35 kV	<b>JBY325C1W2B</b> <b>JBY335C1W2B</b>	
  	12 Point Three-Phase 3 x 600 A 1 x 200 A Per Phase	15/25 kV 35 kV	<b>JBY325C1W3B</b> <b>JBY335C1W3B</b>	



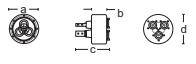
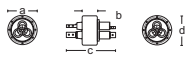
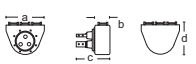
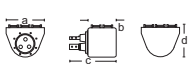
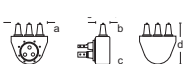
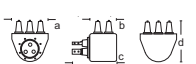
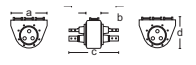
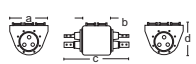
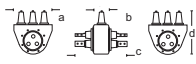
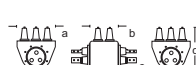
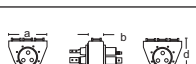



# 15/25 & 35 kV Stacked Junction Bars with Stainless Steel Brackets

1. For (2) parking stand brackets add "PS" to end of catalog number.


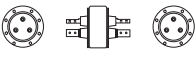
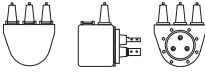
Catalog Section	Description	kV Class	Base Part Number	Notes
650-10				
	5 Point 5 x 200 A	15/25 kV 35 kV	JBS25C2W3W JBS35C2W3W	1
	5 Point 2 x 200 A 3 x 600 A	15/25 kV 35 kV	JBS25C2W3B JBS35C2W3B	1
	5 Point 2 x 600 A 1 x 200 A 2 x 600 A	15/25 kV 35 kV	JBS25C2B1W2B JBS35C2B1W2B	1
	6 Point 6 x 200 A	15/25 kV 35 kV	JBS25C3W3W JBS35C3W3W	1
	6 Point 3 x 200 A 1 x 600 A 2 x 200 A	15/25 kV 35 kV	JBS25C3W1B2W JBS35C3W1B2W	1
	6 Point 3 x 200 A 1 x 200 A 2 x 600 A	15/25 kV 35 kV	JBS25C3W1W2B JBS35C3W1W2B	1
	8 Point 8 x 200 A	15/25 kV 35 kV	JBS25C4W4W JBS35C4W4W	1

# 15 and 25 kV Cable Transition Modules

1. Cable Lug Size required at time of order.

Catalog Section	Description	kV Class	Base Part Number	Notes
650-20	<b>STRAIGHT THROUGH</b>			
	3 Point 200 A	15 kV and 25 kV	<b>CTM005A</b>	1
	3 Point 600 A	15 kV and 25 kV	<b>CTM012A</b>	1
650-20	<b>TAP</b>			
	3 Point 200 A	15 kV and 25 kV	<b>CTM015A</b>	1
	6 Point 200 A	15 kV and 25 kV	<b>CTM025A</b>	1
	3 Point 600 A	15 kV and 25 kV	<b>CTM011A</b>	1
	6 Point 600 A	15 kV and 25 kV	<b>CTM020A</b>	1
650-20	<b>STRAIGHT THROUGH AND TAP</b>			
	3 Point 200 A	15 kV and 25 kV	<b>CTM010A</b>	1
	6 Point 200 A	15 kV and 25 kV	<b>CTM024A</b>	1
	3 Point 600 A	15 kV and 25 kV	<b>CTM009A</b>	1
	6 Point 600 A	15 kV and 25 kV	<b>CTM019A</b>	1
	3 Point 200 A	15 kV and 25 kV	<b>CTM029A</b>	1
	3 Point 600 A	15 kV and 25 kV	<b>CTM030A</b>	1
650-20	<b>ACCESSORIES</b>			
	Wiping Sleeve	15 kV and 25 kV	<b>WS1112</b> <b>WS1118</b>	
	Wiping Flange	15 kV and 25 kV	<b>WS12</b>	

# 15 and 25 kV Cable Transition & Oil Stop Modules

Catalog Section	Description	kV Class	Base Part Number	Notes
650-20	<b>MOUNTING BRACKET</b>			
	Saddle	15 kV and 25 kV	<b>BRK469</b>	
650-20	<b>OIL STOP MODULES</b>			
	Three-Phase 600 A PILC to PILC Splice	15 kV and 25 kV	<b>OSM004</b>	1
	Tap Transition, Paper Insulated Lead Cable (PILC) Run to 3 Point 200 A and 3 Point 600 A Tap	15 kV and 25 kV	<b>CTM035A</b>	1

1. Cable Lug Size required at time of order.

# Splices

We offer various types of splices for your underground needs on 200 A and 600 A systems. The EZ II One-Piece Splices at 15, 25, and 35 kV include advantages for typical applications of repair, replacement, or extension of high voltage underground cables. These all peroxide-cured EPDM rubber splices provide a highly reliable, permanent, fully shielded, and submersible cable joint with a current rating equal to that of the mating cable. EZ II Splices can be installed in conduit, direct buried or in vault applications. The EZ II Splice line meets or exceeds all requirements of IEEE Std 404™ standard.

We offer a full line of 600/900 A Separable Splice kits for application on feeder circuits. These use standard BOL-T type components along with a peroxide-cured EPDM rubber connecting plug that allows for installation of multiple way splices. Separable splices are used to splice multiple cables or to deadend a single cable. The splices are rated for 600 A (900 A ratings are available) and are suitable for the repair or extension of underground feeders. Separable splice kits meet or exceed the requirements of IEEE Std 386™ standard.

## EZ II Splices

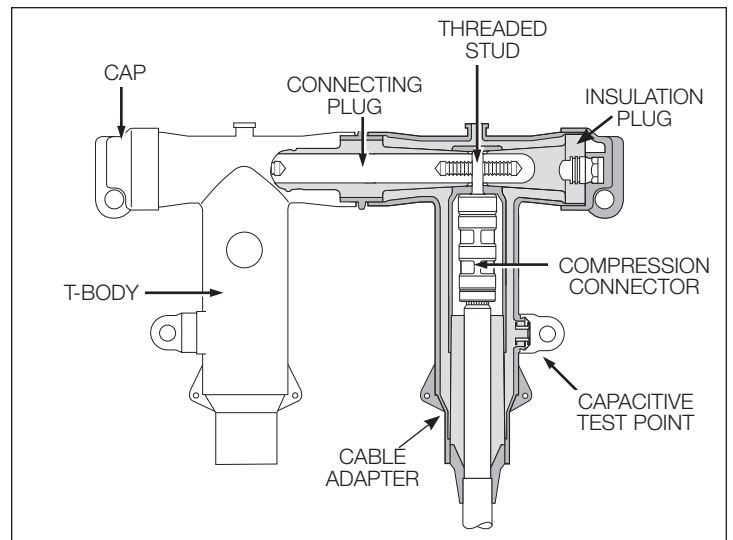
The EZ II One-Piece Splices offer a number of features and benefits, including:

**Easiest to Install** – The design features of the EZ II Splice including the tapered cable entrance, smooth bore, relieved conductive insert, and reformulated rubber provide for easier field installation. EZ II Splices have been shown to be 30% easier to install than other manufacturers' splices.

**Wide Range Taking** – The wide range taking cable entrances are sized to accept all common cable insulation diameters. The wider cable ranges increase installation flexibility.

**Sure Grip** – The contoured EZ II Splice body provides an easy gripping location during installation.

**Long Term Reliability** – The EZ II Splice has successfully passed all requirements of the IEEE Std 404™ standard and our exclusive field-proven multi-stress test to show the long term reliability of the design.

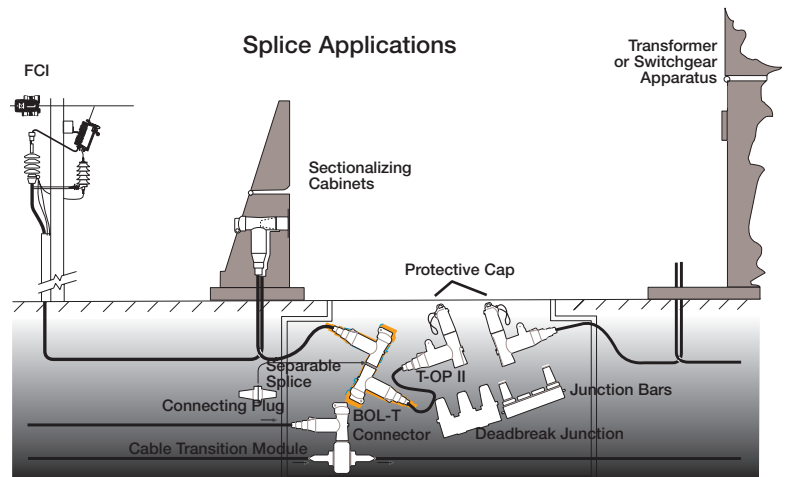


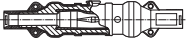
Typical components of a 600 A 2-way separable splice.

### EZ II Splice Specification Information

To ensure you have the most reliable, economical, installation friendly premolded one-piece splice available, your specification for EZ II Splice should include:

- Manufactured in full compliance with all applicable IEEE Std 404™ standard.
- Manufactured from peroxide-cured EPDM rubber.
- Tapered ribs of the inside diameter of the conductive insert.
- Molded in compression connector diameters.
- Conductive insert ends encapsulated with insulating rubber.



Catalog Section	Description	kV Class	Base Part Number	Notes
	EZ II Splice	15 kV	<b>SP15 CR6 CC5</b> (see CR6 & CC5 Tables Below)	1, 2, 3, 4
		25 kV	<b>SP25 CR6 CC5</b> (see CR6 & CC5 Tables Below)	1, 2, 3, 4
		35 kV	<b>SP35 CR6 CC5</b> (see CR6 & CC5 Tables Below)	1, 2, 3, 4

700-15

**Use for Base Number** (both tables)  
**SP15 SP25 SP35**

**TABLE CR6**  
Cable Diameter (Insulation) Range

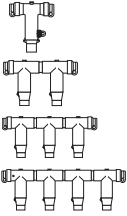
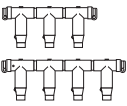
Cable Diameter Range		CABLE RANGE CODE	Voltage Class
Inches	Millimeters		
0.640-0.910	16.3-23.1	A	15 kV
0.750-1.010	19.1-25.7	B	15 & 25 kV
0.890-1.140	22.6-29.0	C	
0.840-1.110	21.3-28.2	D	15, 25 & 35 kV
1.000-1.310	25.4-33.3	E	
1.140-1.450	29.0-36.8	F	

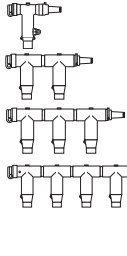
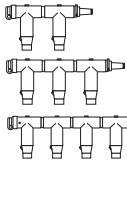
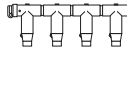
**TABLE CC5**  
Conductor Size and Type

Stranded or Compressed		Compact or Solid		CONDUCTOR CODE
AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	
#3	25	#2	35	001
#2	35	#1	-	002
#1	-	1/0	50	003
1/0	50	2/0	70	004
2/0	70	3/0	-	005
3/0	-	4/0	95	006
4/0	95	250	120	007
250*	120	-	-	008




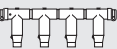




\* Compressed stranding only

- For an **all copper connector**, change digit six from a "0" to a "C".
- For a **splice with a single-piece** re jacketing kit, insert a "S" or a **2-piece** re jacketing kit, insert a "D" as the ninth character in the part number.
- For **individually packaged** product in a corrugated cardboard box, insert an "X" as the last character in the part number.
- To splice different sized cables, refer to transition splice information in catalog section 700-15.
- For **900 A rating** (copper components) replace the "A" with a "C".
- For T-bodies with **test points**, insert a "T" directly after the base part number.
- Studs are bagged and loose in kit. To have **studs permanently installed** at the factory, add a "P" after the test point designation (if applicable) or after the base part number.
- Installation requires a standard 5/16" hex key (HD625).
- To include **200 A loadbreak protective cap**, add a "C" as the last character in the part number.

