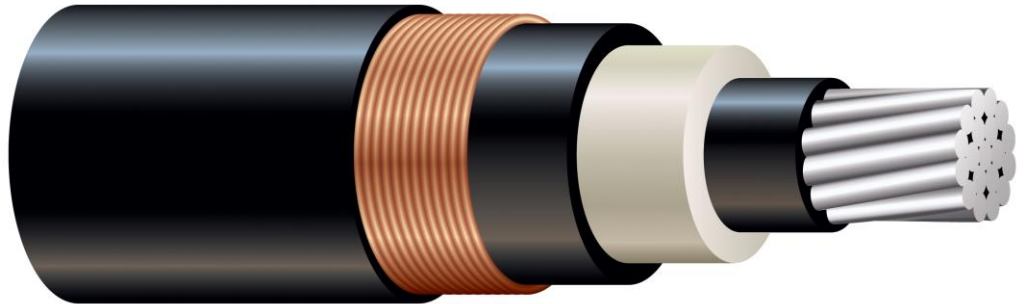


LCT Shielded Primary UD TRXLP Cable

Aluminum or Copper Conductor. TRXLP 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 90°C for normal operation.

SPECIFICATIONS

Southwire LCT Shielded HI-DRI Primary UD TRXLP 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 HI-DRI Primary UD TRXLP 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 or 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, a tree-retardant cross-linked polyethylene 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 TRXLP

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 - TRXLP Insulation, 8 mil LCT												
2	Solid	175	24	8	80	258	653	723	973	427	144	117
2	7	175	24	8	80	283	678	748	998	453	146	119
1	Solid	175	24	8	80	289	685	755	1005	466	161	131
1	19	175	24	8	80	322	718	788	1038	485	163	132
1/0	Solid	175	24	8	80	325	720	790	1040	501	182	148
1/0	19	175	24	8	80	352	748	818	1068	527	184	149
2/0	19	175	24	8	80	395	790	860	1110	572	212	172
3/0	19	175	24	8	80	443	838	908	1158	642	242	196
4/0	19	175	24	8	80	498	893	963	1213	711	278	227
250	37	175	24	8	80	558	963	1033	1283	790	305	270
350	37	175	24	8	80	661	1068	1138	1388	956	368	299
500	37	175	24	8	80	789	1193	1263	1513	1175	449	371
750	61	175	24	8	80	968	1383	1453	1703	1530	549	462
1000	61	175	24	8	110	1117	1530	1600	1916	1940	642	541
1250	91	220	24	8	110	1250	1765	1835	2151	2414	720	619
1500	91	220	24	8	110	1370	1885	1955	2271	2641	780	669
15kV, 100% Insulation Level - TRXLP Insulation, 10 mil LCT												
2	Solid	175	24	10	80	258	653	723	973	454	144	117
2	7	175	24	10	80	283	678	748	998	482	146	119
1	Solid	175	24	10	80	289	685	755	1005	495	161	131
1	19	175	24	10	80	322	718	788	1038	514	163	132
1/0	Solid	175	24	10	80	325	720	790	1040	530	182	148
1/0	19	175	24	10	80	352	748	818	1068	558	184	149
2/0	19	175	24	10	80	395	790	860	1110	603	212	172
3/0	19	175	24	10	80	443	838	908	1158	678	242	196
4/0	19	175	24	10	80	498	893	963	1213	746	278	227
250	37	175	24	10	80	558	963	1033	1283	826	305	270
350	37	175	24	10	80	661	1068	1138	1388	996	368	299
500	37	175	24	10	80	789	1193	1263	1513	1219	449	371
750	61	175	24	10	80	968	1383	1453	1703	1579	549	462
1000	61	175	24	10	110	1117	1530	1600	1916	1993	642	541
1250	91	220	24	10	110	1250	1765	1835	2151	2474	720	619
1500	91	220	24	10	110	1370	1885	1955	2271	2704	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.



