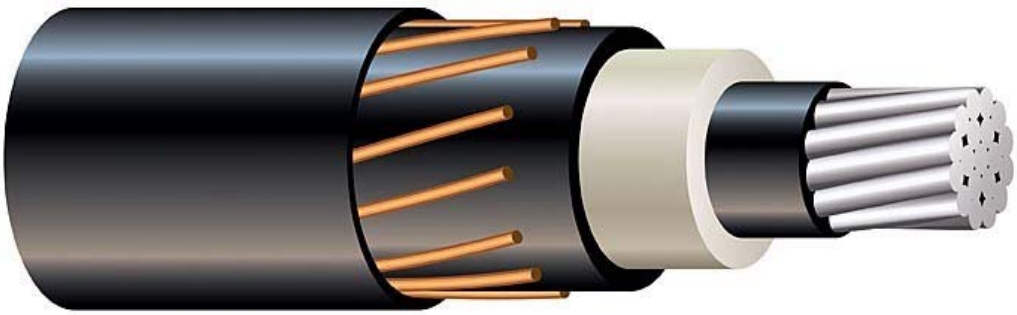
25kV Primary Cable UD Jacketed

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 25,000 volts or less and at conductor temperatures not to exceed 90°C for normal operation.

SPECIFICATIONS

Southwire 25kV 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 25kV 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.

25kV 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 – 0.260" INSULATION - 100% INSULATION LEVEL													
1	Solid	13	14	260	30	50	289	850	930	1158	631	189*	134*
1	19	13	14	260	30	50	322	880	960	1188	653	189*	134*
1/0	Solid	16	14	260	30	50	325	885	965	1193	706	214*	152*
1/0	19	16	14	260	30	50	352	910	990	1218	725	214*	152*
2/0	19	20	14	260	30	50	395	955	1035	1263	825	243*	173*
3/0	19	25	14	260	30	50	443	1003	1083	1311	944	278*	197*
4/0	19	20	12	260	40	50	498	1058	1158	1419	1150	318*	225*
250	37	16	10	260	40	50	558	1128	1228	1531	1384	353*	252*
350	37	18	14	260	40	50	661	1230	1330	1558	1206	387**	320**
500	37	25	14	260	40	80	789	1358	1458	1740	1573	466**	386**
750	61	24	12	260	40	80	968	1548	1648	1963	2140	567**	475**
1000	61	20	10	260	55	80	1117	1693	1823	2180	2734	648**	542**
1250	91	25	10	260	55	80	1250	1838	1968	2325	3247	689**	606**
1500	91	30	10	260	55	80	1370	1958	2088	2445	3725	729**	641**
COPPER CONDUCTOR - 0.260" INSULATION - 100% INSULATION LEVEL													
1	Solid	20	14	260	30	50	289	850	930	1158	891	235*	168*
1	19	20	14	260	30	50	322	880	960	1188	916	235*	168*
1/0	Solid	25	14	260	30	50	325	885	965	1193	1037	268*	190*
1/0	19	25	14	260	30	50	362	920	1000	1228	1068	268*	190*
2/0	19	20	12	260	30	50	405	965	1045	1307	1287	307*	220*
3/0	19	25	12	260	30	50	456	1015	1095	1357	1520	351*	250*
4/0	19	20	10	260	40	50	512	1070	1170	1474	1880	402*	287*
250	37	24	10	260	40	50	558	1128	1228	1531	2163	445*	317*
350	37	18	12	260	40	50	661	1230	1330	1592	2119	487**	403**
500	37	26	12	260	40	80	789	1358	1458	1773	2880	575**	475**
750	61	25	10	260	40	80	968	1548	1648	2005	4105	650**	562**
1000	61	26	9	260	55	80	1117	1693	1823	2205	5306	727**	639**
1250	91	26	8	260	55	80	1250	1838	1968	2378	6507	765**	672**

+ 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)

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