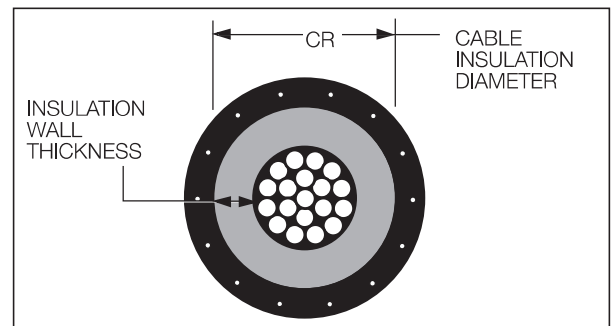


Types of Stranded Conductor



Cable insulation

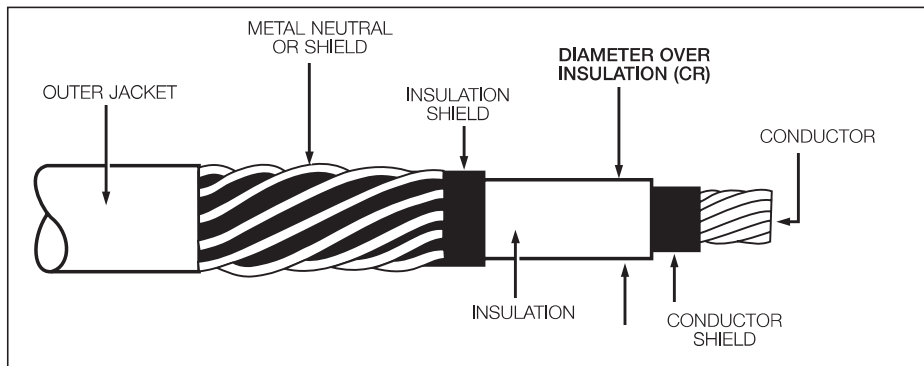


Illustration showing typical construction of medium voltage underground cable.

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 ² 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

Eaton connects underground cable to transformers, sectionalizing cabinets and junctions with its Cooper Power series 200 A 15, 25, and 35 kV loadbreak elbow connectors and accessories which are ideal for submersible, fully-shielded and insulated plug-in terminations. 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

Eaton increases strike distance and improves reliability with its Cooper Power series POSI-BREAK™ elbow and cap. 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 1½" 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*

Eaton's Cooper Power series 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:

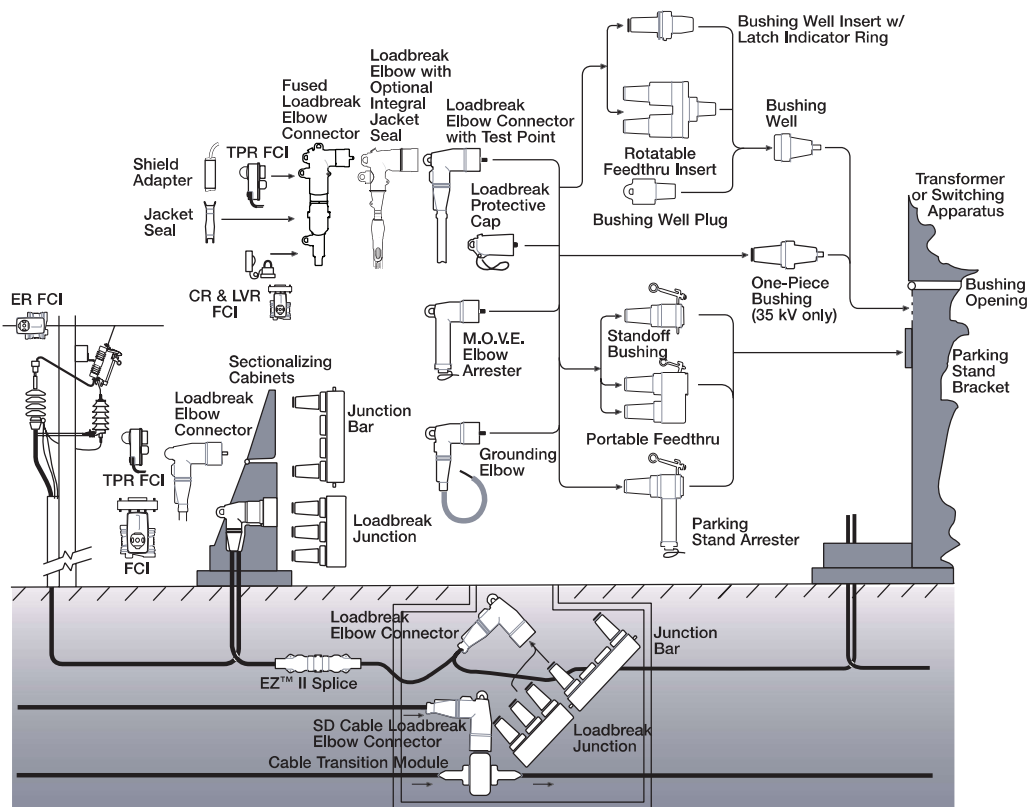
- Increased strike distance to provide greater reliability and overall performance.
- Reliable loadbreak switching and fault closure capability.
- Full line of large interface accessory products.

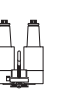
* Refer to bushing section on page 44 for more information on the bushing.