	600 A Separable Splices (Kits Do Not Include Cable Adapters or Compression Connector. Refer to 600 A Replacement Parts Page 21)	15/25 kV Deadend Kit	<b>SSPL625A1</b>	5, 6, 7, 8
		2-way Splice Kit	<b>SSPL625A2</b>	5, 6, 7, 8
		3-way Splice Kit	<b>SSPL625A3</b>	5, 6, 7, 8
		4-way Splice Kit	<b>SSPL625A4</b>	5, 6, 7, 8
	35 kV Deadend Kit	2-way Splice Kit	<b>SSPL635A2</b>	5, 6, 7, 8
		3-way Splice Kit	<b>SSPL635A3</b>	5, 6, 7, 8
		4-way Splice Kit	<b>SSPL635A4</b>	5, 6, 7, 8

	T-OP II 600 A Separable Splices with 200 A Tap (Kits Do Not Include Required Threaded and Unthreaded Compression Connectors or Cable Adapters. Refer to 600 A Replacement Parts Page 21)	15 kV T-OP II Deadend Kit	<b>SSPLT615A1</b>	5, 6, 7, 8, 9
		T-OP II 2-way Splice Kit	<b>SSPLT615A2</b>	5, 6, 7, 8, 9
		T-OP II 3-way Splice Kit	<b>SSPLT615A3</b>	5, 6, 7, 8, 9
		T-OP II 4-way Splice Kit	<b>SSPLT615A4</b>	5, 6, 7, 8, 9
	25 kV T-OP II Deadend Kit	T-OP II 2-way Splice Kit	<b>SSPLT625A2</b>	5, 6, 7, 8, 9
		T-OP II 3-way Splice Kit	<b>SSPLT625A3</b>	5, 6, 7, 8, 9
		T-OP II 4-way Splice Kit	<b>SSPLT625A4</b>	5, 6, 7, 8, 9
		35 kV T-OP II Deadend Kit	<b>SSPLT635A1</b>	5, 6, 7, 8, 9
	35 kV T-OP II 2-way Splice Kit	T-OP II 3-way Splice Kit	<b>SSPLT635A3</b>	5, 6, 7, 8, 9
		T-OP II 4-way Splice Kit	<b>SSPLT635A4</b>	5, 6, 7, 8, 9

**TABLE 4**  
Separable Splice Kits

Assembly	Splice Kit Contents					Order Separately (Refer to pg 21)		
	T-Body	Insulating Plug w/Cap	Insulating Plug w/Cap and Stud	Connecting Plug w/Stud	Loadbreak Reducing Tap Plug (Includes STUD-T)	Cable Adapter	Unthreaded Compression Connector	Threaded Coppertop Connector
 Deadend	1	1	1	-	-	1	1	-
 2-Way Splice	2	1	1	1	-	2	2	-
 3-Way Splice	3	1	1	2	-	3	3	-
 4-Way Splice	4	1	1	3	-	4	4	-
 T-OP II Deadend	1	1	-	-	1	1	-	1
 T-OP II 2-Way Splice	2	1	-	1	1	2	1	1
 T-OP II 3-Way Splice	3	1	-	2	1	3	2	1
 T-OP II 4-Way Splice	4	1	-	3	1	4	3	1

# Underground Surge Arresters

Our Metal Oxide Varistor Elbow (M.O.V.E.) and Parking Stand Arresters are used in pad-mounted transformer and entry cabinets, vaults, switching enclosures and other installations to provide shielded deadfront arrester protection. These arresters are designed for use with 200 A loadbreak interfaces to limit overvoltages to acceptable levels, protect equipment and extend cable life.

## POSI-BREAK M.O.V.E. Elbow Arrester

The POSI-BREAK M.O.V.E. Arrester provides the same safety benefits of the POSI-BREAK connector system with over-voltage protection. Cooper Power Systems is the only manufacturer to offer a solution to the partial vacuum flashover in elbow arresters.

The POSI-BREAK M.O.V.E. Arrester is available for 9-21 kV for 25 kV class interfaces.

## M.O.V.E. DirectConnect Elbow Arrester

M.O.V.E. DirectConnect Elbow Arresters are used on underground systems in pad-mounted transformer and entry cabinets, vaults, switching enclosures and other installations to provide shielded deadfront arrester protection. They are designed for use with 600 A, 35 kV Class deadbreak interfaces that conform to IEEE Std 386™ standard to limit overvoltages to acceptable levels, protect equipment and extend cable life.



### M.O.V.E. DirectConnect Elbow Arrester Specification Information

#### Design Tests

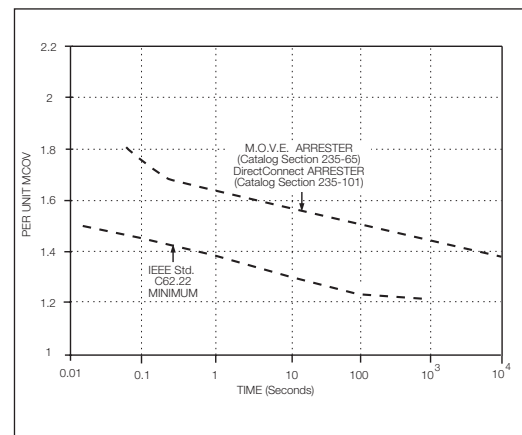
- IEEE Std 386™-2006 standard, Separable Insulated Connector Systems
- IEEE Std C62.11 standard, Metal Oxide Surge Arresters for AC Power Circuits



DirectConnect Elbow Arrester.

**TABLE 1**  
Commonly Applied Voltage Ratings of M.O.V.E. and Parking Stand Arresters

System Voltage (V rms)		Commonly Applied Arrester Duty-cycle (MCOV) Voltage Rating (kV rms) on Distribution Systems		
Nominal Voltage	Maximum Voltage	4-Wire Multigrounded Neutral Wye	3-Wire Low Impedance Grounded	Delta and 3-Wire High Impedance Grounded
2400	2540	–	–	3 (2.55)
4160 Y/2400	4400 Y/2540	3 (2.55)	6 (5.1)	6 (5.1)
4260	4400	–	–	6 (5.1)
4800	5080	–	–	6 (5.1)
6900	7260	–	–	9 (7.65)
8320 Y/4800	8800 Y/5080	6 (5.1)	9 (7.65)	–
12000 Y/6930	12700 Y/7330	9 (7.65)	12 (10.2)	–
12470 Y/7200	13200 Y/7620	9 (7.65) or 10 (8.4)	15 (12.7)	–
13200 Y/7620	13970 Y/8070	10 (8.4)	15 (12.7)	–
13800 Y/7970	14520 Y/8388	10 (8.4) and 12 (10.2)	15 (12.7)	–
13800	14520	–	–	18 (15.3)
20780 Y/12000	22000 Y/12700	15 (12.7)	21 (17.0)	–
22860 Y/12000	22000 Y/12700	15 (12.7)	21 (17.0)	–
24940 Y/14400	26400 Y/15240	18 (15.3)	27 (22.0)	–
27600 Y/15935	29255 Y/16890	21 (17.0)	–	–
34500 Y/19920	36510 Y/21080	27 (22.0) or 30 (24.4)	–	–
46000 Y/26600	48300 Y/28000	36 (29.0)	–	–

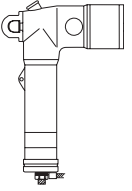
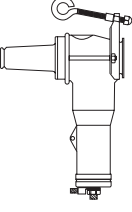
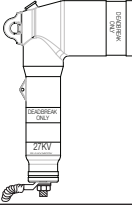


Temporary overvoltage curve. No prior duty at 85° C ambient.

The following notes apply to all part numbers on this page.

■ Digits 9 & 10 designate duty cycle voltage rating. For other protective characteristics, refer to Table 2 for M.O.V.E. and Parking Stand Arresters and Table 3 for DirectConnect Elbow Arresters.

■ Refer to page 17 for dimensional information or referenced catalog section.

Catalog Section	Description	kV Class	Base Part Number	MCOV (kV)		
	Metal Oxide Elbow (M.O.V.E.) Arrester	15 kV	3238018C03M	2.55		
			3238018C06M	5.1		
			3238018C09M	7.65		
			3238018C10M	8.4		
			3238018C12M	10.2		
			3238018C15M	12.7		
		25 kV	3238018C18M	15.3		
			3238019C09M	7.65		
			3238019C10M	8.4		
			3238019C12M	10.2		
			3238019C15M	12.7		
			3238019C18M	15.3		
		25 kV POSI-BREAK Elbow Arrester	PLEA225N03	2.55		
			PLEA225N06	5.1		
			PLEA225N09	7.65		
			PLEA225N10	8.4		
			PLEA225N12	10.2		
			PLEA225N15	12.7		
		35 kV (Interface 1A Large Interface per IEEE Std 386™ standard)	PLEA225N18	15.3		
			PLEA225N21	17.0		
3238020C18M	15.3					
3238020C21M	17.0					
3238020C24M	19.5					
3238020C27M	22.0					
235-65			3238020C30M	24.4		
			3238020C33M	27		
			3238020C36M	29		
	Metal Oxide (MOV) Parking Stand Arrester	15 kV	3237686C03M	2.55		
			3237686C06M	5.1		
			3237686C09M	7.65		
			3237686C10M	8.4		
			3237686C12M	10.2		
			3237686C15M	12.7		
		25 kV	3237686C18M	15.3		
			3237758C09M	7.65		
			3237758C10M	8.4		
			3237758C12M	10.2		
			3237758C15M	12.7		
			3237758C18M	15.3		
		235-68			3237758C21M	17.0
	M.O.V.E. DirectConnect Elbow Arrester	35 kV	DCEA635M27	22.0		
			DCEA635M30	24.4		
			DCEA635M33	27.0		
			DCEA635M36	29.0		
235-101						

**TABLE 2**  
M.O.V.E. and Parking Stand Arrester Protective Characteristics

Duty Cycle Voltage Rating (kV)	MCOV (kV)	Equivalent Front-of-Wave (kV crest)*	Maximum Discharge Voltage (kV crest) 8/20 μs Current Wave				
			1.5 kA	3 kA	5 kA	10 kA	20 kA
3	2.55	11	9	9.7	10.7	11.4	13
6	5.1	22	18.0	19.4	20.8	22.7	26
9	7.65	31.7	26	28	30	32.8	37.4
10	8.4	33	27	29.1	31.2	34.1	38.9
12	10.2	41.5	33.9	36.6	39.2	42.9	48.9
15	12.7	51.8	42.4	45.7	49	53.6	61.1
18	15.3	62.2	50.9	54.9	58.8	64.3	73.4
21	17.0	66	54.0	58.2	62.4	68.2	77.9
24	19.5	77	63.0	67.9	72.8	79.6	90.8
27	22.0	87.2	71.4	76.9	82.4	90.1	103
30	24.4	97.1	79.5	85.7	91.8	100.0	115.0
33	27	108	87.8	95.1	102	112	127
36	29	116	95.3	103	110	120	137

\* Equivalent front-of-wave voltage is the expected discharge voltage of the arrester when tested with a 5 kA current surge cresting in 0.5 μs.

**TABLE 3**  
M.O.V.E. DirectConnect Elbow Arrester Electrical Ratings and Characteristics

Duty Cycle Voltage Rating (kV)	MCOV (kV)	Front-of-Wave Protective Level* (kV crest)	Maximum Discharge Voltage 8/20 μs Current Wave (kV crest)				
			1.5 kA	3 kA	5 kA	10 kA	20 kA
27	22.0	105.0	75.0	82.0	87.4	96.2	110.0
30	24.4	112.0	79.5	85.7	91.8	100.0	115.0
33	27	108	87.8	95.1	102	112	127
36	29	116	95.3	103	110	120	137

\* Equivalent front-of-wave voltage is the expected discharge voltage of the arrester when tested with a 5 kV current surge cresting in 0.5 μs.

# Tools & Maintenance

Cooper Power Systems, Kearney operation offers a wide variety of Hi-Line™ Tools and maintenance equipment including Insulated Sticks, Fit-On™ Tools, Tree Trimmers, Fuse Pullers, Support and Tension Products, Tool Bags and Tool Racks, Cover-up Equipment, Jumpering/Grounding Equipment, Compression Tools, Cutters and Accessories.

Kearney also offers a wide range of connectors. Products include:

- Aqua Seal™ and Airseal™ Insulating and Sealing Material
- Compression Squeezon™ Connectors, Tee-Taps, Stirrups, Terminals, Grounding Lugs, Spacers
- Secondary Terminal Connectors, and a wide variety of sleeves

O-Tool Dies	
Catalog Number	
30554CPS	B
26994	D
48410	J
40495CPS	K
26993	O
30611CPS	P
40493CPS	T
30084	737
30450	781
30124	840
36181CPS	3/16
30154	1/4
30043	5/16
30042	3/8
30041	1/2
26958	9/16
30914	19/32
26992CPS	5/8-1
40114	11/16
Non-Bow Dies	
100625CPS	500
100600CPS	510
100613	620
100601	635
100618	702
100602	747
100609	845
100606	980
EEI Dies	
100603-7	7A
100603-9	9A
100603-11	11A
Other Dies & Accessories	
30744	BU-C
49341	Orange
36559	Plum
Wire Cutter Die for 2/0 ACSR Max	
30500	Plum

WH3 & PH13 Dies	
Catalog Number	
36457	D
36459-3	N
36467*	O
36472	U
36474*	15/16
36476*	840
36478*	781
36480*	737
36482CPS*	635
36484*	5/8-1
36486*	19/32
36488*	9/16
36490CPS*	1/2
36494CPS*	3/8
36496*	5/16
36498*	1/4
36828CPS*	P
36830CPS	C
36832CPS*	B-K-T
36834CPS*	747
36836*	572
36838*	510
40063*	727
40151CPS*	11/16
40517	1 1/4 (Hex)
49435*	3/4 (Hex)
49437*	29/32 (Hex)
100370CPS	15/16 (Hex)
100399	1-2 (Hex)
100400	1 1/8-2 (Hex)
100433CPS	1 5/16 (Hex)
100434CPS	1 1/2 (Hex)
100455	9/16 Wide
100456	840 Wide





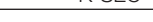


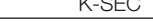


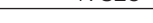


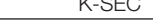


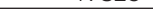
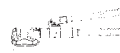




\* These dies may be used with adapter #100096 in PH3, PH4 and PH15 tools.

PH4 & PH15 Dies	
Catalog Number	
100472	D
100473	N
100474	U
100057	R
100470	1-2
100471	1-1/8-2
100440	1-5/16
100460	1-1/2
100459	1-5/8
100075	1-3/4
100096	Adapter
PH25 DIES	
100005	Die Holder
100006	3/8
100006-4	5/8-1
100006-6	11/16
100006-13	7/8
100006-14	15/16
100006-16	1- 1/8-1
100006-7	727
100006-8	737
100006-9	747
100006-12	840
100006-15	1.00 (Hex)
100006-18	D
100007-1	1 9/32 (Hex)
100007-2	1 5/16 (Hex)
100007-3	1 1/2 (Hex)
100007-4	1 5/8 (Hex)
100007-6	1 3/4 (Hex)
100007-9	2 1/8 (Hex)
100007-12	2 1/2 (Hex)
100007-13	N
100007-14	U
100007-23	R



Tool Bags and Cases for O-Tools			
For Tool Model	Description	Catalog Number	Net Wt. Each
O-60 Series	Steel Carrying Case	26962-5	9 lbs.
O-60 Series	Die Case	30642CPS	1 lb.