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 Carrollton, GA 30119 USA
 770/832-4242
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LCT Shielded Primary UD TRXLP

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 TRXLP Insulation, 8 mil LCT												
2	Solid	220	24	8	80	258	745	815	1065	501	144	117
2	7	220	24	8	80	283	770	840	1090	519	146	119
1	Solid	220	24	8	80	289	778	848	1098	533	161	131
1	19	220	24	8	80	322	810	880	1130	572	163	132
1/0	Solid	220	24	8	80	325	813	883	1133	588	182	148
1/0	19	220	24	8	80	352	840	910	1160	606	184	149
2/0	19	220	24	8	80	395	883	953	1203	653	212	172
3/0	19	220	24	8	80	443	930	1000	1250	709	242	196
4/0	19	220	24	8	80	498	985	1055	1305	792	278	227
250	37	220	24	8	80	558	1055	1125	1375	882	305	270
350	37	220	24	8	80	661	1158	1228	1478	1041	368	299
500	37	220	24	8	80	789	1285	1355	1605	1269	449	371
750	61	220	24	8	110	968	1475	1545	1861	1718	549	462
1000	61	220	24	8	110	1117	1623	1693	2009	2059	642	541
1250	91	220	24	8	110	1250	1765	1835	2151	2414	720	619
1500	91	220	24	8	110	1370	1885	1955	2271	2641	780	669
15kV, 133% Insulation Level - 220 mil TRXLP Insulation, 10 mil LCT												
2	Solid	220	24	10	80	258	745	815	1065	532	144	117
2	7	220	24	10	80	283	770	840	1090	550	146	119
1	Solid	220	24	10	80	289	778	848	1098	564	161	131
1	19	220	24	10	80	322	810	880	1130	607	163	132
1/0	Solid	220	24	10	80	325	813	883	1133	623	182	148
1/0	19	220	24	10	80	352	840	910	1160	642	184	149
2/0	19	220	24	10	80	395	883	953	1203	689	212	172
3/0	19	220	24	10	80	443	930	1000	1250	745	242	196
4/0	19	220	24	10	80	498	985	1055	1305	830	278	227
250	37	220	24	10	80	558	1055	1125	1375	922	305	270
350	37	220	24	10	80	661	1158	1228	1478	1082	368	299
500	37	220	24	10	80	789	1285	1355	1605	1314	449	371
750	61	220	24	10	110	968	1475	1545	1861	1771	549	462
1000	61	220	24	10	110	1117	1623	1693	2009	2115	642	541
1250	91	220	24	10	110	1250	1765	1835	2151	2474	720	619
1500	91	220	24	10	110	1370	1885	1955	2271	2704	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
1	Solid	260	24	8	80	289	850	920	1170	600	161	131
1	19	260	24	8	80	322	880	950	1200	621	163	132
1/0	Solid	260	24	8	80	325	885	955	1205	638	182	148
1/0	19	260	24	8	80	352	910	980	1230	656	184	149
2/0	19	260	24	8	80	395	955	1025	1275	707	212	172
3/0	19	260	24	8	80	443	1003	1073	1323	776	242	196
4/0	19	260	24	8	80	498	1058	1128	1378	857	278	227
250	37	260	24	8	80	558	1128	1198	1448	943	305	270
350	37	260	24	8	80	661	1230	1300	1550	1116	368	299
500	37	260	24	8	80	789	1358	1428	1678	1354	449	371
750	61	260	24	8	110	968	1548	1618	1934	1806	549	462
1000	61	260	24	8	110	1117	1693	1763	2079	2160	642	541
1250	91	260	24	8	110	1250	1838	1908	2224	2519	720	619
1500	91	260	24	8	110	1370	1958	2028	2344	2749	780	669
25kV, 100% Insulation Level - 260 mil TRXLP Insulation, 10 mil LCT												
1	Solid	260	24	10	80	289	850	920	1170	635	161	131
1	19	260	24	10	80	322	880	950	1200	656	163	132
1/0	Solid	260	24	10	80	325	885	955	1205	674	182	148
1/0	19	260	24	10	80	352	910	980	1230	692	184	149
2/0	19	260	24	10	80	395	955	1025	1275	743	212	172
3/0	19	260	24	10	80	443	1003	1073	1323	814	242	196
4/0	19	260	24	10	80	498	1058	1128	1378	897	278	227
250	37	260	24	10	80	558	1128	1198	1448	983	305	270
350	37	260	24	10	80	661	1230	1300	1550	1159	368	299
500	37	260	24	10	80	789	1358	1428	1678	1403	449	371
750	61	260	24	10	110	968	1548	1618	1934	1859	549	462
1000	61	260	24	10	110	1117	1693	1763	2079	2219	642	541
1250	91	260	24	10	110	1250	1838	1908	2224	2581	720	619
1500	91	260	24	10	110	1370	1958	2028	2344	2815	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.



