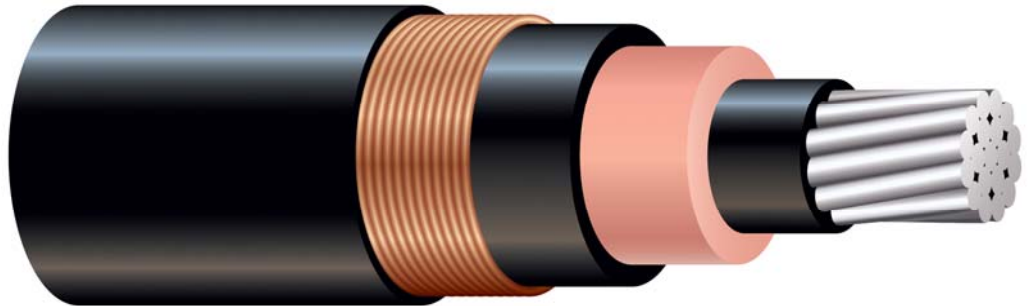


LCT Shielded Primary UD EPR Cable

Aluminum or Copper Conductor. EPR Insulation.
Copper Longitudinal Corrugated Tape Shield (LCT).
Low Density Polyethylene Jacket.



APPLICATIONS

Predominantly used for primary underground distribution in conduit systems; suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. To be used at conductor temperatures not to exceed 105°C for normal operation.

SPECIFICATIONS

Southwire LCT Shielded Primary UD EPR Cable meets or exceeds the following ASTM specifications:

- B3 Soft Annealed Copper Wire.
- B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard or Soft.
- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B231 Aluminum 1350 Conductors, Concentric-Lay-Stranded.
- B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes.

Southwire LCT Shielded Primary UD EPR Cable is manufactured to the latest edition of the following specifications, and in case of specification conflicts, in the order listed:

- ANSI/ICEA S-97-682
- AEIC CS-8
- UL 1072, When Specified

CONSTRUCTION

The cable is composed of a solid moisture blocked reverse lay, compressed stranded soft copper or a solid or moisture blocked reverse lay or unilay compressed stranded 1350-H16/26 aluminum phase conductor, covered by a semi-conducting cross-linked polymer strand shield, an ethylene propylene rubber primary insulation, and a semi-conducting cross-linked polymer insulation shield. Cables are available with either 100% or 133% insulation levels. A copper longitudinal corrugated tape shield and a sunlight resistant, -40°C rated, insulating linear low density polyethylene jacket are applied over the insulation shield. The cable is identified by surface print on the jacket and with the lightning bolt symbol for supply cables indented in the jacket. Red extruded stripes available upon request. A semi-conducting polyethylene jacket is also available upon request.

LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
15kV, 100% Insulation Level - EPR Insulation, 8 mil LCT												
2	Solid	175	24	8	80	258	653	723	973	460	144	117
2	7	175	24	8	80	283	678	748	998	487	146	119
1	Solid	175	24	8	80	289	685	755	1005	501	161	131
1	19	175	24	8	80	322	718	788	1038	522	163	132
1/0	Solid	175	24	8	80	325	720	790	1040	538	182	148
1/0	19	175	24	8	80	352	748	818	1068	566	184	149
2/0	19	175	24	8	80	395	790	860	1110	614	212	172
3/0	19	175	24	8	80	443	838	908	1158	688	242	196
4/0	19	175	24	8	80	498	893	963	1213	760	278	227
250	37	175	24	8	80	558	963	1033	1283	844	305	270
350	37	175	24	8	80	661	1068	1138	1388	1017	368	299
500	37	175	24	8	80	789	1193	1263	1513	1245	449	371
750	61	175	24	8	80	968	1383	1453	1703	1614	549	462
1000	61	175	24	8	110	1117	1530	1600	1916	2033	642	541
1250	91	220	24	8	110	1250	1765	1835	2151	2547	720	619
1500	91	220	24	8	110	1370	1885	1955	2271	2785	780	669
15kV, 100% Insulation Level - EPR Insulation, 10 mil LCT												
2	Solid	175	24	10	80	258	653	723	973	486	144	117
2	7	175	24	10	80	283	678	748	998	516	146	119
1	Solid	175	24	10	80	289	685	755	1005	530	161	131
1	19	175	24	10	80	322	718	788	1038	551	163	132
1/0	Solid	175	24	10	80	325	720	790	1040	567	182	148
1/0	19	175	24	10	80	352	748	818	1068	597	184	149
2/0	19	175	24	10	80	395	790	860	1110	645	212	172
3/0	19	175	24	10	80	443	838	908	1158	723	242	196
4/0	19	175	24	10	80	498	893	963	1213	796	278	227
250	37	175	24	10	80	558	963	1033	1283	880	305	270
350	37	175	24	10	80	661	1068	1138	1388	1057	368	299
500	37	175	24	10	80	789	1193	1263	1513	1289	449	371
750	61	175	24	10	80	968	1383	1453	1703	1663	549	462
1000	61	175	24	10	110	1117	1530	1600	1916	2087	642	541
1250	91	220	24	10	110	1250	1765	1835	2151	2607	720	619
1500	91	220	24	10	110	1370	1885	1955	2271	2849	780	669

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
15kV, 133% Insulation Level - 220 mil EPR Insulation, 8 mil LCT												
2	Solid	220	24	8	80	258	745	815	1065	546	144	117
2	7	220	24	8	80	283	770	840	1090	566	146	119
1	Solid	220	24	8	80	289	778	848	1098	581	161	131
1	19	220	24	8	80	322	810	880	1130	622	163	132
1/0	Solid	220	24	8	80	325	813	883	1133	638	182	148
1/0	19	220	24	8	80	352	840	910	1160	659	184	149
2/0	19	220	24	8	80	395	883	953	1203	710	212	172
3/0	19	220	24	8	80	443	930	1000	1250	770	242	196
4/0	19	220	24	8	80	498	985	1055	1305	857	278	227
250	37	220	24	8	80	558	1055	1125	1375	954	305	270
350	37	220	24	8	80	661	1158	1228	1478	1121	368	299
500	37	220	24	8	80	789	1285	1355	1605	1361	449	371
750	61	220	24	8	110	968	1475	1545	1861	1827	549	462
1000	61	220	24	8	110	1117	1623	1693	2009	2180	642	541
1250	91	220	24	8	110	1250	1765	1835	2151	2547	720	619
1500	91	220	24	8	110	1370	1885	1955	2271	2785	780	669
15kV, 133% Insulation Level - 220 mil EPR Insulation, 10 mil LCT												
2	Solid	220	24	10	80	258	745	815	1065	577	144	117
2	7	220	24	10	80	283	770	840	1090	597	146	119
1	Solid	220	24	10	80	289	778	848	1098	612	161	131
1	19	220	24	10	80	322	810	880	1130	658	163	132
1/0	Solid	220	24	10	80	325	813	883	1133	674	182	148
1/0	19	220	24	10	80	352	840	910	1160	695	184	149
2/0	19	220	24	10	80	395	883	953	1203	746	212	172
3/0	19	220	24	10	80	443	930	1000	1250	806	242	196
4/0	19	220	24	10	80	498	985	1055	1305	896	278	227
250	37	220	24	10	80	558	1055	1125	1375	994	305	270
350	37	220	24	10	80	661	1158	1228	1478	1163	368	299
500	37	220	24	10	80	789	1285	1355	1605	1406	449	371
750	61	220	24	10	110	968	1475	1545	1861	1879	549	462
1000	61	220	24	10	110	1117	1623	1693	2009	2236	642	541
1250	91	220	24	10	110	1250	1765	1835	2151	2607	720	619
1500	91	220	24	10	110	1370	1885	1955	2271	2849	780	669