Catalog Section	Description	kV Class	Base Part Number	Notes
	<b>TYPE "OS" TOOLS</b>			
	 5/8 Fixed Die		OS50	
	 620 Fixed Die		OS-620	
K-SEC 131	Vinyl Holster		36692	
	<b>TYPE O-62 TOOLS 5/8" FIXED NOSE DIE</b>			
	 17" Straight Handles – Non-Insulated Head		O-62F	1, 4
	 21" Straight Handles – Non-Insulated Head		O-62-21F	2, 4
K-SEC 131	 17" Bent Handles – Non-Insulated Head		O-62-50F	3, 4
	<b>TYPE O-63 TOOLS WITH FIXED "O" NOSE DIE</b>			
	 17" Straight Handles – Non-Insulated Head		O-63F	4, 5
	 21" Straight Handles – Non-Insulated Head		O-63-21F	2, 4
K-SEC 131	 17" Bent Handles – Non-Insulated Head		O-63-50F	3, 4
	<b>TYPE O-620 TOOLS WITH FIXED 620 NOSE DIE</b>			
	 17" Straight Handles – Non-Insulated Head		O-620F	4, 7
	 21" Straight Handles – Non-Insulated Head		O-620-21F	2, 4
K-SEC 131	 17" Bent Handles – Non-Insulated Head		O-620-50F	3, 4
	<b>TYPE O-65 TOOLS WITH FIXED 5/8" AND "D" DIE</b>			
	 17" Straight Handles – Non-Insulated Head		O-65FB	8, 9
	 21" Straight Handles – Non-Insulated Head		O-65-21FB	2, 8
K-SEC 131	 17" Bent Handles – Non-Insulated Head		O-65-50FB	3, 8
	<b>TYPE O-68 TOOLS WITH FIXED "O" AND "D" DIE</b>			
	 17" Straight Handles – Non-Insulated Head		O-68FB	8, 10
	 21" Straight Handles – Non-Insulated Head		O-68-21FB	2, 8
K-SEC 131	 17" Bent Handles – Non-Insulated Head		O-68-50FB	3, 8
	<b>WH SERIES 12-TON COMPRESSION TOOLS</b>			
	 Type WH3 12 Ton Compression Tool 12" Handles w/Case		WH3	11, 12, 13
K-SEC 131				
	<b>PH13 SERIES 12-TON REMOTE HYDRAULIC TOOLS</b>			
	 12 Ton, 4,000 PSI Remote Hydraulic Tool w/Case – 13" length		PH13-4	11
K-SEC 131	 12 Ton, 10,000 PSI Remote Hydraulic Tool w/Case – 12" length		PH13-10	11
K-SEC 131	 RH15 Remote Head, 15 Ton, 10,000 PSI		RH15-10	14
	 PH25 Ton Power Operated Head 4,000 PSI w/Carrying Case		100017	
K-SEC 131				

1. For an **insulated head**, insert a "-3" between the "2" and the "F". Example: 0-62-3F.
2. For an **insulated head**, replace the "1" with a "2".
3. For an **insulated head**, replace the "50" with a "53".
4. To accept **MD-6 dies**, which includes "D" insert die, add a "B" as the last character in the part number.
5. For an **insulated head**, insert a "-3" between the "3" and the "F". Example: 0-63-3F.
6. Consult customer service for availability.
7. For an **insulated head**, insert a "-3" between the "0" and the "F". Example: 0-620-3F.
8. Accepts Burndy® Type "W" dies.
9. For an **insulated head**, insert a "-3" between the "5" and the "F". Example: 0-65-3FB.
10. For an **insulated head**, insert a "-3" between the "8" and the "F". Example: 0-68-3FB.
11. For **tool without case**, insert a "K" as the first character in the part number.
12. For tool with **18" handles**, add a "-18" at the end of the part number or for **24" handles**, add a "-24".
13. Case standard is 12" handles. For 18" or 24" handles, case is replaced with a vinyl bag.
14. To add a **complete set of die holder assemblies**, insert a "K" as the first character in the part number.

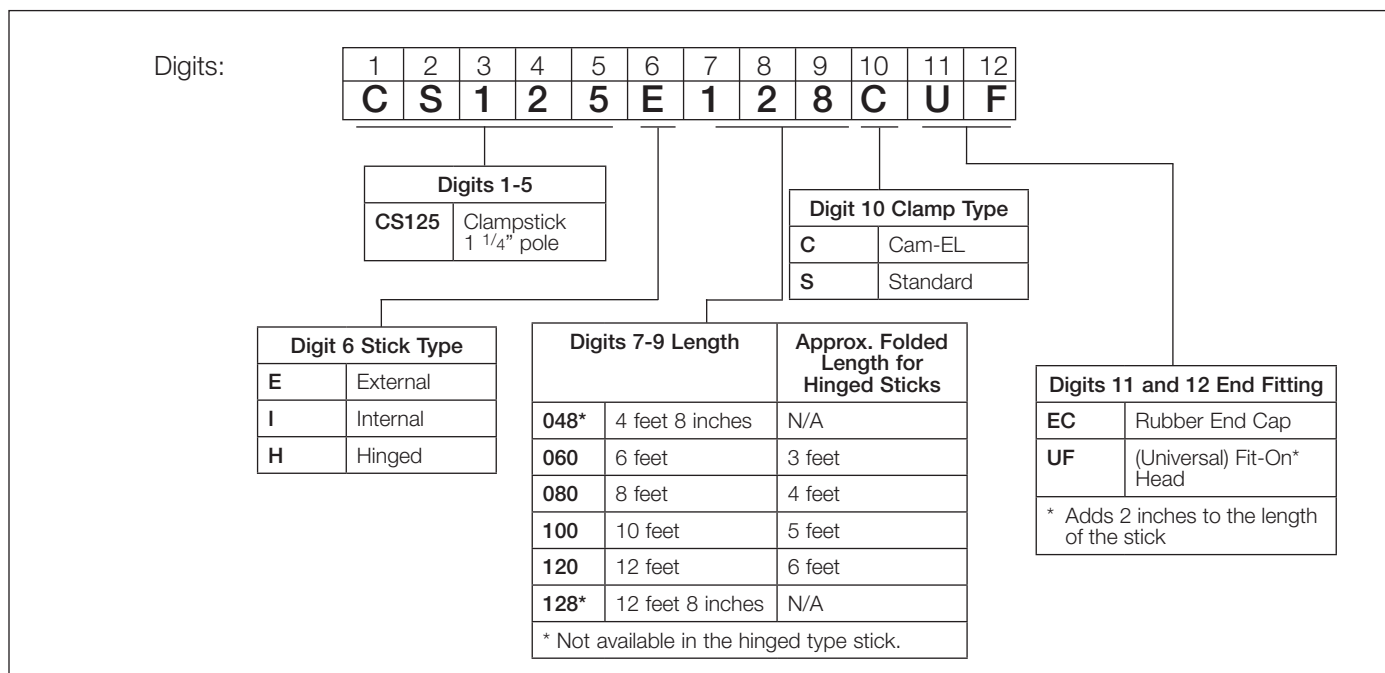
Catalog Section	Description	kV Class	Base Part Number	Notes
<b>Hand Operated Cutters</b>				
	General Purpose Center Cut		<b>0190FC</b> <b>0113C</b> (Cutter Head)	
	Heavy-Duty		<b>0290MCX</b> <b>0213CX</b> (Cutter Head)	
	Ratchet – Type Soft Cable		<b>8690FSK</b> <b>8613FSK</b> (Cutter Head)	
	Ratchet – Type Hard Cable		<b>8690FH</b> <b>8613FH</b> (Cutter Head)	
	Ratchet – Type Guy Strand		<b>8690CK</b> <b>8613CK</b> (Cutter Head)	
	Ratchet – Type Wire Rope		<b>8690TN</b> <b>8613TN</b> (Cutter Head)	
	ACSR Wire Rope and Cable		<b>0290FHJ</b>	
	Shear – Type Hand Operated		<b>0290FCS</b> <b>0213CSS</b> (Cutter Head)	
	Compact Electric Cable		<b>0890CSJ</b>	
K-SEC 131	Compact Ratcheting Cable		<b>6990FHL</b>	
<b>Ratchet Cable Cutters</b>				
K-SEC 131	Cable Cutting Tool		<b>CK500A</b> <b>CK750A</b>	9 10
	Clampstick		<b>See Table 1</b>	
	Clampstick, Cam-EL™		<b>See Table 1</b>	
	Clampstick, Hinged		<b>See Table 1</b>	
325-30	Clampstick Leverage Tool		<b>CS125UFLTOOL</b>	



18" Fit-On Leverage tool provides mechanical advantage during loadbreak switching.

**Note:** Use external rod clampsticks only.



Table 1 Clampstick Significant Digit Catalog Number System



Catalog Section	Description	kV Class	Base Part Number	Notes
<b>Temporary Grounding Sets</b>				
	Single-Phase Three-Clamp Set Pad-mounted		<b>133040</b> (1/0 Black Cable)	
	Three-Phase Four-Clamp Set Pad-mounted		<b>133040-1</b> (1/0 Black Cable) <b>133040-2</b> (2/0 Black Cable)	
	Single Replacement Clamp for 1/0 Cable		<b>133045CPS</b>	
K-SEC 200	Single Replacement Clamp for 2/0 Cable		<b>133045Z20</b>	
<b>GROUNDING ELBOWS</b>				
	Grounding Elbow	15 kV	<b>GE215-1Y06-1/0 Cable</b> <b>GE215-2Y06-2/0 Cable</b>	11
		25 kV	<b>GE225-1Y06-1/0 Cable</b> <b>GE225-2Y06-2/0 Cable</b>	11
		35 kV	<b>GE235-1Y06-1/0 Cable</b> <b>GE235-2Y06-2/0 Cable</b>	11
K-SEC 200				
	Grounding Kit	15 kV	<b>GE215-1Y06-K1</b>	12
			<b>GE215-2Y06-K1</b>	13
			<b>GE215-1Y06-K3</b>	14
			<b>GE215-2Y06-K3</b>	15
		25 kV	<b>GE225-1Y06-K1</b>	12
			<b>GE225-2Y06-K1</b>	13
35 kV	<b>GE225-1Y06-K3</b>	14		
	<b>GE225-2Y06-K3</b>	15		
K-SEC 200		<b>GE235-1Y06-K1</b>	12	
		<b>GE235-2Y06-K1</b>	13	
<b>INSULATING AND SEALING MATERIALS</b>				
Aqua Seal				
	3 3/4" x 3 3/4" Pads – 25 per Box		<b>104742-2</b>	16
	3 3/4" x 10' Roll		<b>104742</b>	16
Air Seal				
	4" x 4" Pads – 25 per Box		<b>18415-8</b>	16
325-24	4" x 10' Roll		<b>18415-3</b>	16
<b>KEARNALEX™ INHIBITOR</b>				
Specification 118 (Non-Petroleum Base)				
	4 oz. Plastic Dispenser Bottle		<b>30584-25</b>	
	8 oz. Plastic Dispenser Bottle		<b>30584-3</b>	
	8 oz. Plastic Dispenser Bottle – Gritless		<b>30584-30</b>	
<b>CONDUCTOR CLEANING BRUSHES</b>				
	Hand Element and Replacement Brush for Fit-On Head – 477 kcmil ACSR MAX		<b>48900</b>	
	Hand Element and Replacement Brush for Fit-On Head– 954 kcmil ACSR MAX		<b>48900-2</b>	
	V-Brush with Handle and Guard		<b>118004</b>	
325-30	Single Replacement Brush for V-Brush		<b>19100</b>	

- For 6' 0" length, replace the "4" with a "61". For 8' 0" length, replace with "81". For 10' 0" length, replace with "101".
- For 6' 2" length, replace the "4" with "61". For 8' 2" length, replace with "81" and for 10' 2" length, replace with "101".
- For 8' 0" length, add "-1". For 10' 0" length, add "-2". For 12' 0" length, add "-3" to end of part number.
- For 8' 2" length, add "-1". For 10' 2" length, add "-2". For 12' 2" length, add "-3" to the end of the part number.
- For 6' 0" length, add "-10"; for 8' 0" length, add "-11"; for 10' 0" length, add "-13"; for 12' 8" length, add "-4" to end of part number.
- For 6' 0" length, add "-10"; for 8' 2" length, add "-11"; for 10' 2" length, add "-13"; for 12' 10" length, add "-4" to end of part number.
- For 6' 0" length, add "-1"; for 8' 0" length, add "-2"; for 10' 0" length, add "-3"; for 12' 8" length, add "-4" to end of part number.
- For 6' 2" length, add "-1"; for 8' 2" length, add "-2"; for 10' 2" length, add "-3"; for 12' 10" length, add "-4" to end of part number.
- Cutting capacity – Aluminum 1.2" O.D., Copper 600 kcmil.
- Cutting capacity – Aluminum 1.75" O.D., Copper 750 kcmil.
- Clamp and ferrule are not included with the grounding elbow.
- Single kit with (1) elbow with 1/0 cable, (1) portable feedthru, (1) protective cap and (1) test probe in a carrying bag.
- Single kit with (1) elbow with 2/0 cable, (1) portable feedthru, (1) protective cap and (1) test probe in a carrying bag.
- Triple kit with (3) elbows with 1/0 cable, (3) portable feedthrus, (3) protective caps and (1) test probe in a carrying bag.
- Triple kit with (3) elbows with 2/0 cable, (3) portable feedthrus, (3) protective caps and (1) test probe in a carrying bag.
- Other material sizes available.