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LCT Shielded Primary UD TRXLP

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 TRXLP Insulation, 8 mil LCT												
1	Solid	280	24	8	80	289	890	960	1210	628	161	131
1	19	280	24	8	80	322	923	993	1243	652	163	132
1/0	Solid	280	24	8	80	325	925	995	1245	668	182	148
1/0	19	280	24	8	80	352	953	1023	1273	688	184	149
2/0	19	280	24	8	80	395	995	1065	1315	750	212	172
3/0	19	280	24	8	80	443	1043	1113	1363	815	242	196
4/0	19	280	24	8	80	498	1098	1168	1418	890	278	227
250	37	280	24	8	80	558	1168	1238	1488	986	305	270
350	37	280	24	8	80	661	1273	1343	1593	1162	368	299
500	37	280	24	8	80	789	1398	1468	1718	1395	449	371
750	61	280	24	8	110	968	1588	1658	1974	1854	549	462
1000	61	280	24	8	110	1117	1735	1805	2121	2214	642	541
1250	91	280	24	8	110	1250	1878	1948	2264	2581	720	619
1500	91	280	24	8	110	1370	1998	2068	2384	2814	780	669
28kV, 100% Insulation Level - 280 mil TRXLP Insulation, 10 mil LCT												
1	Solid	280	24	10	80	289	890	960	1210	664	161	131
1	19	280	24	10	80	322	923	993	1243	687	163	132
1/0	Solid	280	24	10	80	325	925	995	1245	703	182	148
1/0	19	280	24	10	80	352	953	1023	1273	724	184	149
2/0	19	280	24	10	80	395	995	1065	1315	788	212	172
3/0	19	280	24	10	80	443	1043	1113	1363	855	242	196
4/0	19	280	24	10	80	498	1098	1168	1418	930	278	227
250	37	280	24	10	80	558	1168	1238	1488	1027	305	270
350	37	280	24	10	80	661	1273	1343	1593	1208	368	299
500	37	280	24	10	80	789	1398	1468	1718	1444	449	371
750	61	280	24	10	110	968	1588	1658	1974	1907	549	462
1000	61	280	24	10	110	1117	1735	1805	2121	2273	642	541
1250	91	280	24	10	110	1250	1878	1948	2264	2644	720	619
1500	91	280	24	10	110	1370	1998	2068	2384	2881	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
1/0	Solid	345	24	8	80	325	1060	1130	1380	792	182	148
1/0	19	345	24	8	80	352	1085	1155	1405	812	184	149
2/0	19	345	24	8	80	395	1130	1200	1450	868	212	172
3/0	19	345	24	8	80	443	1175	1245	1495	945	242	196
4/0	19	345	24	8	80	498	1230	1300	1550	1025	278	227
250	37	345	24	8	80	558	1300	1370	1620	1132	305	270
350	37	345	24	8	80	661	1405	1475	1725	1309	368	299
500	37	345	24	8	110	789	1530	1600	1916	1635	449	371
750	61	345	24	8	110	968	1720	1790	2106	2041	549	462
1000	61	345	24	8	110	1117	1868	1938	2254	2411	642	541
1250	91	345	24	8	110	1250	2013	2083	2399	2785	720	619
35kV, 100% Insulation Level - 345 mil TRXLP Insulation, 10 mil LCT												
1/0	Solid	345	24	10	80	325	1060	1130	1380	832	182	148
1/0	19	345	24	10	80	352	1085	1155	1405	852	184	149
2/0	19	345	24	10	80	395	1130	1200	1450	908	212	172
3/0	19	345	24	10	80	443	1175	1245	1495	989	242	196
4/0	19	345	24	10	80	498	1230	1300	1550	1069	278	227
250	37	345	24	10	80	558	1300	1370	1620	1179	305	270
350	37	345	24	10	80	661	1405	1475	1725	1358	368	299
500	37	345	24	10	110	789	1530	1600	1916	1689	449	371
750	61	345	24	10	110	968	1720	1790	2106	2100	549	462
1000	61	345	24	10	110	1117	1868	1938	2254	2474	642	541
1250	91	345	24	10	110	1250	2013	2083	2399	2852	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.



