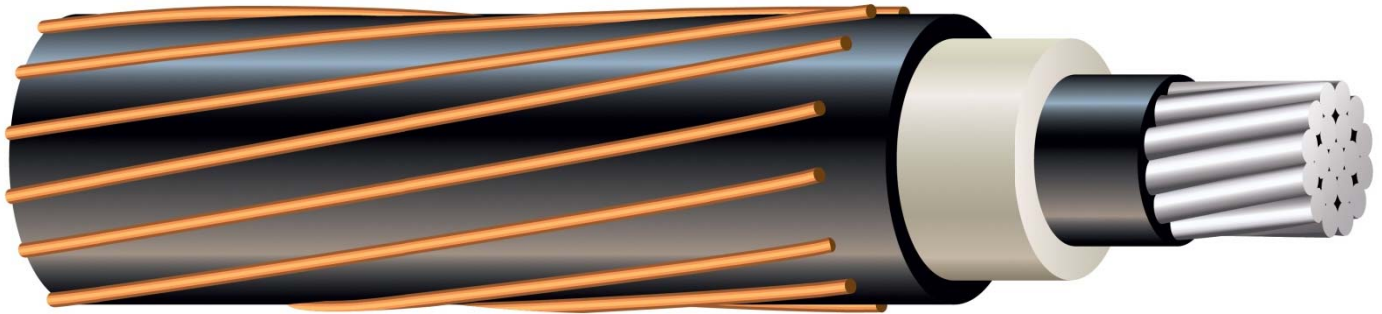


15kV Unjacketed Primary Cable UD

Aluminum or Copper Conductor. TRXLP Insulation.
Bare Copper Concentric Neutrals.



APPLICATIONS

Predominantly used for primary underground distribution; 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 Unjacketed 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 Unjacketed Primary UD 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
- RUS U-1

CONSTRUCTION

The phase conductor is solid or moisture blocked reverse lay or 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 polyethylene insulation shield. Conductors are available with either 100% or 133% insulation levels. A concentric neutral of bare copper wires is applied over the insulation shield.

15kV Unjacketed Primary UD TRXLP

Phase Conductor		Neutral		Thickness Per Conductor (mils)		Diameter (mils)				Weight (lb/1000 ft)	Allowable Ampacities +	
Size (AWG or kcmil)	Stranding	No. of Wires	Size (AWG)	Nominal Insul.	Insul. Shield Min. Point	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Complete Cable	Complete Cable	Direct Burial	In Ducts
ALUMINUM CONDUCTOR- 0.175" INSULATION- 100% INSULATION LEVEL												
2	Solid	10	14	175	30	258	653	733	861	343	168*	119*
2	7	10	14	175	30	283	678	758	886	357	168*	119*
1	Solid	13	14	175	30	289	685	765	893	409	193*	137*
1	19	13	14	175	30	322	718	798	926	424	193*	137*
1/0	Solid	16	14	175	30	325	720	800	928	480	218*	155*
1/0	19	16	14	175	30	352	748	828	956	493	218*	155*
2/0	19	20	14	175	30	395	790	870	998	586	248*	177*
3/0	19	25	14	175	30	443	838	918	1046	700	284*	201*
4/0	19	20	12	175	30	498	893	973	1134	851	324*	230*
250	37	16	10	175	30	558	963	1043	1246	1036	360*	257*
350	37	18	14	175	40	661	1068	1168	1296	893	389**	319**
500	37	25	14	175	40	789	1193	1293	1421	1178	468**	384**
750	61	24	12	175	40	968	1383	1483	1644	1667	569**	468**
1000	61	20	10	175	40	1117	1530	1630	1834	2129	642**	542**
COPPER CONDUCTOR- 0.175" INSULATION- 100% INSULATION LEVEL												
2	Solid	16	14	175	30	258	653	733	861	563	210*	150*
2	7	16	14	175	30	283	678	758	886	579	210*	150*
1	Solid	20	14	175	30	289	685	765	893	679	240*	171*
1	19	20	14	175	30	322	718	798	926	697	240*	171*
1/0	Solid	25	14	175	30	325	720	800	928	822	273*	194*
1/0	19	25	14	175	30	362	758	838	966	846	273*	194*
2/0	19	20	12	175	30	405	800	880	1042	1034	313*	224*
3/0	19	25	12	175	30	456	853	933	1094	1265	358*	255*
4/0	19	20	10	175	30	512	908	988	1191	1564	410*	293*
250	37	24	10	175	30	558	963	1043	1246	1841	446*	322*
350	37	18	12	175	40	661	1068	1168	1329	1786	489**	400**
500	37	26	12	175	40	789	1193	1293	1454	2469	577**	472**
750	61	25	10	175	40	968	1383	1483	1686	3611	649**	532**
1000	61	26	9	175	40	1117	1530	1630	1859	4707	720**	630**
+ 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 Unjacketed Primary UD TRXLP

Phase Conductor		Neutral		Thickness Per Conductor (mils)		Diameter (mils)				Weight (lb/1000 ft)	Allowable Ampacities +	
Size (AWG or kcmil)	Stranding	No. of Wires	Size (AWG)	Nominal Insul.	Insul. Shield Min. Point	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Complete Cable	Complete Cable	Direct Burial	In Ducts
ALUMINUM CONDUCTOR- 0.220" INSULATION- 133% INSULATION LEVEL												
2	Solid	10	14	220	30	258	745	825	953	388	168*	119*
2	7	10	14	220	30	283	770	850	978	403	168*	119*
1	Solid	13	14	220	30	289	778	858	986	456	193*	137*
1	19	13	14	220	30	322	810	890	1018	473	193*	137*
1/0	Solid	16	14	220	30	325	813	893	1021	529	218*	155*
1/0	19	16	14	220	30	352	840	920	1048	544	218*	155*
2/0	19	20	14	220	30	395	883	963	1091	639	248*	177*
3/0	19	25	14	220	30	443	930	1010	1138	756	284*	201*
4/0	19	20	12	220	30	498	985	1065	1227	910	324*	230*
250	37	16	10	220	40	558	1055	1155	1359	1117	360*	257*
350	37	18	14	220	40	661	1158	1258	1386	962	389**	319**
500	37	25	14	220	40	789	1285	1385	1513	1255	468**	384**
750	61	24	12	220	40	968	1475	1575	1737	1756	569**	468**
1000	61	20	10	220	55	1117	1623	1753	1956	2267	642**	542**
COPPER CONDUCTOR- 0.220" INSULATION- 133% INSULATION LEVEL												
2	Solid	16	14	220	30	258	745	825	953	608	210*	150*
2	7	16	14	220	30	283	770	850	978	626	210*	150*
1	Solid	20	14	220	30	289	778	858	986	726	240*	171*
1	19	20	14	220	30	322	810	890	1018	746	240*	171*
1/0	Solid	25	14	220	30	325	813	893	1021	871	273*	194*
1/0	19	25	14	220	30	362	850	930	1058	897	273*	194*
2/0	19	20	12	220	30	405	893	973	1134	1088	313*	224*
3/0	19	25	12	220	30	456	943	1023	1184	1321	358*	255*
4/0	19	20	10	220	30	512	1000	1080	1284	1624	410*	293*
250	37	24	10	220	40	558	1055	1155	1359	1922	446*	322*
350	37	18	12	220	40	661	1158	1258	1419	1855	489**	400**
500	37	26	12	220	40	789	1285	1385	1547	2547	577**	472**
750	61	25	10	220	40	968	1475	1575	1779	3700	649**	532**
1000	61	26	9	220	55	1117	1623	1753	1981	4845	720**	630**

+ 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)