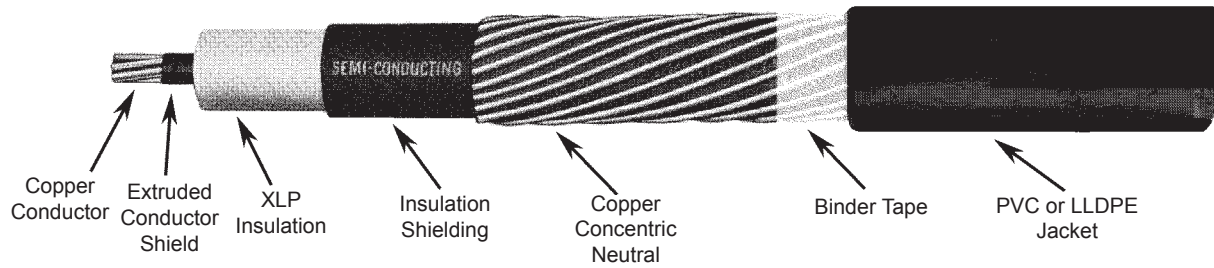


**UNDERGROUND DISTRIBUTION POWER CABLE (UD/URD), 5000 VOLT  
CROSS-LINKED POLYETHYLENE INSULATION (XLP),  
OVERALL JACKET, AEIC CS8<sup>1</sup>**

**SPEC 2-71-1.1**

Ver. 7.1

Revised: 12/17/08



**90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% INSULATION LEVEL**

Conductor			Insulation in Mils	Insulation Shielding in Mils	Overall Jacket in Mils	Concentric Neutral Full No. x Size AWG	Concentric Neutral 1/3rd No. x Size AWG	Approximate O.D. F/N in Inches	Ampacity** 20°C Ambient Earth	Approximate Net Weight Full Neutral LBS/KFT	Approximate Net Weight 1/3rd Neutral LBS/KFT
Size AWG or KCMIL	No. of Strands	Nominal O.D.									

**COPPER CONDUCTOR, 5000 VOLT, 100% INSULATION LEVEL**

4*	7	0.23	90	30	60	10 x 14	6 x 14	0.81	110	415	360
2	7	0.27	90	30	60	16 x 14	6 x 14	0.85	145	580	450
1*	19	0.32	90	30	80	13 x 12	7 x 14	0.98	170	750	565
1/0	19	0.34	90	30	80	16 x 12	9 x 14	0.99	195	885	665
2/0	19	0.38	90	30	80	13 x 10	11 x 14	1.07	220	1085	790
3/0	19	0.42	90	30	80	16 x 10	14 x 14	1.12	250	1310	950
4/0	19	0.48	90	30	80	20 x 10	18 x 14	1.17	290	1595	1155
250	37	0.52	90	30	80	15 x 8	13 x 12	1.28	320	1865	1335
350	37	0.62	90	30	80	----	18 x 12	1.29 <sup>~</sup>	385	----	1785
500	37	0.74	90	40	80	----	17 x 10	1.45 <sup>~</sup>	470	----	2480
750	61	0.91	90	40	110	----	16 x 8	1.77 <sup>~</sup>	585	----	3735

**Note:** \*\*Based on three cables in an underground duct, single circuit, earth 20°C, 100% load factor, RHO 90 per NEC, conductor temperature 90°C. No neutral current is considered.

\*Compressed conductors.

<sup>1</sup>If specified at time of order.

<sup>~</sup>Approximate O.D. in Inches for 1/3<sup>rd</sup> Concentric Neutrals.

The above data is approximate and subject to normal manufacturing tolerances.

**STANDARDS AND RATINGS:**

1. Conforms to ANSI/ICEA S-94-649 Concentric Neutral Cables Rated 5-46 kV.
2. Conforms to AEIC CS8 upon request.
3. Listed by CSA as Type Power Cable per Standard CSA C68.3 (with -40°C PVC jacket).