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 Carrollton, GA 30119 USA
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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 TRXLP Insulation, 8 mil LCT												
350	37	445	24	8	110	661	1600	1670	1986	1632	368	299
500	37	445	24	8	110	789	1725	1795	2111	1896	449	371
750	61	445	24	8	110	968	1915	1985	2301	2329	549	462
1000	61	445	24	8	110	1117	2063	2133	2449	2710	642	541
46kV, 100% Insulation Level - 445 mil TRXLP Insulation, 10 mil LCT												
350	37	445	24	10	110	661	1600	1670	1986	1688	368	299
500	37	445	24	10	110	789	1725	1795	2111	1955	449	371
750	61	445	24	10	110	968	1915	1985	2301	2395	549	462
1000	61	445	24	10	110	1117	2063	2133	2449	2779	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.												



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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 - TRXLP Insulation, 8 mil LCT												
2	Solid	175	24	8	80	258	653	723	973	567	186	151
2	7	175	24	8	80	283	678	748	998	595	188	153
1	Solid	175	24	8	80	289	685	755	1005	643	207	168
1	19	175	24	8	80	322	718	788	1038	665	210	170
1/0	Solid	175	24	8	80	325	720	790	1040	724	234	190
1/0	19	175	24	8	80	362	758	828	1078	761	237	192
2/0	19	175	24	8	80	405	800	870	1120	865	273	222
3/0	19	175	24	8	80	456	853	923	1173	1015	312	252
4/0	19	175	24	8	80	512	908	978	1228	1178	358	291
250	37	175	24	8	80	558	963	1033	1283	1328	391	347
350	37	175	24	8	80	661	1068	1138	1388	1708	471	383
500	37	175	24	8	80	789	1193	1263	1513	2250	571	472
750	61	175	24	8	80	968	1383	1453	1703	3143	689	579
1000	61	175	24	8	110	1117	1530	1600	1916	4090	789	666
1250	91	220	24	8	110	1250	1765	1835	2151	5101	871	748
15kV, 100% Insulation Level - TRXLP Insulation, 10 mil LCT												
2	Solid	175	24	10	80	258	653	723	973	594	186	151
2	7	175	24	10	80	283	678	748	998	624	188	153
1	Solid	175	24	10	80	289	685	755	1005	671	207	168
1	19	175	24	10	80	322	718	788	1038	694	210	170
1/0	Solid	175	24	10	80	325	720	790	1040	753	234	190
1/0	19	175	24	10	80	362	758	828	1078	792	237	192
2/0	19	175	24	10	80	405	800	870	1120	896	273	222
3/0	19	175	24	10	80	456	853	923	1173	1050	312	252
4/0	19	175	24	10	80	512	908	978	1228	1213	358	291
250	37	175	24	10	80	558	963	1033	1283	1363	391	347
350	37	175	24	10	80	661	1068	1138	1388	1748	471	383
500	37	175	24	10	80	789	1193	1263	1513	2294	571	472
750	61	175	24	10	80	968	1383	1453	1703	3192	689	579
1000	61	175	24	10	110	1117	1530	1600	1916	4143	789	666
1250	91	220	24	10	110	1250	1765	1835	2151	5161	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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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 TRXLP Insulation, 8 mil LCT												
2	Solid	220	24	8	80	258	745	815	1065	641	186	151
2	7	220	24	8	80	283	770	840	1090	662	188	153
1	Solid	220	24	8	80	289	778	848	1098	709	207	168
1	19	220	24	8	80	322	810	880	1130	752	210	170
1/0	Solid	220	24	8	80	325	813	883	1133	810	234	190
1/0	19	220	24	8	80	362	850	920	1170	841	237	192
2/0	19	220	24	8	80	406	893	963	1213	948	273	222
3/0	19	220	24	8	80	456	943	1013	1263	1081	312	252
