ALUMINUM MEDIUM VOLTAGE—

ALUMINUM 15KV URD CABLE 133% TRXLPE INSULATION-FULL NEUTRAL

Description

Compressed concentric-lay stranded 1350 aluminum insulated with 220mils of tree-retardant cross-linked (TRXLP) polyethylene (133% insulation level), annealed solid bare copper full concentric neutral, with a black linear low-density polyethylene (LLDPE) jacket.

Application

For use in underground residential distribution, as primary power cable in single-phase systems direct buried or underground in duct. This conductor is rated to operate at a normal 90˚C, with an emergency rating at 130˚C. These products meet the requirements of ANSI/ICEA S-94-649, AEIC CS8, and RUS U1.

Compressed Conductor		Copper Neutral		Diameter (inches)			Nominal Jacket Thickness (inches)	Approx. Weight per 1000 ft. (lbs.)			Ampacity+	
Size (AWG or kcmil)	Stranding (No. of Wires)	Stranding (No. of Wires)	Size (AWG)	Insulation		LLDPE Jacket		Al Cond.	Cu Neut. Wires	Total Cable	Direct Buried	In Duct
				Min.	Max.							
2	1	16	16	0.700	0.790	1.004	0.055	61	134	488	190	130
2	7	16	16	0.725	0.815	1.029	0.055	62	134	506	190	130
1	1	20	16	0.735	0.820	1.035	0.055	77	168	549	215	150
1	19	20	16	0.765	0.855	1.068	0.055	78	168	569	215	150
1/0	1	16	14	0.770	0.855	1.097	0.055	97	213	645	240	170
1/0	19	16	14	0.805	0.895	1.134	0.055	99	213	669	240	170
2/0	19	20	14	0.850	0.935	1.178	0.055	125	267	766	275	195
3/0	19	16	12	0.900	0.985	1.262	0.055	158	338	916	315	220
4/0	19	20	12	0.955	1.045	1.318	0.055	199	423	1064	360	250

+ Ampacity based on earth thermal resistivity of 90˚C-cm/watt, 90˚C conductor temp., 20˚C earth ambient temperature. 75% load factor and 36" depth of burial.
Values based on single phase operation, with full current return in the neutral wires.
All weights, measurements, and values are nominal