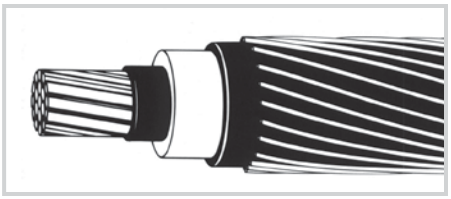
25kV Primary UD Cable



Construction

The phase conductor is concentrically stranded, compressed soft copper or 1350-H16/26 aluminum alloy. The cable is composed of the conductor, covered by a semi-conducting XLP strand shield, a tree-retardant XLP primary insulation and a semi-conducting XLP 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.

Specifications

Meets or exceeds the following applicable ASTM specifications:

- B-3 Soft Annealed Copper Wire
- B-8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard or Soft
- B-230 Aluminum, 1350-H19 Wire for Electrical Purposes
- B-231 Aluminum 1350 Conductors, Concentric-Lay-Stranded
- B-609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes

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

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

Phase Conductor		Neutral		Diameter (mils)					Allowed Ampacity	
Size (AWG or kcmils)	Stranding	No. of Wires	AWG	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Comp. Cable	Comp. Cable Weight (lbs/M-ft)	Direct Burial	In Ducts
Aluminum Conductor, .26" insulation, 100% insulation level										
1	19	13	14*	322	880	960	1,088	513	189*	134*
1/0	19	16	14*	362	920	1,000	1,128	590	214*	152*
2/0	19	20	14*	406	965	1,045	1,173	688	243*	173*
3/0	19	25	14*	456	1,015	1,095	1,223	808	278*	197*
4/0	19	20	12*	512	1,070	1,170	1,332	979	318*	225*
250	37	16	10*	558	1,125	1,225	1,429	1,153	353*	252*
350	37	18	14**	660	1,228	1,328	1,456	994	387**	320**
500	37	25	14**	789	1,358	1,458	1,586	1,284	466**	386**
750	61	24	12**	968	1,545	1,645	1,807	1,773	567**	475**
Copper Conduct, .26" insulation, 100% insulation level										
1	19	20	14*	322	880	960	1,686	801	235*	168*
1/0	19	25	14*	362	920	1,000	1,128	937	268*	190*
2/0	19	20	12*	405	965	1,045	1,207	1,130	307*	220*
3/0	19	25	12*	456	1,015	1,095	1,257	1,363	351*	250*
4/0	19	20	10*	512	1,070	1,170	1,374	1,682	402*	287*
250	37	24	10*	558	1,125	1,225	1,429	1,959	445*	317*
350	37	18	12**	661	1,230	1,330	1,492	1,890	487**	403**
500	37	26	12**	790	1,358	1,458	1,619	2,575	575**	475**

Information based on Southwire specs.

**Full neutral construction (ampacities assume - single phase circuit, one cable).*

***1/3 neutral cable (ampacities assume - three-phase circuit, three cables triplexed, multi-point grounding per ICEA methods).*