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
25kV, 100% Insulation Level - 260 mil EPR Insulation, 8 mil LCT												
1	Solid	260	24	8	80	289	850	920	1170	659	161	131
1	19	260	24	8	80	322	880	950	1200	683	163	132
1/0	Solid	260	24	8	80	325	885	955	1205	701	182	148
1/0	19	260	24	8	80	352	910	980	1230	721	184	149
2/0	19	260	24	8	80	395	955	1025	1275	777	212	172
3/0	19	260	24	8	80	443	1003	1073	1323	850	242	196
4/0	19	260	24	8	80	498	1058	1128	1378	936	278	227
250	37	260	24	8	80	558	1128	1198	1448	1030	305	270
350	37	260	24	8	80	661	1230	1300	1550	1213	368	299
500	37	260	24	8	80	789	1358	1428	1678	1464	449	371
750	61	260	24	8	110	968	1548	1618	1934	1936	549	462
1000	61	260	24	8	110	1117	1693	1763	2079	2303	642	541
1250	91	260	24	8	110	1250	1838	1908	2224	2677	720	619
1500	91	260	24	8	110	1370	1958	2028	2344	2920	780	669
25kV, 100% Insulation Level - 260 mil EPR Insulation, 10 mil LCT												
1	Solid	260	24	10	80	289	850	920	1170	694	161	131
1	19	260	24	10	80	322	880	950	1200	718	163	132
1/0	Solid	260	24	10	80	325	885	955	1205	736	182	148
1/0	19	260	24	10	80	352	910	980	1230	757	184	149
2/0	19	260	24	10	80	395	955	1025	1275	812	212	172
3/0	19	260	24	10	80	443	1003	1073	1323	889	242	196
4/0	19	260	24	10	80	498	1058	1128	1378	976	278	227
250	37	260	24	10	80	558	1128	1198	1448	1070	305	270
350	37	260	24	10	80	661	1230	1300	1550	1257	368	299
500	37	260	24	10	80	789	1358	1428	1678	1513	449	371
750	61	260	24	10	110	968	1548	1618	1934	1989	549	462
1000	61	260	24	10	110	1117	1693	1763	2079	2362	642	541
1250	91	260	24	10	110	1250	1838	1908	2224	2740	720	619
1500	91	260	24	10	110	1370	1958	2028	2344	2985	780	669

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.

LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
28kV, 100% Insulation Level - 280 mil EPR Insulation, 8 mil LCT												
1	Solid	280	24	8	80	289	890	960	1210	694	161	131
1	19	280	24	8	80	322	923	993	1243	721	163	132
1/0	Solid	280	24	8	80	325	925	995	1245	737	182	148
1/0	19	280	24	8	80	352	953	1023	1273	760	184	149
2/0	19	280	24	8	80	395	995	1065	1315	827	212	172
3/0	19	280	24	8	80	443	1043	1113	1363	897	242	196
4/0	19	280	24	8	80	498	1098	1168	1418	978	278	227
250	37	280	24	8	80	558	1168	1238	1488	1081	305	270
350	37	280	24	8	80	661	1273	1343	1593	1269	368	299
500	37	280	24	8	80	789	1398	1468	1718	1516	449	371
750	61	280	24	8	110	968	1588	1658	1974	1995	549	462
1000	61	280	24	8	110	1117	1735	1805	2121	2371	642	541
1250	91	280	24	8	110	1250	1878	1948	2264	2753	720	619
1500	91	280	24	8	110	1370	1998	2068	2384	3000	780	669
28kV, 100% Insulation Level - 280 mil EPR Insulation, 10 mil LCT												
1	Solid	280	24	10	80	289	890	960	1210	730	161	131
1	19	280	24	10	80	322	923	993	1243	756	163	132
1/0	Solid	280	24	10	80	325	925	995	1245	773	182	148
1/0	19	280	24	10	80	352	953	1023	1273	796	184	149
2/0	19	280	24	10	80	395	995	1065	1315	865	212	172
3/0	19	280	24	10	80	443	1043	1113	1363	937	242	196
4/0	19	280	24	10	80	498	1098	1168	1418	1018	278	227
250	37	280	24	10	80	558	1168	1238	1488	1123	305	270
350	37	280	24	10	80	661	1273	1343	1593	1315	368	299
500	37	280	24	10	80	789	1398	1468	1718	1565	449	371
750	61	280	24	10	110	968	1588	1658	1974	2049	549	462
1000	61	280	24	10	110	1117	1735	1805	2121	2430	642	541
1250	91	280	24	10	110	1250	1878	1948	2264	2817	720	619
1500	91	280	24	10	110	1370	1998	2068	2384	3067	780	669

