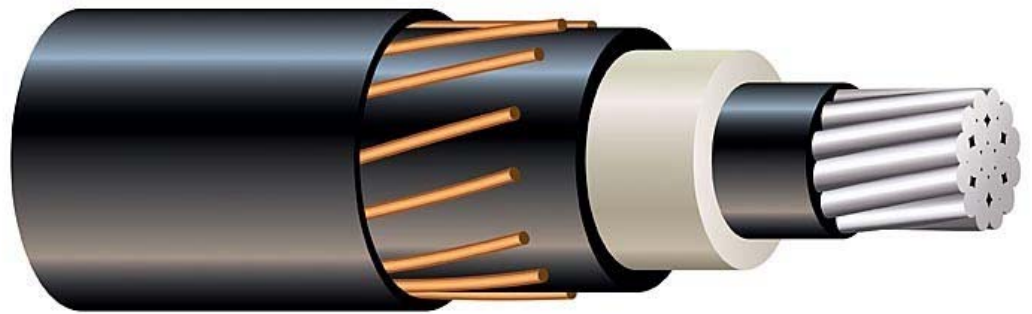


15kV Primary Cable UD Jacketed

Aluminum or Copper Conductor. TRXLP Insulation.
Bare Copper Concentric Neutrals.
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 15,000 volts or less and at conductor temperatures not to exceed 90°C for normal operation.

SPECIFICATIONS

Southwire 15kV 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 15kV 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-94-649
- AEIC CS-8
- UL1072, When Specified
- RUS U-1

CONSTRUCTION

The cable is composed of a solid or moisture blocked reverse lay, compressed stranded soft drawn 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 polyethylene strand shield, a tree-retardant cross-linked polyethylene primary insulation, and a semi-conducting cross-linked polyethylene insulation shield. Conductors are available with either 100% or 133% insulation levels. A concentric neutral of bare copper wires 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.

15kV Primary UD TRXLP

Phase Conductor		Neutral		Thickness Per Cond. (mils)			Diameter (mils)				Weight 1000 feet (lbs.)	Allowable Ampacities+	
Size (AWG or kcmil)	Strand- ing	No. of Wires	Size (AWG)	Nominal Insul.	Insul. Shield min. Point	Approx. Jkt.	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Comp. Cable	Comp. Cable	Direct Burial	In Ducts
ALUMINUM CONDUCTOR - 100% INSULATION LEVEL													
2	Solid	10	14	175	30	50	258	653	733	961	453	168*	119*
2	7	10	14	175	30	50	283	678	758	986	470	168*	119*
1	Solid	13	14	175	30	50	289	685	765	993	520	193*	137*
1	19	13	14	175	30	50	322	718	798	1026	539	193*	137*
1/0	Solid	16	14	175	30	50	325	720	800	1028	591	218*	155*
1/0	19	16	14	175	30	50	352	748	828	1056	609	218*	155*
2/0	19	20	14	175	30	50	395	790	870	1098	703	248*	177*
3/0	19	25	14	175	30	50	443	838	918	1146	817	284*	201*
4/0	19	20	12	175	30	50	498	893	973	1234	993	324*	230*
250	37	16	10	175	30	50	558	963	1043	1346	1213	360*	257*
350	37	18	14	175	40	50	661	1068	1168	1396	1055	389**	319**
500	37	25	14	175	40	50	789	1193	1293	1521	1349	468**	384**
750	61	24	12	175	40	80	968	1383	1483	1798	1946	569**	468**
1000	61	20	10	175	40	80	1117	1530	1630	1988	2473	642**	542**
1250	91	25	10	220	55	80	1250	1765	1895	2253	3142	688**	604**
1500	91	30	10	220	55	80	1370	1885	2015	2373	3616	726**	637**
COPPER CONDUCTOR - 100% INSULATION LEVEL													
2	Solid	16	14	175	30	50	258	653	733	961	664	210*	150*
2	7	16	14	175	30	50	283	678	758	986	684	210*	150*
1	Solid	20	14	175	30	50	289	685	765	993	780	240*	171*
1	19	20	14	175	30	50	322	718	798	1026	803	240*	171*
1/0	Solid	25	14	175	30	50	325	720	800	1028	922	273*	194*
1/0	19	25	14	175	30	50	362	758	838	1066	951	273*	194*
2/0	19	20	12	175	30	50	405	800	880	1142	1161	313*	224*
3/0	19	25	12	175	30	50	456	853	933	1194	1390	358*	255*
4/0	19	20	10	175	30	50	512	908	988	1291	1717	410*	293*
250	37	24	10	175	30	50	558	963	1043	1346	1992	446*	322*
350	37	18	12	175	40	50	661	1068	1168	1429	1964	489**	400**
500	37	26	12	175	40	50	789	1193	1293	1554	2651	577**	472**
750	61	25	10	175	40	80	968	1383	1483	1840	3906	649**	532**
1000	61	26	9	175	40	80	1117	1530	1630	2013	5041	720**	630**
1250	91	26	8	175	55	80	1250	1765	1895	2306	6400	760**	667**
+ 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 * Full neutral construction (Ampacities assume - single phase circuit, one cable) ** 1/3 neutral cable (Ampacities assume - three phase circuit, 3 cables triplexed, multi-point grounding per ICEA methods)													