# Bushings

Cooper Power Systems has a full line of one-piece bushings, bushing wells, bushing well inserts, and feed-thru inserts for installation on transformers and/or sectionalizing cabinets. The 15 kV and 25 kV class bushing inserts use a knurled piston providing maximum copper-to-copper current transfer and maximum thermal stability. After fault close operation, it locks the piston in the outward position, providing a visible indication against dangerous repetitive fault closure.

Type Primary Bushings	Current Rating (A)	Voltage Rating (kV)
Bushing wells	200	15, 25, 35
Integral loadbreak bushing 3Ø rated	200	35
Deadbreak apparatus bushing	600	15/25, 35
Deadbreak PUSH-OP Apparatus Bushing	600	15/25, 35



## 200 A Integral Loadbreak Bushing Specification Information

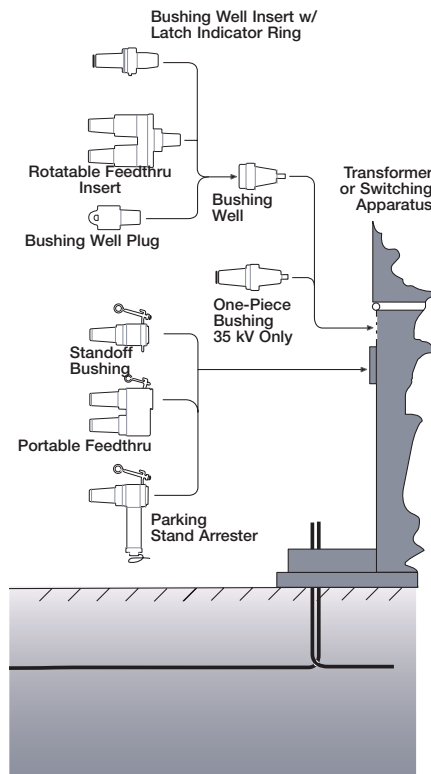
- 200 A, 35 kV three-phase rated integral loadbreak bushing meeting the requirements of IEEE Std 386™ standard No. 1A (large 35 kV class interface).
- Voltage and current ratings in accordance with IEEE Std 386™ standard.

## 600 A PUSH-OP Deadbreak Bushing Specification Information

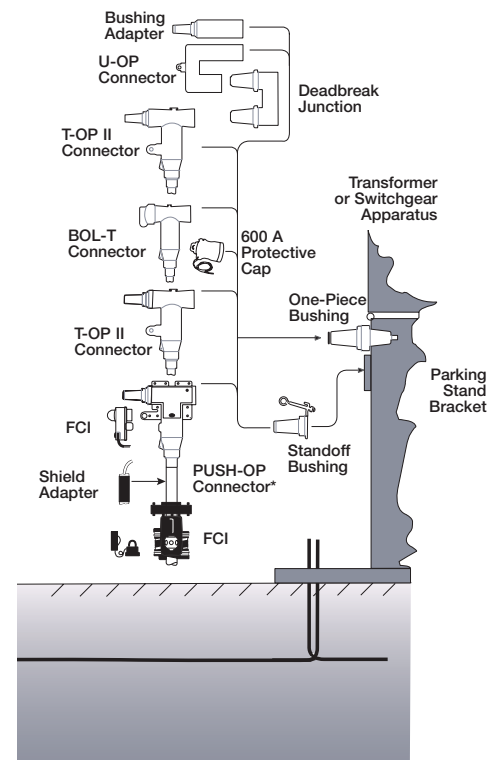
- 600 A Deadbreak Apparatus Bushing shall be compatible with Cooper 600 A PUSH-OP Connectors.
- Complete with plated copper finger contacts to accept PUSH-OP probe, to achieve a non-bolted connection.
- Voltage and current ratings in accordance with IEEE Std 386™ standard.

## 200 A HTN Tri-Clamp Bushing Well Specification Information






- Molded-In Semi-Conductive Shield.
- 35 kV, 150 kV BIL.
- HTN Material.
- Removable stud shall have provisions for easy removal of broken parts from both the bushing well and insert.
- Voltage and current ratings in accordance with IEEE Std 386™ standard.



200 A Applications



600 A Applications

Catalog Section	Description	kV Class	Base Part Number	Notes
 800-32	200 A Plastic (HTN) TRI-Clamp Bushing Well 2 9/16" Dia Hole Size	15/25/35 kV	<b>BW150F</b> (with fixed stud) <b>BW150R</b> (with removable stud)	2
 800-33	200 A Plastic (HTN) Bushing Well 2 9/16" Dia.Hole Size	15/25/28 kV	<b>2638372C01</b> (with fixed stud) <b>2638372C02R</b> (with removable stud)	1, 2, 5 1, 2, 5
 800-34	200 A Epoxy Bushing Well 2 9/16" Dia.Hole Size	15/25/28 kV	<b>2603973B02T</b> (with fixed stud) <b>2603973B02R</b> (with removable stud)	1, 2 1, 2
 800-39	200 A Three-Phase Integral Loadbreak Bushing	35 kV	<b>2637024C01M</b> (Externally Clamped – 2 3/4")	3
 800-45 800-47	600 A Deadbreak Bushing (Externally Clamped without Stud)	15/25 kV	<b>2637019B02</b> (Aluminum)	3
		15/25 kV	<b>2637019B04</b> (Copper)	3
		35 kV	<b>2637459C01</b> (Aluminum) (2 9/16")	3
		35 kV	<b>2637459C02</b> (Copper) (2 9/16")	3
 800-46 800-48	600 A Deadbreak PUSH-OP Bushing (Externally Clamped)	15/25 kV	<b>2637604C01</b> (2 9/16")	4
		35 kV	<b>2637939C01</b>	4
<b>3-STUD CLAMPS</b>				
 800-33 800-34	4.688 B.C. w/flange 4 Bail Tabs	15/25/35 kV	<b>2085399A01</b>	
			<b>2085399A02</b> (Stainless Steel)	
<b>4-STUD CLAMPS</b>				
 800-33 800-34 800-39 800-45 800-46 800-47 800-48	3.25 C-C	15/25/28 kV	<b>2606821A01</b>	
	3.25 C-C 2 Bail Tabs	15/25/28 kV	<b>2606823A02</b>	
	3.25 C-C 4 Bail Tabs	15/25/28 kV	<b>2606823A04</b>	
	3.90 C-C	35 kV	<b>2603989B01</b>	
	3.43 C-C (600 A)	15/25/35 kV	<b>2637023B01</b>	
	2 9/16" Dia. Hole Gasket	15/25/28/35 kV	<b>0537980C22</b>	
	2 9/16" Dia. Hole Gasket	15/25 kV	<b>0537980C07</b>	
	2 3/4" Dia. Hole Gasket	35 kV	<b>0537980C12</b>	
	2 9/16" Dia. Hole Gasket	15/25/35 kV	<b>0537980C06</b>	
	800-32 800-33 800-34	Red Shipping Cap	15/25/35 kV	<b>2638640C01</b>
800-39	Red Shipping Cap	35 kV	<b>2606754A03</b>	
800-45 800-46 800-47 800-48	Red Shipping Cap	15/25/35 kV	<b>2637700B02</b>	
800-32 800-33 800-34	Removable Stud (Well) Replacement Kit	15/25/28/35 kV	<b>2639081B01B</b>	
800-45 800-47	Removable Threaded Stud (600 A Bushings)	15/25 kV	<b>STUD-A</b> (Aluminum) <b>STUD-C</b> (Copper)	
		35 kV	<b>STUD635-A</b> (Aluminum) <b>STUD635-C</b> (Copper)	
800-39	Contact Tube Assembly	35 kV	<b>2637407B03B</b>	
800-39	Contact Tool Replacement Tool	35 kV	<b>2637585B01</b>	
800-46 800-48	PUSH-OP Bail Bracket Assembly	15/25/35 kV	<b>2638772B03M</b>	6
800-46 800-48	PUSH-OP Bracket Alignment Fixture	15/25/35 kV	<b>2637904C01</b>	
800-32	Grounding tab	15/25/35 kV	<b>0739658A02</b>	

1. Clamp must be ordered separately.
2. Bushing includes gasket and shipping cap.
3. Clamp and gasket must be ordered separately.
4. Clamp, gasket and bracket assembly must be ordered separately.
5. For **35 kV (150 kV BIL)** add "S" to end of the part number.
6. Latch handle standard on left side. For **latch handle on right side**, change digit 10 from a "3" to a "5".

Cooper Power Systems offers fuses under multiple tradenames: Cooper, Kearney, McGraw-Edison and Combined Technologies™. We have the broadest range of overcurrent protective devices to meet your application needs.

## Bay-O-Net Fuse Assembly

In the late 1960s, we introduced the Bay-O-Net Assembly and links to the industry for pad-mounted transformer protection. The Bay-O-Net Fuse has grown into the industry standard protection package for single- and three-phase transformers. The assembly combines the ease of hotstick operation with the safety of deadfront construction and is used with an isolation link to prevent line personnel from closing into a fault when replacing a blown Bay-O-Net Link. Alternately, a backup, current-limiting fuse can be used in place of the isolation link to increase interrupting ratings to 50 kA.



### Flapper™ Valve Bay-O-Net Assembly Specification Information

- Bay-O-Net Assembly shall include a valve that will shut when the inner holder is removed from the housing and minimize oil from spilling out of the Bay-O-Net Assembly.

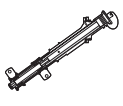




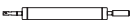

## TransFusion™ Coordination Program

This free, web-based, easy-to-use coordination tool makes transformer protective device selection for pad-mounted transformers effortless. By simply inputting a few pieces of data and selecting the desired level of protection, you can quickly find the right Cooper Power Systems ELSP fuse, Bay-O-Net fuse, or MagneX Interrupter for your application. The TransFusion Coordination Program provides you the flexibility of trying various combinations before deciding on the one that best fits your application needs. A simple click of the print button allows you to print your TCC curves and part numbers.

Go to this site for your coordination program  
[www.coopertransfusion.com](http://www.coopertransfusion.com).

**TABLE 1**  
**ELSP Fuse Combinations**

Voltage (kV)	Current Rating (A)	ELSP Part Numbers	Description
8.3	30	CBUC08030C100	8.3 kV 30 A
	40	CBUC08040C100	8.3 kV 40 A
	50	CBUC08050C100	8.3 kV 50 A
	65	CBUC08065C100	8.3 kV 65 A
	80	CBUC08080C100	8.3/9.9 kV 80 A
	100	CBUC08100C100	8.3/9.9 kV 100 A
	125	CBUC08125C100	8.3 kV 125 A
	150	CBUC08150D100	8.3 kV 150 A
	165	CBUC08165D100	8.3 kV 165 A
	180	CBUC08180D100	8.3 kV 180 A
9.9	250	CBUC08250D100	8.3 kV 250 A
	30	CBUC09030C100	9.9 kV 30 A
	40	CBUC09040C100	9.9 kV 40 A
	50	CBUC09050C100	9.9 kV 50 A
15.5	65	CBUC09065C100	9.9 kV 65 A
	30	CBUC15030C100	15.5 kV 30 A
	40	CBUC15040C100	15.5 kV 40 A
	50	CBUC15050C100	15.5 kV 50 A
	65	CBUC15065C100	15.5 kV 65 A
	80	CBUC15080C100	15.5/17.2 kV 80 A
	100	CBUC15100C100	15.5/17.2 kV 100 A
	125	CBUC15125C100	15.5/17.2 kV 125 A
	150	CBUC15150D100	15.5 kV 150 A
17.2	165	CBUC15165D100	15.5 kV 165 A
	180	CBUC15180D100	15.5 kV 180 A
	30	CBUC17030C100	17.2 kV 30 A
	40	CBUC17040C100	17.2 kV 40 A
23	50	CBUC17050C100	17.2 kV 50 A
	65	CBUC17065C100	17.2 kV 65 A
	30	CBUC23030C100	23 kV 30 A
	40	CBUC23040C100	23 kV 40 A
	50	CBUC23050C100	23 kV 50 A
	65	CBUC23065C100	23 kV 65 A
	80	CBUC23080C100	23 kV 80 A
	100	CBUC23100C100	23 kV 100 A
23 kV fuse for use on 35 kV systems	125	CBUC23125D100	23 kV 125 A
	150	CBUC23150D100	23 kV 150 A
	165	CBUC23165D100	23 kV 165 A
	150	CBUC35150D100	23 kV 150 A fuse for use on a 35 kV System

Catalog Section	Description	kV Class	Base Part Number	Notes
<b>SIDE- AND COVER-MOUNTED BAY-O-NET FUSE ASSEMBLY</b>				
	Flapper Side Wall-Mount		4000361C99FV	
	Side Wall		4000361C99MC	
	w/o Flapper Valve			
	Cover-Mount (Short)		40001177B51MC	
240-40	Cover-Mount (Long)		40001177B53MC	
<b>CURRENT SENSING BAY-O-NET FUSE LINK</b>				
	6 A		4000353C04	1, 3, 4
	10 A		4000353C06	1, 3, 4
	15 A		4000353C08	1, 3, 4
	25 A		4000353C10	1, 3, 4
	40 A		4000353C12	1, 3, 4
	65 A		4000353C14	1, 3, 4
	100 A		4000353C16	1, 3, 4
	240-45	140 A		4000353C17
<b>DUAL SENSING BAY-O-NET FUSE LINK</b>				
	3 A		4000358C03	1, 3, 4
	8 A		4000358C05	1, 3, 4
	15 A		4000358C08	1, 3, 4
	25 A		4000358C10	1, 3, 4
	50 A		4000358C12	1, 3, 4
	65 A		4000358C14	1, 3, 4
	100 A		4000358C16CB	1, 3, 4
	240-46	140 A		4000358C18CB
<b>DUAL ELEMENT BAY-O-NET FUSE LINK</b>				
	5 A		4038108C03	1, 3, 4
	6 A		4038108C04	1, 3, 4
	8 A		4038108C05	1, 3, 4
	12 A		4038108C06	1, 3, 4
	15 A		4038108C07	1, 3, 4
	25 A		4038108C09	1, 3, 4
	40 A		4038108C11	1, 3, 4
	50 A		4038108C12	1, 3, 4
	240-48	65 A		4038108C14
<b>HIGH AMPERE OVERLOAD BAY-O-NET FUSE LINK</b>				
	65 A		4038361C03CB	2, 3, 4
	100 A		4038361C04CB	2, 3, 4
	125 A		4038361C05CB	2, 3, 4
	240-49	Shorting Bar (Solid Link)		4038361C10CB
<b>ISOLATION LINK</b>				
240-47			3001861A_ _ _	3
<b>ELSG FULL RANGE</b>				
	240-82	Current-Limiting Fuse	359_ _ _M_ _M (See Table 2 Below)	
	<b>ELSP BACKUP</b>			
	240-98	Current-Limiting Fuse	CBUC_ _ _ _ _ (See Table 1 Page 46)	

1. Add suffix "B" to order individual fuse; add "M" to order bag of 50.
2. When ordering high ampere overload Bay-O-Net Fuse Link, a silver-plated Bay-O-Net Fuse Assembly, part number 4038804B03M, must be ordered.
3. To coordinate an isolation link with a Bay-O-Net Fuse when an ELSP Fuse is not used, see Catalog Section 240-47.
4. For recommended ELSP backup CLF ratings, see Catalog Section 240-98 or TransFusion Coordination Program.