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
35kV, 100% Insulation Level - 345 mil EPR Insulation, 8 mil LCT												
1/0	Solid	345	24	8	80	325	1060	1130	1380	886	182	148
1/0	19	345	24	8	80	352	1085	1155	1405	910	184	149
2/0	19	345	24	8	80	395	1130	1200	1450	972	212	172
3/0	19	345	24	8	80	443	1175	1245	1495	1055	242	196
4/0	19	345	24	8	80	498	1230	1300	1550	1142	278	227
250	37	345	24	8	80	558	1300	1370	1620	1259	305	270
350	37	345	24	8	80	661	1405	1475	1725	1450	368	299
500	37	345	24	8	110	789	1530	1600	1916	1793	449	371
750	61	345	24	8	110	968	1720	1790	2106	2224	549	462
1000	61	345	24	8	110	1117	1868	1938	2254	2613	642	541
1250	91	345	24	8	110	1250	2013	2083	2399	3008	720	619
35kV, 100% Insulation Level - 345 mil EPR Insulation, 10 mil LCT												
1/0	Solid	345	24	10	80	325	1060	1130	1380	926	182	148
1/0	19	345	24	10	80	352	1085	1155	1405	950	184	149
2/0	19	345	24	10	80	395	1130	1200	1450	1012	212	172
3/0	19	345	24	10	80	443	1175	1245	1495	1099	242	196
4/0	19	345	24	10	80	498	1230	1300	1550	1186	278	227
250	37	345	24	10	80	558	1300	1370	1620	1306	305	270
350	37	345	24	10	80	661	1405	1475	1725	1499	368	299
500	37	345	24	10	110	789	1530	1600	1916	1846	449	371
750	61	345	24	10	110	968	1720	1790	2106	2283	549	462
1000	61	345	24	10	110	1117	1868	1938	2254	2677	642	541
1250	91	345	24	10	110	1250	2013	2083	2399	3075	720	619
+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.												



LCT Shielded Primary UD EPR

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
46kV, 100% Insulation Level - 445 mil EPR Insulation, 8 mil LCT												
350	37	445	24	8	110	661	1600	1670	1986	1829	368	299
500	37	445	24	8	110	789	1725	1795	2111	2114	449	371
750	61	445	24	8	110	968	1915	1985	2301	2580	549	462
1000	61	445	24	8	110	1117	2063	2133	2449	2985	642	541
46kV, 100% Insulation Level - 445 mil EPR Insulation, 10 mil LCT												
350	37	445	24	10	110	661	1600	1670	1986	1884	368	299
500	37	445	24	10	110	789	1725	1795	2111	2173	449	371
750	61	445	24	10	110	968	1915	1985	2301	2645	549	462
1000	61	445	24	10	110	1117	2063	2133	2449	3054	642	541
+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.												



LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
15kV, 100% Insulation Level - EPR Insulation, 8 mil LCT												
2	Solid	175	24	8	80	258	653	723	973	600	186	151
2	7	175	24	8	80	283	678	748	998	630	188	153
1	Solid	175	24	8	80	289	685	755	1005	678	207	168
1	19	175	24	8	80	322	718	788	1038	702	210	170
1/0	Solid	175	24	8	80	325	720	790	1040	761	234	190
1/0	19	175	24	8	80	362	758	828	1078	801	237	192
2/0	19	175	24	8	80	405	800	870	1120	908	273	222
3/0	19	175	24	8	80	456	853	923	1173	1061	312	252
4/0	19	175	24	8	80	512	908	978	1228	1228	358	291
250	37	175	24	8	80	558	963	1033	1283	1382	391	347
350	37	175	24	8	80	661	1068	1138	1388	1770	471	383
500	37	175	24	8	80	789	1193	1263	1513	2320	571	472
750	61	175	24	8	80	968	1383	1453	1703	3227	689	579
1000	61	175	24	8	110	1117	1530	1600	1916	4184	789	666
1250	91	220	24	8	110	1250	1765	1835	2151	5235	871	748
15kV, 100% Insulation Level - EPR Insulation, 10 mil LCT												
2	Solid	175	24	10	80	258	653	723	973	626	186	151
2	7	175	24	10	80	283	678	748	998	659	188	153
1	Solid	175	24	10	80	289	685	755	1005	706	207	168
1	19	175	24	10	80	322	718	788	1038	731	210	170
1/0	Solid	175	24	10	80	325	720	790	1040	790	234	190
1/0	19	175	24	10	80	362	758	828	1078	832	237	192
2/0	19	175	24	10	80	405	800	870	1120	939	273	222
3/0	19	175	24	10	80	456	853	923	1173	1097	312	252
4/0	19	175	24	10	80	512	908	978	1228	1264	358	291
250	37	175	24	10	80	558	963	1033	1283	1418	391	347
350	37	175	24	10	80	661	1068	1138	1388	1810	471	383
500	37	175	24	10	80	789	1193	1263	1513	2364	571	472
750	61	175	24	10	80	968	1383	1453	1703	3276	689	579
1000	61	175	24	10	110	1117	1530	1600	1916	4237	789	666
1250	91	220	24	10	110	1250	1765	1835	2151	5295	871	748

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
15kV, 133% Insulation Level - 220 mil EPR Insulation, 8 mil LCT												
2	Solid	220	24	8	80	258	745	815	1065	686	186	151
2	7	220	24	8	80	283	770	840	1090	709	188	153
1	Solid	220	24	8	80	289	778	848	1098	757	207	168
1	19	220	24	8	80	322	810	880	1130	802	210	170
1/0	Solid	220	24	8	80	325	813	883	1133	861	234	190
1/0	19	220	24	8	80	362	850	920	1170	895	237	192
2/0	19	220	24	8	80	405	893	963	1213	1005	273	222
3/0	19	220	24	8	80	456	943	1013	1263	1143	312	252
4/0	19	220	24	8	80	512	1000	1070	1320	1327	358	291
250	37	220	24	8	80	558	1055	1125	1375	1491	391	347
350	37	220	24	8	80	661	1158	1228	1478	1874	471	383
500	37	220	24	8	80	789	1285	1355	1605	2436	571	472
750	61	220	24	8	110	968	1475	1545	1861	3440	689	579
1000	61	220	24	8	110	1117	1623	1693	2009	4330	789	666
1250	91	220	24	8	110	1250	1765	1835	2151	5235	871	748
15kV, 133% Insulation Level - 220 mil EPR Insulation, 10 mil LCT												
2	Solid	220	24	10	80	258	745	815	1065	717	186	151
2	7	220	24	10	80	283	770	840	1090	740	188	153
1	Solid	220	24	10	80	289	778	848	1098	788	207	168
1	19	220	24	10	80	322	810	880	1130	838	210	170
1/0	Solid	220	24	10	80	325	813	883	1133	897	234	190
1/0	19	220	24	10	80	362	850	920	1170	930	237	192
2/0	19	220	24	10	80	405	893	963	1213	1041	273	222
3/0	19	220	24	10	80	456	943	1013	1263	1178	312	252
4/0	19	220	24	10	80	512	1000	1070	1320	1365	358	291
250	37	220	24	10	80	558	1055	1125	1375	1531	391	347
350	37	220	24	10	80	661	1158	1228	1478	1916	471	383
500	37	220	24	10	80	789	1285	1355	1605	2481	571	472
750	61	220	24	10	110	968	1475	1545	1861	3492	689	579
1000	61	220	24	10	110	1117	1623	1693	2009	4386	789	666
1250	91	220	24	10	110	1250	1765	1835	2151	5295	871	748