15kV Primary UD TRXLP

Phase Conductor		Neutral		Thickness Per Cond. (mils)			Diameter (mils)				Weight 1000 feet (lbs.)	Allowable Ampacities+	
Size (AWG or kcmil)	Strand- ing	No. of Wires	Size (AWG)	Nominal Insul.	Insul. Shield min. Point	Approx. Jkt.	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Comp. Cable	Comp. Cable	Direct Burial	In Ducts
ALUMINUM CONDUCTOR - 0.220" INSULATION - 133% INSULATION LEVEL													
2	Solid	10	14	220	30	50	258	745	825	1053	511	168*	119*
2	7	10	14	220	30	50	283	770	850	1078	530	168*	119*
1	Solid	13	14	220	30	50	289	778	858	1086	580	193*	137*
1	19	13	14	220	30	50	322	810	890	1118	602	193*	137*
1/0	Solid	16	14	220	30	50	325	813	893	1121	654	218*	155*
1/0	19	16	14	220	30	50	352	840	920	1148	673	218*	155*
2/0	19	20	14	220	30	50	395	883	963	1191	769	248*	177*
3/0	19	25	14	220	30	50	443	930	1010	1238	886	284*	201*
4/0	19	20	12	220	30	50	498	985	1065	1327	1067	324*	230*
250	37	16	10	220	40	50	558	1055	1155	1459	1316	360*	257*
350	37	18	14	220	40	50	661	1158	1258	1486	1137	389**	319**
500	37	25	14	220	40	50	789	1285	1385	1613	1439	468**	384**
750	61	24	12	220	40	80	968	1475	1575	1891	2053	569**	468**
1000	61	20	10	220	55	80	1117	1623	1753	2110	2639	642**	542**
1250	91	25	10	220	55	80	1250	1765	1895	2253	3142	688**	604**
1500	91	30	10	220	55	80	1370	1885	2015	2373	3615	726**	637**
COPPER CONDUCTOR - 0.220" INSULATION - 133% INSULATION LEVEL													
2	Solid	16	14	220	30	50	258	745	825	1053	723	210*	150*
2	7	16	14	220	30	50	283	770	850	1078	744	210*	150*
1	Solid	20	14	220	30	50	289	778	858	1086	840	240*	171*
1	19	20	14	220	30	50	322	810	890	1118	865	240*	171*
1/0	Solid	25	14	220	30	50	325	813	893	1121	984	273*	194*
1/0	19	25	14	220	30	50	362	850	930	1158	1015	273*	194*
2/0	19	20	12	220	30	50	405	893	973	1234	1230	313*	224*
3/0	19	25	12	220	30	50	456	943	1023	1284	1460	358*	255*
4/0	19	20	10	220	30	50	512	1000	1080	1384	1795	410*	293*
250	37	24	10	220	40	50	558	1055	1155	1459	2095	446*	322*
350	37	18	12	220	40	50	661	1158	1258	1519	2048	489**	400**
500	37	26	12	220	40	50	789	1285	1385	1647	2744	577**	472**
750	61	25	10	220	40	80	968	1475	1575	1933	4016	649**	532**
1000	61	26	9	220	55	80	1117	1623	1753	2135	5209	720**	630**
1250	91	26	8	220	55	80	1250	1765	1895	2306	6400	760**	667**
+ 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													
* Full neutral construction (Ampacities assume - single phase circuit, one cable)													
** 1/3 neutral cable (Ampacities assume - three phase circuit, 3 cables triplexed, multi-point grounding per ICEA methods)													