**TABLE 2**  
E-rated ELSG Fuse Ordering Information for 15 kV Wetwell Holder\*

E-Rating	Continuous Current Rating (A)	Fuse kV and Catalog Number		E-Rating	Continuous Current Rating (A)	Fuse kV and Catalog Number	
		8.3 kV	15.5 kV			8.3 kV	15.5 kV
4	9	3593004M02M	3594004M83M	65	92	-	3594065M83M
8	14	3593008M02M	3594008M83M	65	95	3593065M01M	-
12	18	3593012M02M	3594012M83M	80	106	-	3594080M83M
15	24	3593015M02M	3594015M83M	80	125	3593080M01M	-
20	34	3593020M02M	3594020M83M	100	130	-	3594100M83M
25	35	3593025M02M	3594025M83M	100	155	3593100M01M	-
30	46	3593030M02M	3594030M83M	120	150	-	3594120M83M
40	53	3593040M02M	3594040M83M	125	180	3593125M01M	-
50	65	3593050M02M	3594050M83M	150	200	-	3594150M83M
60	76	3593060M02M	3594060M83M				

\* 15 kV Wetwell Holder part numbers 3437322C01M (mild steel) and 3437322C02M (stainless steel). For 25 kV and 35 kV ordering information, refer to Catalog Section 240-82.

# MagneX Single-Phase Interrupter

The MagneX™ Single-Phase Interrupter offers a solution to the utility wanting to eliminate oil exposure in the field when operation occurs due to transformer overloads. There is no need for replacement fuse links, resulting in economic value to the user. In addition, a MagneX Interrupter in series with a back-up, current-limiting fuse offers additional protection.

**TABLE 1**  
Voltage Ratings and Characteristics

Description	Rating
Impulse 1.2x50 Microsecond Wave	150 kV
60 Hz-1 Minute Voltage Withstand	50 kV
Continuous Current Rating	42 A
Switching Load Currents, 200 Times	42 A
Magnetizing Current Switching	200 Times

Continuous current ratings and dielectric testing are in accordance with ANSI/IEEE Std C57.12™ standard. Switching and Fault Close IEEE Std C37.41™ standard. Overload Protection IEEE Std C57.41™ standard.

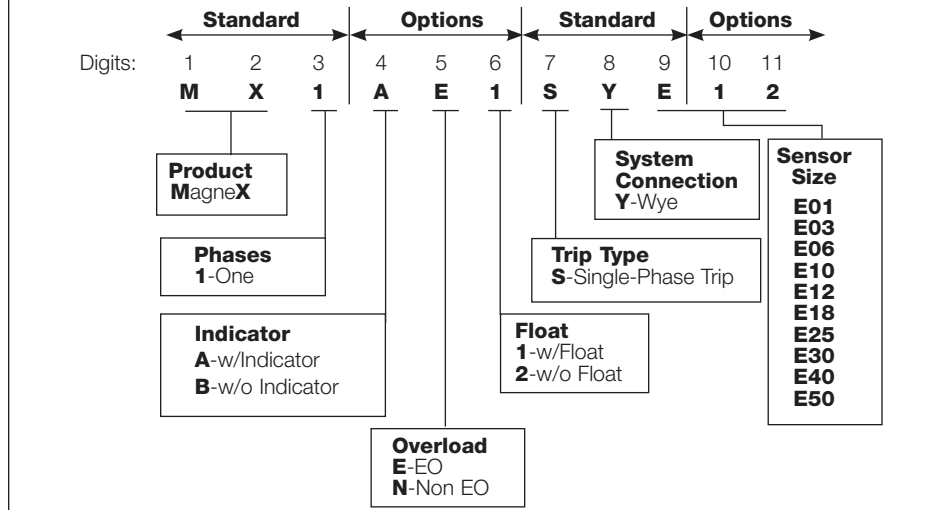
**TABLE 2**  
Interrupting Rating

Voltage kV-LG	RMS Symmetric (A)	RMS Asymmetric (A)
8.3	2800	4200
15.5	1500	2250
23.0	500	750



**TABLE 3**  
MagneX Significant Digit Catalog Number System

Example: To order a single-phase MagneX Interrupter without indicator, single-phase trip, with float and E12 sensor, the catalog number would be **MX1BN1SYE12**. (Refer to Catalog Section 240-34.)



To select the correct isolation link, use Table 1 to cross reference the isolation link to the selected MagneX sensor. **An isolation link is required if the MagneX is not in series with a current-limiting fuse.**

**TABLE 4**  
Isolation Link - MagneX Correlation Chart

Sensor Number	Isolation Link
E01	3637803B01
E03	3637803B08
E06	3637803B02
E10	3637803B09
E12	3637803B10
E18	3637803B03
E25	3637803B03
E30	3637803B05
E40	3637803B05
E50	3637803B05

## ORDERING INFORMATION

Use Table 6 to determine the correct MagneX Interrupter suffix (sensor number) for the application.

Use Table 3 to determine the catalog number.

When ordering a MagneX Interrupter with a standard handle, a hardware kit must be ordered separately. Use Table 7 to determine the hardware kit catalog number.

To select the correct isolation link, use Table 4 to cross reference the isolation link to the selected MagneX Interrupter.

**An isolation link is required if the MagneX is not in series with a current-limiting fuse.**

Example – MagneX Interrupter with an emergency overload, indicator, and a float in series with an ELSP Current-Limiting Fuse for a single-phase, 7.2 kV phase-to-ground, 25 kVA transformer, specify:

- 1 – 40 A ELSP Fuse 3543040M61M
- 1 – MagneX Interrupter MX1AE1SYE06
- 1 – Hardware Kit (with Emergency Overload, indicator, and no adaptor) 3638535A05

See the following Catalog Sections for further information:

ELSP Fuse Holder 240-53

ELSP Current-Limiting Backup Fuse 240-98

## MagneX with Current-Limiting Fuse

To order a MagneX Interrupter and current-limiting fuse combination, see Table 5.

**TABLE 5**  
Hardware Kits

Description	Catalog Number
Without emergency overload	3638535A04
With emergency overload	3638535A05
With adaptor without emergency overload	3638535A07
With adaptor with emergency overload	3638535A08
Hotstick adaptor only	3639585A01

## Using TCC Curves

To determine or confirm the MagneX Interrupter will coordinate with upstream and down stream system requirements, use the time-current characteristic curves (See R240-91-310). For full size TCC curves, contact your Cooper Power systems representative.





MagneX with hotstick adapter and indicator

**TABLE 6**  
**Single-Phase Transformer (Phase-to-Ground) Applications Correlation Chart**

kVA/kV	Primary Voltage kV										
	2.4	4.16	4.8	6.9	7.2	7.62-7.97	8.32	12.00	12.47-13.2	13.8-14.4	19.92
10	E06	E06	E03	E03	E03	E03	E03	E01	E01	E01	E01
15	E10	E06	E06	E03	E03	E03	E03	E03	E03	E03	E03
25	E18	E10	E10	E06	E06	E06	E06	E03	E03	E03	E03
37.5	E25	E18	E12	E10	E10	E10	E10	E06	E06	E06	E06
50	E30	E18	E18	E12	E12	E12	E10	E06	E06	E06	E06
75	E50	E30	E25	E18	E18	E18	E18	E10	E10	E10	E06
100	-	E40	E30	E25	E25	E25	E18	E12	E12	E12	E10
167	-	-	E50	E40	E40	E30	E30	E18	E18	E18	E12

**Notes:**

Recommendations are based on:

- Minimum trip curves, and Maximum trip and clear curves, R240-91-310.
- Deration factor of 0.5% per °C above 25 °C.
- Allowable loading greater than 140% for four hours in accordance with IEEE Std C57.91™-1981 standard Guide for Loading Distribution Transformers, Table 6.

**TABLE 7**  
**Recommended MagneX Interrupter Sensor and ELSP Current-Limiting Fuse Combinations**

Nominal Single Phase (kV Phase-to-ground)	8.3 kV			15.5 kV		23 kV
	2.4	4.16-4.8	6.9-8.0	12.0-14.4	16.34	19.92
10 kVA ELSP Rating with Emergency Overload MagneX Element	30 E06	30 E03	30 E03	30 E01	30 E01	30 E01
15 kVA ELSP Rating with Emergency Overload MagneX Element	50 E10	30 E06	30 E03	30 E03	30 E01	30 E01
25 kVA ELSP Rating with Emergency Overload MagneX Element	80 E18	50 E10	30 E06	30 E03	30 E03	30 E03
37.5 kVA ELSP Rating with Emergency Overload MagneX Element	100 E18	80 E12	50 E10	30 E06	30 E03	30 E03
50 kVA ELSP Rating with Emergency Overload MagneX Element	150 E30	100 E18	50 E12	30 E06	30 E06	30 E03
75 kVA ELSP Rating with Emergency Overload MagneX Element	150 E40	125 E25	100 E18	40 E10	30 E06	30 E06
100 kVA ELSP Rating with Emergency Overload MagneX Element	250 E50	165 E40	100 E18	50 E12	40 E10	30 E06
167 kVA ELSP Rating with Emergency Overload MagneX Element	- -	180 E50	150 E40	80 E18	80 E18	50 E12

**Notes:**

Table shows minimum recommended ELSP Fuse ratings. Recommended ELSP Backup Fuse (described in Catalog Section 240-98) will coordinate with the MagneX Interrupter and melt on internal transformer faults. The MagneX Interrupter recommendations are based on:

- Minimum trip curves, and Maximum trip and clear curves R240-91-310.
- Deration factor of 0.5% per °C above 25°C.
- Allowable loading greater than 140% for four hours in accordance with IEEE Std C57.41™-1981 standard guide for Loading Distribution Transformers, Table 6.

# MagneX Three-Phase Interrupter

The Three-Phase MagneX Interrupter offers a solution to the utility wanting to eliminate oil exposure in the field when operation occurs due to transformer overloads. There is no need for replacement fuse links, resulting in economic value to the user. In addition, a MagneX Interrupter in series with a back-up, current-limiting fuse offers additional protection.

## MagneX Interrupter Specification Information

- Breaker shall be installed on the primary side of transformer.
- Breaker shall have the capability to energize and de-energize the 3Ø transformer by one hotstick operation.

**TABLE 1**  
Voltage Ratings and Characteristics

Description	kV	Rating
Impulse 1.2x50 Microsecond Wave	150 kV	-
60 Hz-1 Minute Voltage Withstand	50 kV	-
Continuous Current Rating	-	42
Switching Load Currents	-	42

Continuous current ratings and dielectric testing are in accordance with IEEE Std C57.12™ standard.  
Switching and Fault Close IEEE Std C37.41™ standard.  
Overload Protection IEEE Std C57.41™ standard.

**TABLE 2**  
Interrupting Rating

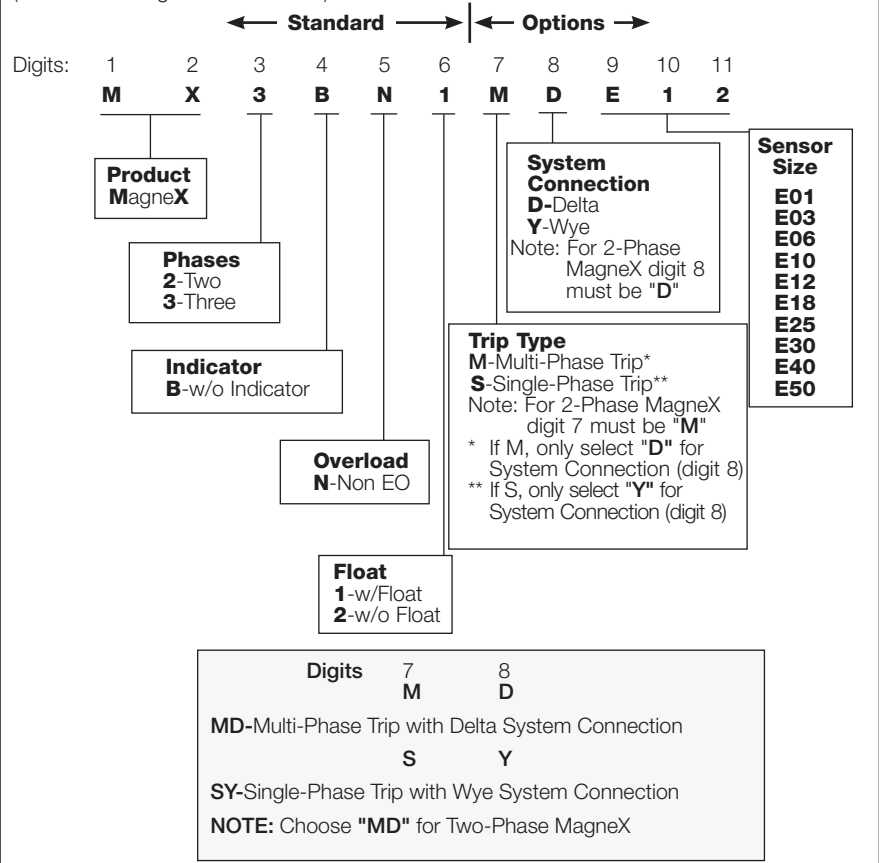
Voltage kV-LG (A)	RMS Symmetric (A)	RMS Asymmetric (A)
8.3	2800	4200
15.5	1500	2250
23.0	500	750

**TABLE 3**  
Hardware Kits

Description	Catalog Number
Standard Handle Kit & Hardware without Emergency Overload	3638535A09

**TABLE 4**  
MagneX Significant Digit Catalog Number System

Example: To order a two- or three- phase MagneX Interrupter without indicator, single- and three-phase trip, with float and E12 sensor, the catalog number would be **MX3BN1SYE12**. (Refer to Catalog Section 240-33.)