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
25kV, 100% Insulation Level - 260 mil EPR Insulation, 8 mil LCT												
1	Solid	260	24	8	80	289	850	920	1170	835	207	168
1	19	260	24	8	80	322	880	950	1200	863	210	170
1/0	Solid	260	24	8	80	325	885	955	1205	923	234	190
1/0	19	260	24	8	80	362	920	990	1240	957	237	192
2/0	19	260	24	8	80	405	965	1035	1285	1072	273	222
3/0	19	260	24	8	80	456	1015	1085	1335	1224	312	252
4/0	19	260	24	8	80	512	1070	1140	1390	1405	358	291
250	37	260	24	8	80	558	1128	1198	1448	1568	391	347
350	37	260	24	8	80	661	1230	1300	1550	1965	471	383
500	37	260	24	8	80	789	1358	1428	1678	2539	571	472
750	61	260	24	8	110	968	1548	1618	1934	3548	689	579
1000	61	260	24	8	110	1117	1693	1763	2079	4454	789	666
1250	91	260	24	8	110	1250	1838	1908	2224	5365	871	748
25kV, 100% Insulation Level - 260 mil EPR Insulation, 10 mil LCT												
1	Solid	260	24	10	80	289	850	920	1170	871	207	168
1	19	260	24	10	80	322	880	950	1200	898	210	170
1/0	Solid	260	24	10	80	325	885	955	1205	959	234	190
1/0	19	260	24	10	80	362	920	990	1240	993	237	192
2/0	19	260	24	10	80	405	965	1035	1285	1108	273	222
3/0	19	260	24	10	80	456	1015	1085	1335	1262	312	252
4/0	19	260	24	10	80	512	1070	1140	1390	1445	358	291
250	37	260	24	10	80	558	1128	1198	1448	1608	391	347
350	37	260	24	10	80	661	1230	1300	1550	2009	471	383
500	37	260	24	10	80	789	1358	1428	1678	2588	571	472
750	61	260	24	10	110	968	1548	1618	1934	3602	689	579
1000	61	260	24	10	110	1117	1693	1763	2079	4512	789	666
1250	91	260	24	10	110	1250	1838	1908	2224	5427	871	748

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
28kV, 100% Insulation Level - 280 mil EPR Insulation, 8 mil LCT												
1	Solid	280	24	8	80	289	890	960	1210	871	207	168
1	19	280	24	8	80	322	923	993	1243	901	210	170
1/0	Solid	280	24	8	80	325	925	995	1245	960	234	190
1/0	19	280	24	8	80	362	963	1033	1283	997	237	192
2/0	19	280	24	8	80	405	1005	1075	1325	1122	273	222
3/0	19	280	24	8	80	456	1058	1128	1378	1273	312	252
4/0	19	280	24	8	80	512	1113	1183	1433	1449	358	291
250	37	280	24	8	80	558	1168	1238	1488	1619	391	347
350	37	280	24	8	80	661	1273	1343	1593	2022	471	383
500	37	280	24	8	80	789	1398	1468	1718	2591	571	472
750	61	280	24	8	110	968	1588	1658	1974	3608	689	579
1000	61	280	24	8	110	1117	1735	1805	2121	4521	789	666
1250	91	280	24	8	110	1250	1878	1948	2264	5441	871	748
28kV, 100% Insulation Level - 280 mil EPR Insulation, 10 mil LCT												
1	Solid	280	24	10	80	289	890	960	1210	906	207	168
1	19	280	24	10	80	322	923	993	1243	936	210	170
1/0	Solid	280	24	10	80	325	925	995	1245	995	234	190
1/0	19	280	24	10	80	362	963	1033	1283	1032	237	192
2/0	19	280	24	10	80	405	1005	1075	1325	1161	273	222
3/0	19	280	24	10	80	456	1058	1128	1378	1313	312	252
4/0	19	280	24	10	80	512	1113	1183	1433	1489	358	291
250	37	280	24	10	80	558	1168	1238	1488	1660	391	347
350	37	280	24	10	80	661	1273	1343	1593	2068	471	383
500	37	280	24	10	80	789	1398	1468	1718	2640	571	472
750	61	280	24	10	110	968	1588	1658	1974	3661	689	579
1000	61	280	24	10	110	1117	1735	1805	2121	4580	789	666
1250	91	280	24	10	110	1250	1878	1948	2264	5505	871	748