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
 CA650062EN	Loadbreak Elbow	15 kV	LE215 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 2, 4, 5
 CA650062EN	Loadbreak Elbow with Integral Jacket Seal	15 kV	LEJ215 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 2, 3, 4
 CA650098EN	Loadbreak Elbow	25 kV	LE225 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 4, 5
 CA650098EN	Loadbreak Elbow with Integral Jacket Seal	25 kV	LEJ225 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 3, 4
 CA650100EN	POSI-BREAK Loadbreak Elbow	25 kV	PLE225 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 4, 5
 CA650100EN	POSI-BREAK Loadbreak Elbow with Integral Jacket Seal	25 kV	PLEJ225 CR1 CC1 (see CR1 & CC1 Tables Pg. 13)	1, 3, 4
 CA650069EN	Fused Loadbreak Elbow Connector	15 kV	LFEP215TFEC CR3 CC2 AT (see CR3 and CC2 Tables on page 13 (see Table 500-110 on page 13 for Fuse Ratings and Catalog Numbers)	16
 CA650070EN	Fused Loadbreak Elbow Connector	25 kV	LFEP225TFEC CR3 CC2 AT (see CR3 and CC2 Tables on page 13 (see Table 500-110 on page 13 for Fuse Ratings and Catalog Numbers)	16
 CA650068EN	Loadbreak Elbow	35 kV	CA650062EN CR2 CC1 (see CR2 & CC1 Tables Pg. 13)	1, 4, 5
 CA650073EN	Loadbreak Bushing Insert	15 kV	LBI215	4
 CA650074EN	Loadbreak Bushing Insert	25 kV	LBI225	4, 6
 CA650078EN and CA650077EN	Loadbreak Feedthru Insert	15 kV 25 kV	LFI215 LFI225	
 CA650072EN	Loadbreak Portable Feedthru	15 kV horizontal vertical universal	LPF215H LPF215V LPF215U	
 CA650092EN	Loadbreak Portable Feedthru	25 kV horizontal vertical universal	LPF225H LPF225V LPF225U	
 CA650015EN	Loadbreak Portable Feedthru	35 kV horizontal vertical	LPF235H LPF235V	
 CA650102EN (15kV) and CA650081EN (25kV) and CA650014EN (35kV)	Loadbreak Junction	15 kV 25 kV 35 kV	LJ215C _ LJ225C _ LJ235C _	7, 8 7, 8 7, 8
 CA650094EN	Insulated Bushing Well Plug	15/25 kV	IBWP225	
 CA650076EN	Loadbreak Protective Cap	15 kV	LPC215	4

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.
- For **individually packaged** product in a corrugated cardboard box, insert an "X" as the last character in the part number.
- 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.
- 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.
- Fuses sold separately. See Table 500-110 on page 13. Reference Cat. 240-97.

200 A loadbreak & deadbreak connectors

200 A loadbreak & deadbreak connectors

1. For **individually packaged** product in a corrugated cardboard box, insert an "X" as the last character in the part number.
2. To substitute a **stainless steel bracket**, insert a "S" as the last character in the part number.
3. Each **CS Series Cold Shrink Cable Sealing Kit** includes:
(1) Cold Shrinkable Sleeve
(2) Mastic Sealing Strips
(1) Installation Instructions
For use on Concentric Neutral Cable.
4. For use with tape shield, drain wire, linear corrugated and Unishield® cable.
5. 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
6. Probe kit includes probe, installation tool, silicone lubricant and installation instructions.
7. For 200 A loadbreak inserts only.
8. 5 kV cable for use in 15 kV and 25 kV "CC" size elbow only.

(continued from previous page)

Catalog Section	Description	kV Class	Base Part Number	Notes
 CA650085EN	Loadbreak Protective Cap	25 kV	LPC225	1
 CA650083EN	POSI-BREAK Loadbreak Protective Cap	25 kV	PLPC225	1
 CA650087EN	Loadbreak Protective Cap	35 kV	LPC235	1
 CA650089EN	Insulated Standoff Bushing	15 kV	ISB215	2
 CA650004EN	Insulated Standoff Bushing	25 kV	ISB225	2
 CA650088EN	Insulated Standoff Bushing	35 kV	ISB235	2
	SA Series Cold Shrinkable Metallic Shield Adapter Kit	15/25/35 kV	SA CJ2 (see CJ2 Table Pg. 13)	4, 5
	CS Series Cold Shrink Cable Seal Kit	15/25/35 kV	CS CJ1 (see CJ1 Table Pg. 13)	3
	Coppertop Connector 200 A, 2.88" Long Bi-Metal	15/25/35 kV	CC2C CC1 T (see CC1 Table Pg. 13)	
CA650062EN and CA650098EN and CA650100EN and CA650068EN	200 A Loadbreak Probe Kit	15 kV	PK215	6
		25 kV	PK225	6
			PKPB225 (POSI-BREAK)	6
		35 kV	PK235	6
	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
 CA650073EN	Installation and Torque Tool	15/25 kV	LBITOOL	7
 CA650062EN	Cable Adapter, 5 kV 0.495" - 0.585" 0.575" - 0.685"	15/25 kV	CA225A CA225B	8 8
	U-Strap Kit with Hardware (1 strap) for Loadbreak Junction	15 kV	2625439A16B	
		25 kV	2625439A17B	
		35 kV	2637570A01B	
	2-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV	2637172B01BS	
		25 kV	2637160B01BS	
		35 kV	2604688B01B	
	3-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV	2637172B02BS	
		25 kV	2637160B02BS	
		35 kV	2604688B02B	
CA650102EN and CA650081EN and CA650014EN	4-way Stainless Steel Bracket Assembly for Loadbreak Junction	15 kV	2637172B03BS	
		25 kV	2637160B03BS	
		35 kV	2604688B03B	

**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	
0.610-0.820	15.5-20.8	A
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 ²	AWG	mm ²	
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	120	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 ²	AWG	mm ²	
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

* 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
(see Catalog CA650069EN and CA650070EN)

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 _t (A ² s)	Maximum Total I _t (A ² 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.