## ORDERING INFORMATION

Use Table 6 to determine the correct MagneX Interrupter suffix (sensor number) for the application.

Use Table 3 to determine the catalog number.

When ordering a MagneX Interrupter with a standard handle, a hardware kit must be ordered separately. Use Table 7 to determine the hardware kit catalog number.

To select the correct isolation link, use Table 4 to cross reference the isolation link to the selected MagneX Interrupter. An isolation link is recommended if the MagneX is not in series with a current-limiting fuse.

**TABLE 9**  
**Isolation Link – MagneX Correlation Chart**

Sensor Number	Isolation Link	Sensor Number	Isolation Link
E01	3637803B01	E18	3637803B03
E03	3637803B08	E25	3637803B03
E06	3637803B02	E30	3637803B05
E10	3637803B09	E40	3637803B05
E12	3637803B10	E50	3637803B05

**TABLE 7**  
**Two-Phase MagneX Recommendations**

kVA/kV	Primary Voltage kV										
	2.4	4.16	4.8	6.9	7.2	7.62-7.97	8.32	12.00	12.47-13.2	13.8-14.4	19.92
10 15	E06 E10	E06 E06	E03 E06	E03 E03	E03 E03	E03 E03	E03 E03	E01 E03	E01 E03	E01 E03	E01 E01
25 37.5	E18 E25	E10 E18	E10 E12	E06 E10	E06 E10	E06 E10	E06 E10	E03 E06	E03 E06	E03 E06	E03 E03
50 75	E30 E50	E18 E30	E18 E25	E12 E18	E12 E18	E12 E18	E10 E18	E06 E10	E06 E10	E06 E10	E06 E06
100 167	- -	E40 -	E30 E50	E25 E40	E25 E40	E25 E30	E18 E30	E12 E18	E12 E18	E12 E18	E10 E12

**Notes:**

Recommendations are based on:

- Minimum trip curves, and Maximum trip and clear curves, **R240-91-310**.
- Deration factor of 0.5% per °C above 25 °C.
- Allowable loading greater than 140% for four hours in accordance with IEEE Std C57.91™-1981 standard Guide for Loading Distribution Transformers, Table 6.

**TABLE 8**  
**Recommended Two-Phase MagneX Interrupter and ELSP Current-Limiting Fuse Combinations**

Nominal Single Phase (kV Phase-to-ground)	8.3 kV			15.5 kV		23 kV
	2.4	4.16-4.8	6.9-8.0	12.0-14.4	16.34	19.92
10 kVA ELSP Rating with Emergency Overload MagneX Element	30 E06	30 E03	30 E03	30 E01	30 E01	30 E01
15 kVA ELSP Rating with Emergency Overload MagneX Element	50 E10	30 E06	30 E03	30 E03	30 E01	30 E01
25 kVA ELSP Rating with Emergency Overload MagneX Element	80 E18	50 E10	30 E06	30 E03	30 E03	30 E03
37.5 kVA ELSP Rating with Emergency Overload MagneX Element	100 E18	80 E12	50 E10	30 E06	30 E03	30 E03
50 kVA ELSP Rating with Emergency Overload MagneX Element	150 E30	100 E18	50 E12	30 E06	30 E06	30 E03
75 kVA ELSP Rating with Emergency Overload MagneX Element	150 E40	125 E25	100 E18	40 E10	30 E06	30 E06
100 kVA ELSP Rating with Emergency Overload MagneX Element	250 E50	165 E40	100 E18	50 E12	40 E10	30 E06
167 kVA ELSP Rating with Emergency Overload MagneX Element	- -	180 E50	150 E40	80 E18	80 E18	50 E12

**Notes:**

Table shows minimum recommended ELSP Fuse ratings. Recommended ELSP Backup Fuse (described in Catalog Section 240-98) will coordinate with the MagneX Interrupter and melt on internal transformer faults. The MagneX Interrupter recommendations are based on:

- Minimum trip curves, and Maximum trip and clear curves **R240-91-310**.
- Deration factor of 0.5% per °C above 25°C.
- Allowable loading greater than 140% for four hours in accordance with IEEE Std C57.41™-1981 standard guide for Loading Distribution Transformers, Table 6.

# Faulted Circuit Indicators

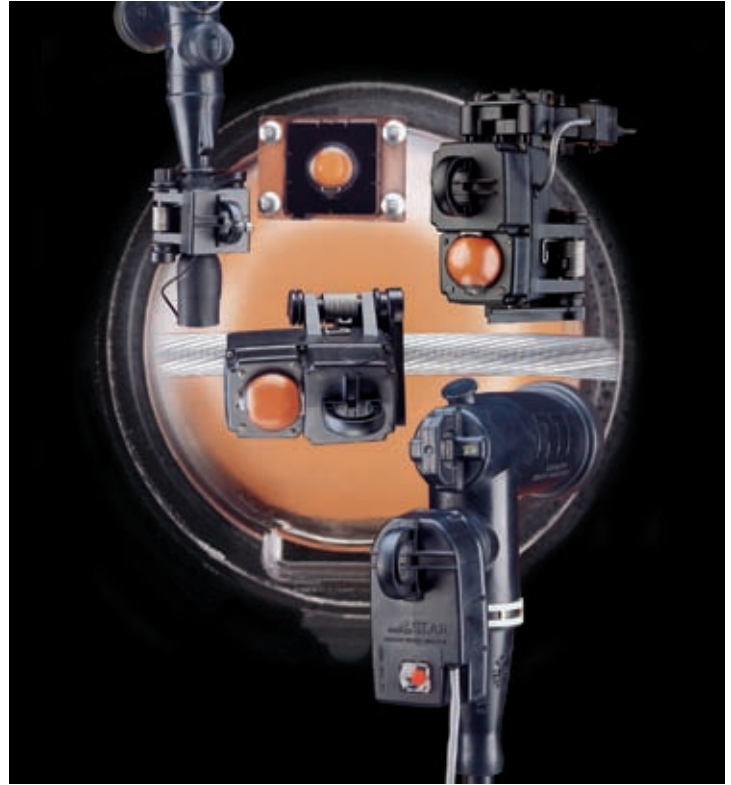
Cooper Power Systems offers a wide variety of faulted circuit indicators (FCIs) ranging from basic circuitry models in the Delayed Reset style to the more sophisticated circuitry of the Test Point Reset and Electrostatic Reset types. Our S.T.A.R.™ Faulted Circuit Indicator product line offers six basic types of FCIs and each unit is tailored to be the most reliable for the intended application. Each type varies by reset method and the type of system it connects to.

Standard S.T.A.R. features include:

- **LO/Hi Trip Rating Selection** – Innovative trip ratings greatly simplify FCI selection application
- **Current Transformer Sensing Design** – For maximum trip accuracy and elimination of false tripping on adjacent cable events
- **Inrush Restraint** – Eliminates false tripping by ignoring inrush currents caused by reclosing operations of protective devices on the system. A dead time of 200 ms will activate the inrush restraint feature.
- **Low-Pass Filter Technology** – Prevents false tripping due to capacitive cable discharge
- **Design Tested to IEEE Std 495™ standard and Manufactured in ISO 9001 Facility** – To ensure highest performance and quality

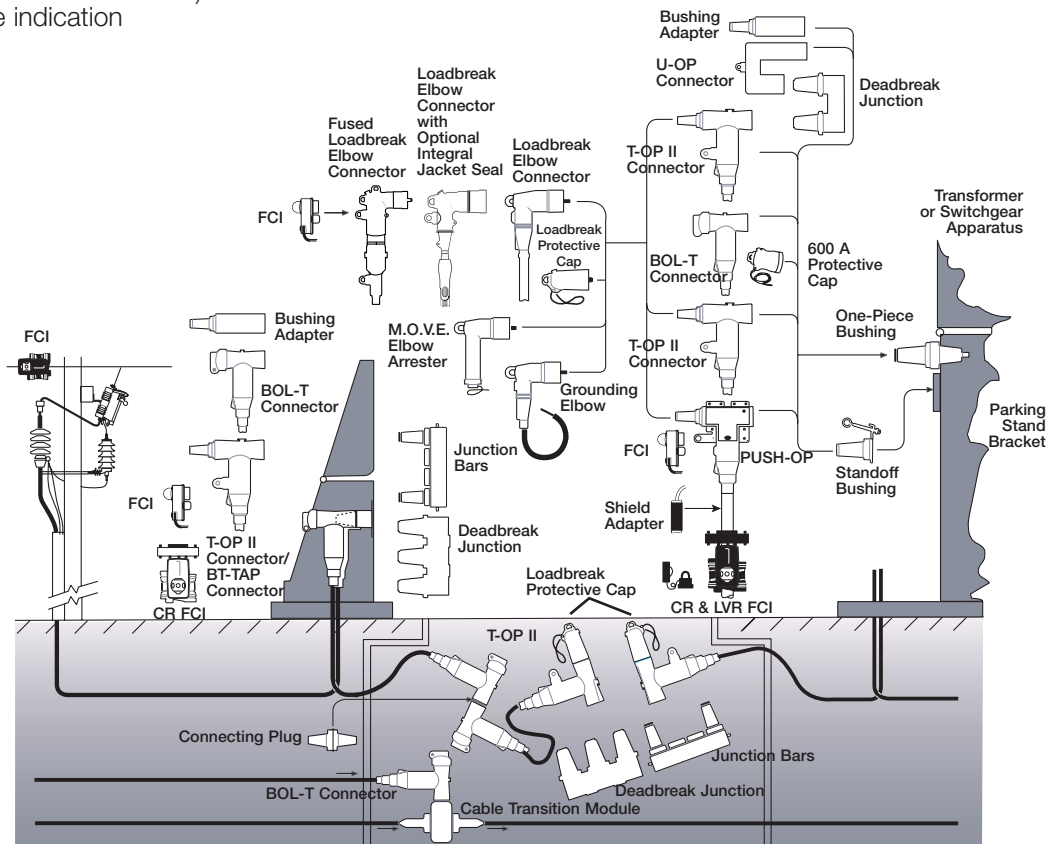
In addition to the above features, the Pathfinder™ FCIs include:

- **Variable Trip Technology** – Single trip rating for one-size-fits-all application
- **Self Adjusting Reset Restraint** (test point mounted model) – “Learns” your system voltage and won’t allow false resetting due to backfeed voltage
- **BLOC™** – Battery Life Optimization Circuitry for maximizing battery life
- **Remote Fiber Optic Cable** (test point mounted model) – Optional remote for convenient remote indication

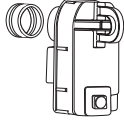
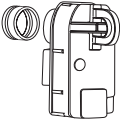


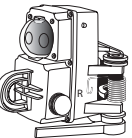
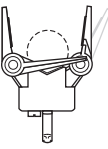



## Pathfinder Test Point Faulted Circuit Indicator Specification Information

- Fault indication on minimum 200 A di/dt within 100 ms (variable trip).
- Response time of 3 ms or less, for coordination with current-limiting fuses (fixed trip).
- Inrush restraint to prevent false tripping due to current inrush conditions.
- Low pass filter specifically tuned to prevent false tripping on high frequency transients, but to allow proper indication on systems using current-limiting fuses.
- Temperature compensation for accurate and reliable performance over a temperature range of -40° C to +85° C.
- Reset restraint to prevent false reset due to excessive voltage feedback levels up to 80% of nominal system voltage (STVT).
- Installation using single hotstick.