4/0	19	220	24	8	80	512	1000	1070	1320	1260	358	291
250	37	220	24	8	80	558	1055	1125	1375	1419	391	347
350	37	220	24	8	80	661	1158	1228	1478	1793	471	383
500	37	220	24	8	80	789	1285	1355	1605	2344	571	472
750	61	220	24	8	110	968	1475	1545	1861	3331	689	579
1000	61	220	24	8	110	1117	1623	1693	2009	4209	789	666
1250	91	220	24	8	110	1250	1765	1835	2151	5101	871	748
15kV, 133% Insulation Level - 220 mil TRXLP Insulation, 10 mil LCT												
2	Solid	220	24	10	80	258	745	815	1065	672	186	151
2	7	220	24	10	80	283	770	840	1090	693	188	153
1	Solid	220	24	10	80	289	778	848	1098	741	207	168
1	19	220	24	10	80	322	810	880	1130	787	210	170
1/0	Solid	220	24	10	80	325	813	883	1133	846	234	190
1/0	19	220	24	10	80	362	850	920	1170	876	237	192
2/0	19	220	24	10	80	406	893	963	1213	983	273	222
3/0	19	220	24	10	80	456	943	1013	1263	1116	312	252
4/0	19	220	24	10	80	512	1000	1070	1320	1298	358	291
250	37	220	24	10	80	558	1055	1125	1375	1459	391	347
350	37	220	24	10	80	661	1158	1228	1478	1835	471	383
500	37	220	24	10	80	789	1285	1355	1605	2390	571	472
750	61	220	24	10	110	968	1475	1545	1861	3383	689	579
1000	61	220	24	10	110	1117	1623	1693	2009	4265	789	666
1250	91	220	24	10	110	1250	1765	1835	2151	5161	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
1	Solid	260	24	8	80	289	850	920	1170	776	207	168
1	19	260	24	8	80	322	880	950	1200	801	210	170
1/0	Solid	260	24	8	80	325	885	955	1205	861	234	190
1/0	19	260	24	8	80	362	920	990	1240	891	237	192
2/0	19	260	24	8	80	406	965	1035	1285	1002	273	222
3/0	19	260	24	8	80	456	1015	1085	1335	1148	312	252
4/0	19	260	24	8	80	512	1070	1140	1390	1324	358	291
250	37	260	24	8	80	558	1128	1198	1448	1481	391	347
350	37	260	24	8	80	661	1230	1300	1550	1868	471	383
500	37	260	24	8	80	789	1358	1428	1678	2429	571	472
750	61	260	24	8	110	968	1548	1618	1934	3419	689	579
1000	61	260	24	8	110	1117	1693	1763	2079	4310	789	666
1250	91	260	24	8	110	1250	1838	1908	2224	5206	871	748
25kV, 100% Insulation Level - 260 mil TRXLP Insulation, 10 mil LCT												
1	Solid	260	24	10	80	289	850	920	1170	812	207	168
1	19	260	24	10	80	322	880	950	1200	836	210	170
1/0	Solid	260	24	10	80	325	885	955	1205	896	234	190
1/0	19	260	24	10	80	362	920	990	1240	927	237	192
2/0	19	260	24	10	80	406	965	1035	1285	1037	273	222
3/0	19	260	24	10	80	456	1015	1085	1335	1187	312	252
4/0	19	260	24	10	80	512	1070	1140	1390	1364	358	291
250	37	260	24	10	80	558	1128	1198	1448	1521	391	347
350	37	260	24	10	80	661	1230	1300	1550	1912	471	383
500	37	260	24	10	80	789	1358	1428	1678	2478	571	472
750	61	260	24	10	110	968	1548	1618	1934	3472	689	579
1000	61	260	24	10	110	1117	1693	1763	2079	4369	789	666
1250	91	260	24	10	110	1250	1838	1908	2224	5268	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
1	Solid	280	24	8	80	289	890	960	1210	805	207	168
1	19	280	24	8	80	322	923	993	1243	832	210	170
1/0	Solid	280	24	8	80	325	925	995	1245	890	234	190
1/0	19	280	24	8	80	362	963	1033	1283	923	237	192
2/0	19	280	24	8	80	405	1005	1075	1325	1044	273	222
3/0	19	280	24	8	80	456	1058	1128	1378	1189	312	252
4/0	19	280	24	8	80	512	1113	1183	1433	1360	358	291