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.



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LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
35kV, 100% Insulation Level - 345 mil EPR Insulation, 8 mil LCT												
1/0	Solid	345	24	8	80	325	1060	1130	1380	1109	234	190
1/0	19	345	24	8	80	362	1095	1165	1415	1148	237	192
2/0	19	345	24	8	80	405	1140	1210	1460	1276	273	222
3/0	19	345	24	8	80	456	1190	1260	1510	1432	312	252
4/0	19	345	24	8	80	512	1245	1315	1565	1621	358	291
250	37	345	24	8	80	558	1300	1370	1620	1796	391	347
350	37	345	24	8	80	661	1405	1475	1725	2202	471	383
500	37	345	24	8	110	789	1530	1600	1916	2868	571	472
750	61	345	24	8	110	968	1720	1790	2106	3837	689	579
1000	61	345	24	8	110	1117	1868	1938	2254	4763	789	666
1250	91	345	24	8	110	1250	2013	2083	2399	5695	871	748
35kV, 100% Insulation Level - 345 mil EPR Insulation, 10 mil LCT												
1/0	Solid	345	24	10	80	325	1060	1130	1380	1149	234	190
1/0	19	345	24	10	80	362	1095	1165	1415	1188	237	192
2/0	19	345	24	10	80	405	1140	1210	1460	1318	273	222
3/0	19	345	24	10	80	456	1190	1260	1510	1476	312	252
4/0	19	345	24	10	80	512	1245	1315	1565	1667	358	291
250	37	345	24	10	80	558	1300	1370	1620	1844	391	347
350	37	345	24	10	80	661	1405	1475	1725	2251	471	383
500	37	345	24	10	110	789	1530	1600	1916	2921	571	472
750	61	345	24	10	110	968	1720	1790	2106	3896	689	579
1000	61	345	24	10	110	1117	1868	1938	2254	4827	789	666
1250	91	345	24	10	110	1250	2013	2083	2399	5762	871	748

+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.

LCT Shielded Primary UD EPR

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Nominal Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul.	Over Insul. Shield	Over Jkt.		Direct Burial	In Duct
46kV, 100% Insulation Level - 445 mil EPR Insulation, 8 mil LCT												
350	37	445	24	8	110	661	1600	1670	1986	2581	471	383
500	37	445	24	8	110	789	1725	1795	2111	3189	571	472
750	61	445	24	8	110	968	1915	1985	2301	4192	689	579
1000	61	445	24	8	110	1117	2063	2133	2449	5135	789	666
46kV, 100% Insulation Level - 445 mil EPR Insulation, 10 mil LCT												
350	37	445	24	10	110	661	1600	1670	1986	2637	471	383
500	37	445	24	10	110	789	1725	1795	2111	3248	571	472
750	61	445	24	10	110	968	1915	1985	2301	4258	689	579
1000	61	445	24	10	110	1117	2063	2133	2449	5204	789	666
+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400.												