## For 15 kV, 25 kV and 35 kV Class

Catalog Section	Description	Base Part Number	Notes
<b>TEST POINT RESET</b>			
	Adapter Kit	STAK	5
	High (HI)-Trip	STHI	1
	High (HI)-Trip w/Aux. Contact	STHIA	1
	High (HI)-Trip w/Adapter Kit	STHIK	
	Low (LO)-Trip	STLO	1
	Low (LO)-Trip w/Aux. Contact	STLOA	1
	320-40 Low (LO)-Trip w/Adapter Kit	STLOK	
<b>PATHFINDER TEST POINT RESET</b>			
	Variable Trip	STVT	
	Variable Trip w/Aux. Contact	STVTA	
	Fiber Optic Remote Cable (6 ft.)	SFOC	2
	Reset Tool	SMRT	5
	320-42 Adapter Kit	STAK	5
<b>LOW VOLTAGE RESET</b>			
	High (HI)-Trip	SLHI	3
	High (HI)-Trip w/Aux. Contact	SLHIA	3
	Low (LO)-Trip	SLLO	3
	320-50 Low (LO)-Trip w/Aux. Contact	SLLOA	3
<b>ELECTROSTATIC RESET</b>			
	High (HI)-Trip	SEHI	
	High (HI) Trip with LED (Light Emitting Diode) Indication	SEHIL	
	Low (LO)-Trip	SELO	
	Low (LO) Trip with LED (Light Emitting Diode) Indication	SELOL	
	320-60 Replaceable Battery	SRPB	5
<b>PATHFINDER ELECTROSTATIC RESET</b>			
	Variable Trip with 4-Hour Reset	SEVT	
	Variable Trip with LED (Light Emitting Diode) Indication with 4-Hour Reset	SEVTL	
	Variable trip with LED and Replaceable Battery with 4-Hour Reset	SEVTLB	
	Manual Reset Tool	SMRT	5
	Variable Trip with 4-Minute Reset	SEVTND	
	Variable Trip with 24-Hour Reset	SEVT24	
	Variable Trip with 24-Hour Reset, LED Light Indication	SEVT24L	
	Variable Trip with 24-Hour Reset, LED Light Indication with Replaceable Battery	SEVT24LB	
	Variable Trip with 4-Minute Reset, LED Light Indication	SEVTNDL	
	Variable Trip with 4-Minute Reset, LED Light Indication with Replaceable Battery	SEVTNDLB	
	320-62 Replaceable Battery	SRPB	
<b>DELAYED RESET</b>			
	High (HI)-Trip, 1-Hour Reset	SDHI1	2,4
	Low (LO)-Trip, 1-Hour Reset	SDLO1	2,4
	High (HI)-Trip, 1-Hour Reset with 6' Fiber Optic Cable	SDHI1F	2,4
	Low (LO)-Trip 1-Hour Reset with 6' Fibre Optic Cable	SDLO1F	2,4
	Fiber Optic Remote	SFOC	2
	320-65 Reset Tool	SMRT	
<b>MANUAL RESET</b>			
	High (HI)-Trip	SMHI	
	Low (LO)-Trip	SMLO	
	320-70 Reset Tool	SMRT	




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### Notes:

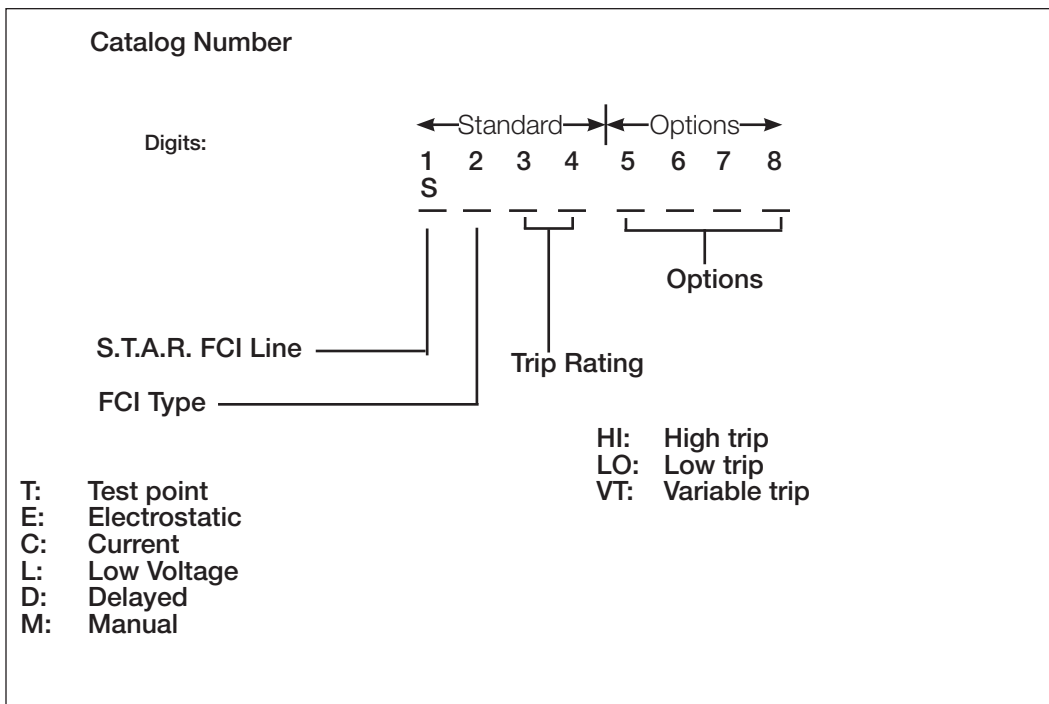
- To add remote **FISHEYE™** display add an "R" as the last character in the part number, or a "S" for the small remote display.
- SFOC (Star Fiber Optic Cable) standard length is 6 ft. add "09F" for 9 ft. fiber optic display, "12" for 12 ft., "25" for 25 ft.
- To add universal power supply (120, 208 or 277 VAC power connection), add a "U" as the last character in the part number.
- To change the reset time, change the "1" in digit five to a "2" for 2-hours, a "4" for 4-hours or to a "6" for 6-hours. Contact Factory for additional reset times.
- Accessories to be ordered separately.

# Faulted Circuit Indicators

(continued from previous page)

Catalog Section	Description	Base Part Number	Notes
 320-75	<b>CURRENT RESET</b>		
	High (HI)-Trip	SCHI	1
	Low (LO)-Trip	SCLO	1
	High (HI) Trip with Auxiliary Contacts	SCHIA	1
	Low (LO) Trip with Auxiliary Contacts	SCLOA	1
 320-77	<b>PATHFINDER CURRENT RESET</b>		
	Variable Trip	SCVT	1
	Variable Trip with Auxiliary Contacts	SCVTA	1
 320-80	<b>TEST POINT HOT LINE INDICATOR</b>		
	Hot Line Indicator	STHL	
	Adapter Kit	STAK	5

Type Description	Typical System Application	Physical Mounting Location	Voltage/Current Requirements
Test Point Reset	Underground	On the test point of the connector	Min. 5 kV L-G (2.4 kV for Pathfinder)
Low-Voltage Reset	Underground	On the URD shielded cable below the connector	A secondary voltage source (min. 105 volts)
Electrostatic Reset	Overhead	On bare or insulated non-shielded cable	Min. 6.9 kV L-G (2.4 kV for Pathfinder)
Delayed Reset	Underground and Overhead	On the URD shielded cable below the connector and on overhead bare or insulated non-shielded cable	None (Lithium battery powered with timed reset)
Manual Reset	Underground and Overhead	On the URD shielded cable below the connector and on overhead bare or insulated non-shielded cable	None (Lithium battery powered manually reset)
Current Reset	Underground and Overhead	On the URD shielded cable below the connector and on overhead bare or insulated non-shielded cable	Min. 2.4 A continuous



## S.T.A.R. Faulted Circuit Indicators Features

Model/Type	Test Point Reset	Pathfinder Test Point	Low Voltage Reset	Electrostatic Reset	Pathfinder Electrostatic	Delayed Reset	Manual Reset	Current Reset	PATHFINDER Current Reset
<b>Base Part Numbers</b>	STLO STHI	STVT	SLLO SLHI	SELO SEHI	SEVT	SDLO SDHI	SMLO SMHI	SCLO SCHI	SCVT
<b>Catalog Section</b>	320-40	320-42	320-50	320-60	320-62	320-65	320-70	320-75	320-77
<b>Application</b>									
	•	•	•	•	•	•	•	•	•
<b>Trip Rating</b>	•								
<b>Standard Features</b>	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•
<b>Display Type</b>		•		Optional	Optional	•	•	•	•
<b>Available Options</b>	•	•	•						
	•	•	Standard					•	•
	•							•	•
	•	•				•			
	•	•			•	•	•		
	•	•							
	•	•	•						
<b>Power Requirements</b>									
	•	•		•	•	•	•	•	•
				Optional	Optional				
<b>Reset Requirements</b>		•							
	•								
				•					
			•						
			•					•	
						Timed	Manual		•
Other									

Product/Feature unique to the Cooper Power Systems S.T.A.R. Faulted Circuit Indicators

# Sectionalizing Cabinets

Our single- and three-phase SecTER™ Sectionalizing Cabinets and single-phase sectionalizing pedestals are designed as cable sectionalizing centers, or as permanent or temporary transformer pad covers.

The aesthetic low profile design provides unobtrusive installations for sectionalizing, tapping, or terminating underground cable. They are available in various sizes for use on 15 kV through 35 kV, 200 A or 600/900 A single-phase and three-phase rated systems. For highly corrosive environments, either stainless steel or aluminum is also available. Heavy mild steel gauge designs along with a continuous seam welding ensures a sturdy, smooth, long lasting cabinet.

Universal mounting plates with optional our two-, three- or four-way junctions can be factory installed. Junction installations are available in either 200 A or 600 A versions.

## SecTER features:

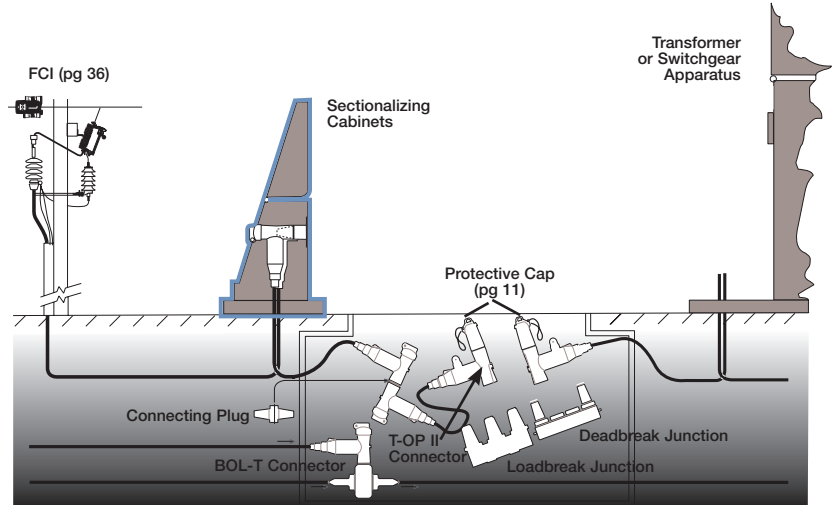
- Munsell Green, TGIC powder paint finish
- Designed for easy one-person opening and improved access to interior terminations
- Door stop prevents accidentally closing
- Seams are designed to exceed ANSI tamperproof standards
- Optional installed junctions



## SecTER Specification Information

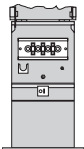
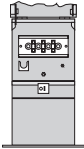
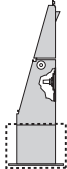
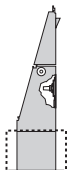

To capitalize on the benefits of our SecTER Sectionalizing Cabinets, include the following information in your specification:

- Diagonally cut removable cover and cabinet.
- Munsell Green TGIC powder paint finish.
- All welded, continuous seam construction.
- Cooper Power Systems 200 A or 600/900 A junctions or junction bars installed.



Catalog Number (cabinet only)	Dimensions	Cabinets with Junctions Installed											
		Single-Phase Cabinets Include (1) Junction, Three-Phase Cabinets Include (3) Junctions											
		15 KV		25 KV		35 KV		600 A 15/25 KV					
	LJ215C2U	LJ215C3U	LJ215C4U	LJ225C2U	LJ225C3U	LJ225C4U	LJ235C2U	LJ235C3U	LJ235C4U	DJ625A2U	DJ625A3U	DJ625A4U	
	15 KV LBC-2	15 KV LBC-3	15 KV LBC-4	25 KV LBC-2	25 KV LBC-3	25 KV LBC-4	35 KV LBC-2	35 KV LBC-3	35 KV LBC-4	VBJ-2	VBJ-3	VBJ-4	
<b>SERIES I SecTER 15/25/35 KV Class, 12 Gauge Steel Tank</b>													
Single-Phase													
00400L00K54A	30H x 24W x 22D	00400L01K49A	00400L01K29A	00400L02K35B	00400L02K87A	00400L02K88A	00400L00K35A	00400L00K12D	00400L00K22D	00400L00K32D	00400L01K38A	00400L01K58A	00400L01K68A
00400L00K58A	30H x 30W x 22D	00400L02K24E	00400L02K37B	00400L02K81B	00400L02K17B	00400L02K27B	00400L02K47B	00400L00K72D	00400L00K82C	00400L00K92C	00400L01K22J	00400L01K32J	00400L01K42J
00400L00K62A	30H x 36W x 22D	00400L02K76A	00400L02K42B	00400L02K80B	00400L01K28A	00400L01K48A	00400L01K50A	00400L00K62D	00400L00K95D	00400L00K62C	00400L01K12M	00400L01K22M	00400L01K32M
Three-Phase													
00450L00K02A	30H x 48W x 22D	00450L00K21E	00450L00K14D	-	00450L00K29C	00450L00K83C	-	00450L00K28D	-	-	00450L01K71A	00450L00K01D	-
00450L00K06A	30H x 66W x 22D	00450L00K36D	00450L00K10D	00450L00K15D	00450L00K09D	00450L00K19D	00450L01K53A	00450L00K08D	00450L00K18D	-	00450L00K35C	00450L00K97B	00450L01K63A
00450L00K10A	30H x 84W x 22D	00450L00K82D	00450L00K92D	00450L00K33C	00450L00K74E	00450L00K84E	00450L00K84C	00450L00K96C	00450L00K97C	00450L00K36C	00450L00K55A	00450L01K65A	00450L00K41E
<b>SERIES II SecTER 15/25 kv Class, 14 Gauge Steel Tank</b>													
Single-Phase													
00400L00K72A	30H x 24W x 15D	00400L02K62A	00400L02K51A	00400L02K44A	00400L02K71A	00400L02K26A	00400L02K45A	-	-	-	-	-	-
00400L00K73A	30H x 30W x 18D	00400L02K57A	00400L01K10A	00400L01K44A	00400L02K91A	00400L01K16A	00400L02K55A	-	-	-	-	-	-
Three-Phase													
00450L00K28A	30H x 48W x 15D	00450L01K54A	00450L00K05C	-	00450L00K56B	00450L00K96B	-	-	-	-	-	-	-
00450L00K30A	30H x 60W x 15D	00450L00K89C	00450L00K04C	00450L00K80B	00450L00K66B	00450L00K86B	00450L00K64B	-	-	-	-	-	-
00450L00K29A	30H x 48W x 18D	00450L01K67A	00450L00K63B	-	00450L00K76B	00450L00K81B	-	-	-	-	-	-	-
00450L00K31A	30H x 60W x 18D	00450L00K49D	00450L00K82B	00450L00K83B	00450L00K36A	00450L01K26A	00450L00K54B	-	-	-	-	-	-
Single-Phase													
00400L02K12A	48H x 18W x 18D	00400L01K39P	00400L01K23A	00400L02K61A	00400L02K46N	00400L02K56B	00400L02K64B	-	-	-	-	-	-