250	37	280	24	8	80	558	1168	1238	1488	1523	391	347
350	37	280	24	8	80	661	1273	1343	1593	1915	471	383
500	37	280	24	8	80	789	1398	1468	1718	2471	571	472
750	61	280	24	8	110	968	1588	1658	1974	3467	689	579
1000	61	280	24	8	110	1117	1735	1805	2121	4364	789	666
1250	91	280	24	8	110	1250	1878	1948	2264	5268	871	748
28kV, 100% Insulation Level - 280 mil TRXLP Insulation, 10 mil LCT												
1	Solid	280	24	10	80	289	890	960	1210	840	207	168
1	19	280	24	10	80	322	923	993	1243	867	210	170
1/0	Solid	280	24	10	80	325	925	995	1245	926	234	190
1/0	19	280	24	10	80	362	963	1033	1283	959	237	192
2/0	19	280	24	10	80	405	1005	1075	1325	1083	273	222
3/0	19	280	24	10	80	456	1058	1128	1378	1229	312	252
4/0	19	280	24	10	80	512	1113	1183	1433	1400	358	291
250	37	280	24	10	80	558	1168	1238	1488	1565	391	347
350	37	280	24	10	80	661	1273	1343	1593	1960	471	383
500	37	280	24	10	80	789	1398	1468	1718	2519	571	472
750	61	280	24	10	110	968	1588	1658	1974	3520	689	579
1000	61	280	24	10	110	1117	1735	1805	2121	4423	789	666
1250	91	280	24	10	110	1250	1878	1948	2264	5332	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
1/0	Solid	345	24	8	80	325	1060	1130	1380	1014	234	190
1/0	19	345	24	8	80	362	1095	1165	1415	1049	237	192
2/0	19	345	24	8	80	406	1140	1210	1460	1171	273	222
3/0	19	345	24	8	80	456	1190	1260	1510	1320	312	252
4/0	19	345	24	8	80	512	1245	1315	1565	1502	358	291
250	37	345	24	8	80	558	1300	1370	1620	1670	391	347
350	37	345	24	8	80	661	1405	1475	1725	2061	471	383
500	37	345	24	8	110	789	1530	1600	1916	2711	571	472
750	61	345	24	8	110	968	1720	1790	2106	3654	689	579
1000	61	345	24	8	110	1117	1868	1938	2254	4561	789	666
1250	91	345	24	8	110	1250	2013	2083	2399	5473	871	748
35kV, 100% Insulation Level - 345 mil TRXLP Insulation, 10 mil LCT												
1/0	Solid	345	24	10	80	325	1060	1130	1380	1054	234	190
1/0	19	345	24	10	80	362	1095	1165	1415	1089	237	192
2/0	19	345	24	10	80	406	1140	1210	1460	1212	273	222
3/0	19	345	24	10	80	456	1190	1260	1510	1364	312	252
4/0	19	345	24	10	80	512	1245	1315	1565	1547	358	291
250	37	345	24	10	80	558	1300	1370	1620	1717	391	347
350	37	345	24	10	80	661	1405	1475	1725	2110	471	383
500	37	345	24	10	110	789	1530	1600	1916	2764	571	472
750	61	345	24	10	110	968	1720	1790	2106	3712	689	579
1000	61	345	24	10	110	1117	1868	1938	2254	4625	789	666
1250	91	345	24	10	110	1250	2013	2083	2399	5540	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 TRXLP

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 TRXLP Insulation, 8 mil LCT												
350	37	445	24	8	110	661	1600	1670	1986	2385	471	383
500	37	445	24	8	110	789	1725	1795	2111	2971	571	472
750	61	445	24	8	110	968	1915	1985	2301	3942	689	579
1000	61	445	24	8	110	1117	2063	2133	2449	4860	789	666
46kV, 100% Insulation Level - 445 mil TRXLP Insulation, 10 mil LCT												
350	37	445	24	10	110	661	1600	1670	1986	2440	471	383
500	37	445	24	10	110	789	1725	1795	2111	3030	571	472
750	61	445	24	10	110	968	1915	1985	2301	4007	689	579
1000	61	445	24	10	110	1117	2063	2133	2449	4929	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.												

