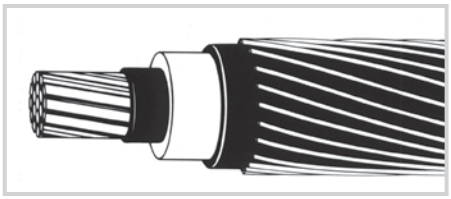
15kV Primary UD Cable



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 15kV 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, .175" insulation, 100% insulation level	Call for specs on cable with copper conductor									
2	7	10	14*	283	678	758	886	356	168*	119*
1/0	19	16	14*	362	758	838	966	496	218*	155*
2/0	19	20	14*	406	800	880	1,008	589	248*	177*
3/0	19	25	14*	456	850	930	1,058	703	284*	201*
4/0	19	20	12*	512	908	988	1,149	852	324*	230*
250	37	16	10*	558	963	1,043	1,246	1,020	360*	257*
350	37	18	14**	660	1,063	1,163	1,291	866	389**	319**
500	37	25	14**	789	1,193	1,293	1,421	1,142	468**	384**
750	61	24	12**	968	1,383	1,483	1,644	1,613	569**	468**
1,000	61	20	10	1,117	1,530	1,630	1,834	2,055	642	542
Aluminum Conductor, .22" insulation, 133% insulation level	Call for specs on cable with copper conductor									
2	7	10	14*	283	770	850	978	403	168	119*
1/0	19	16	14*	362	850	930	1,058	547	218	155*
2/0	19	20	14*	406	893	973	1,101	642	248	177*
3/0	19	25	14*	456	943	1,023	1,151	760	284	201*
4/0	19	20	12*	512	1,000	1,080	1,242	912	324	230*
250	37	16	10*	558	1,055	1,155	1,359	1,101	360	257*
350	37	18	14**	660	1,155	1,255	1,383	936	389	319**
500	37	25	14**	789	1,285	1,385	1,513	1,219	468	384**
750	61	24	12**	968	1,475	1,575	1,737	1,702	569	468**
1,000	61	20	10	1,117	1,623	1,753	1,956	2,193	642	542

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

Information based on Southwire specs.

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

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