Catalog Section	Description	kV Class	Base Part Number	Notes
 1000-05	<b>SERIES I SecTER</b>			
	12 Gauge Steel Tank 1-Phase	15/25/35 kV	<b>00400L00K54A</b> (30H x 24W x 22D)	1
			<b>00400L00K58A</b> (30H x 30W x 22D)	1
			<b>00400L00K62A</b> (30H x 36W x 22D)	1
	12 Gauge Steel Tank 3-Phase	15/25/35 kV	<b>00450L00K02A</b> (30H x 48W x 22D)	1
			<b>00450L00K06A</b> (30H x 66W x 22D)	1
		<b>00450L00K10A</b> (30H x 84W x 22D)	1	
 1000-05	<b>SERIES II SecTER</b>			
	14 Gauge Steel Tank 1-Phase	15 kV	<b>00400L00K72A</b> (30H x 24W x 15D)	1
		15/25 kV	<b>00400L00K73A</b> (30H x 30W x 18D)	1
	14 Gauge Steel Tank 3-Phase	15 kV	<b>00450L00K28A</b> (30H x 48W x 15D)	1
			<b>00450L00K30A</b> (30H x 60W x 15D)	1
		15/25 kV	<b>00450L00K29A</b> (30H x 48W x 18D)	1
		<b>00450L00K31A</b> (30H x 60W x 18D)	1	
 1000-05	<b>SERIES I GROUND SLEEVES</b>			
	Ground Sleeve 1-Phase	15/25/35 kV	<b>00400L00K02G</b> (18H x 24W x 22D) (Fiberglass)	2, 3
			<b>00400L00K05G</b> (30H x 24W x 22D) (Fiberglass)	2, 4
			<b>0400L00K10GM</b> (24H x 24W x 22D) (Steel)	2, 5
	Ground Sleeve 3-Phase	15/25/35 kV	<b>00450L00K04G</b> (18H x 48W x 22D) (Fiberglass)	2, 6
			<b>00450L00K07G</b> (30H x 48W x 22D) (Fiberglass)	2, 7
		<b>0450L00K17GM</b> (24H x 48W x 22D) (Steel)	2, 8	
 1000-05	<b>SERIES II GROUND SLEEVES</b>			
	Ground Sleeve 1-Phase Fiberglass	15/25/35 kV	<b>00400L00K00G</b> (18H x 24W x 15D)	2
			<b>00400L00K01G</b> (18H x 30W x 18D)	2
	Ground Sleeve 3-Phase Fiberglass	15/25/35 kV	<b>00450L00K00G</b> (18H x 48W x 15D)	2
			<b>00450L00K02G</b> (18H x 60W x 15D)	2
			<b>00450L00K01G</b> (18H x 48W x 18D)	2
			<b>00450L00K03G</b> (18H x 60W x 18D)	2
	Ground Sleeve Steel 1-Phase	15/25/35 kV	<b>0400L00K13GM</b> (18H x 24W x 15D)	2
			<b>0400L00K14GM</b> (18H x 30W x 18D)	2
			<b>0400L00K16GM</b> (24H x 30W x 18D)	2
	Ground Sleeve Steel 3-Phase	15/25/35 kV	<b>0450L00K20GM</b> (18H x 48W x 15D)	2, 9
		<b>0450L00K22GM</b> (18H x 48W x 18D)	2, 10	
		<b>0450L00K26GM</b> (24H x 48W x 18D)	2, 11	
 1000-10	<b>SECTIONALIZING PEDESTAL</b>			
	14 Gauge Steel 1-Phase	15/25 kV	<b>00400L02K12A</b> (48H x 18W x 18D)	

Notes:

- For **stainless steel tank** change the "A" in digit 12 to a "S". For **aluminum tank** change the "A" in digit 12 to a "L".
- Width and depth dimensions must be matched to corresponding SecTER dimensions.
- To **change width** of fiberglass ground sleeve, change digit 11 from a "2" to a "3" for **30" width**, to a "4" for **36" width**.
- To **change width** of fiberglass ground sleeve, change digit 11 from a "5" to a "6" for **30" width** and to a "7" for **36" width**.
- To **change width** of steel ground sleeve, change digit 10 from a "0" to a "1" for **30" width** and a "2" for **36" width**.
- To **change width** of fiberglass ground sleeve, change digit 11 from a "4" to a "5" for **66" width** or to a "6" for **84" width**.
- To **change width** of fiberglass ground sleeve, change digit 11 from a "7" to a "8" for **66" width** or to a "9" for **84" width**.
- To **change width** of steel ground sleeve, change digit 10 from a "7" to a "8" for **66" width** or a "9" for **84" width**.
- To **change width** of steel ground sleeve, change digit 10 from a "0" to a "1" for **60" width**.
- To **change width** of steel ground sleeve, change digit 10 from a "2" to a "3" for **60" width**.
- To **change width** of steel ground sleeve, change digit 10 from a "6" to a "7" for **60" width**.

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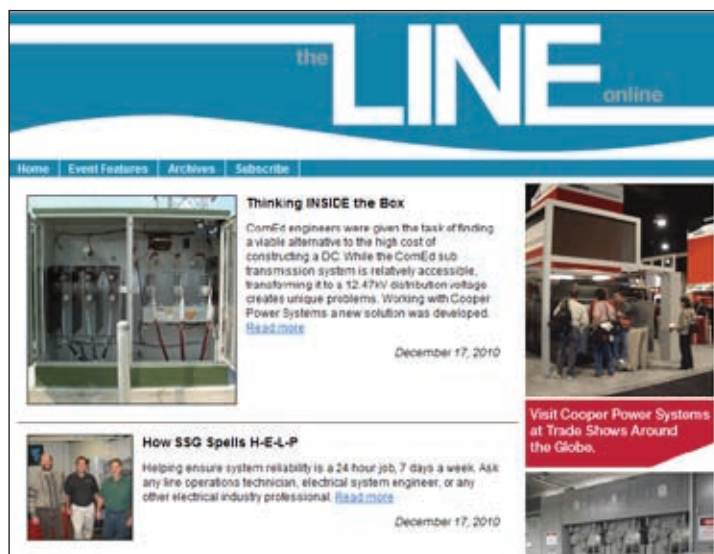
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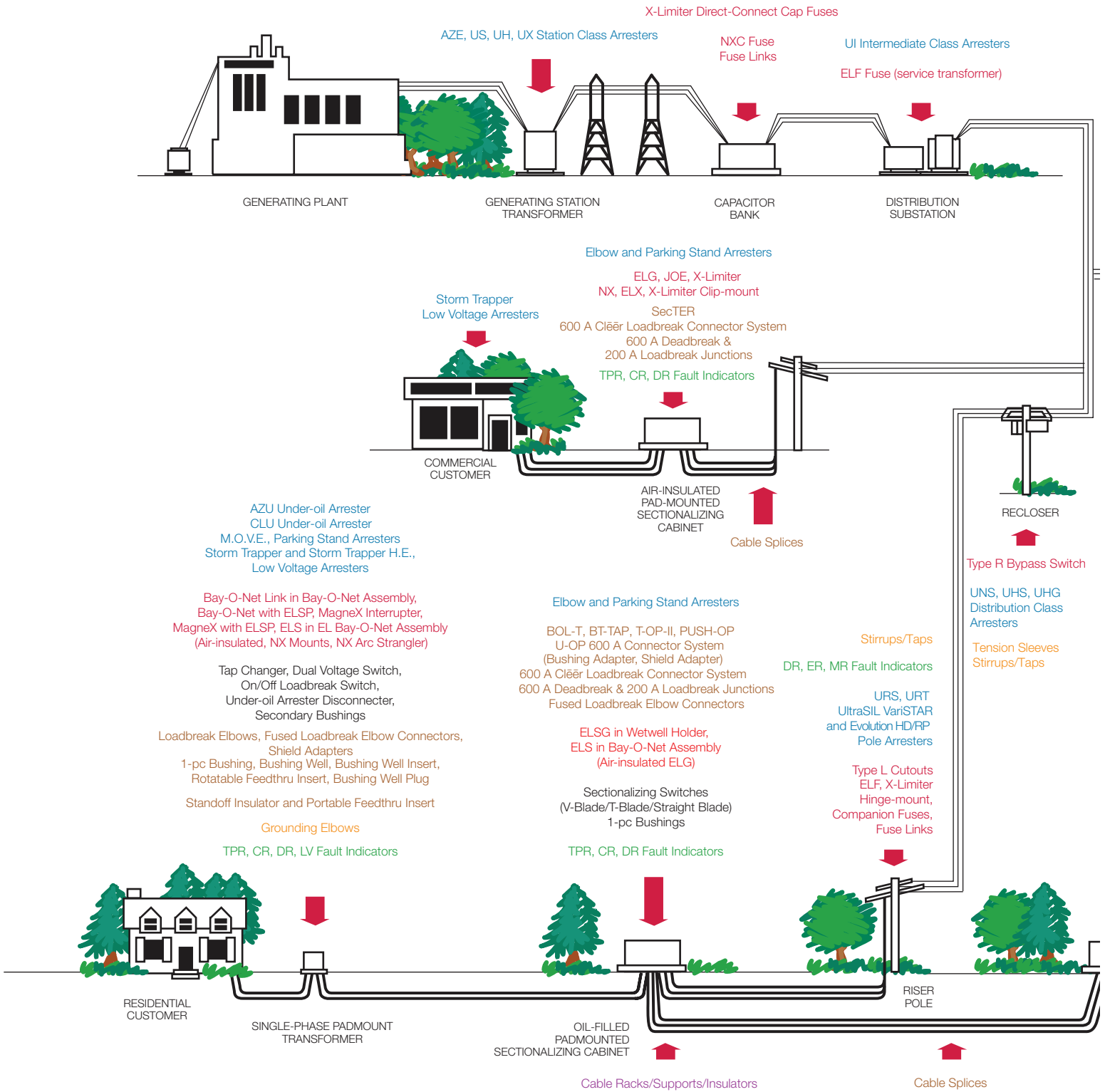
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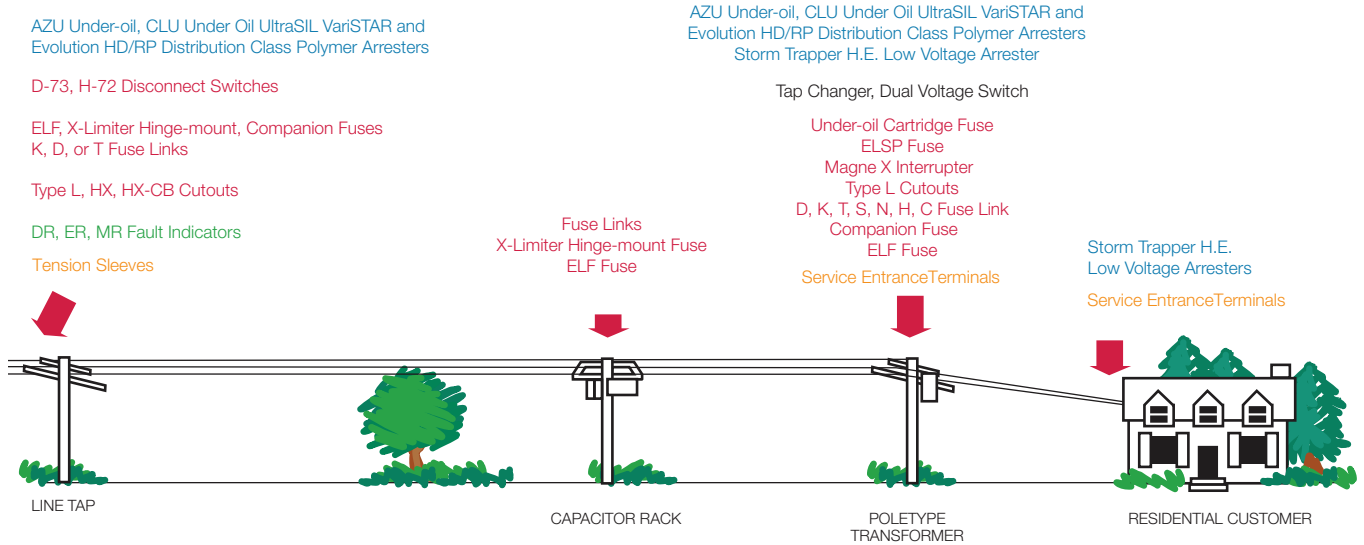


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