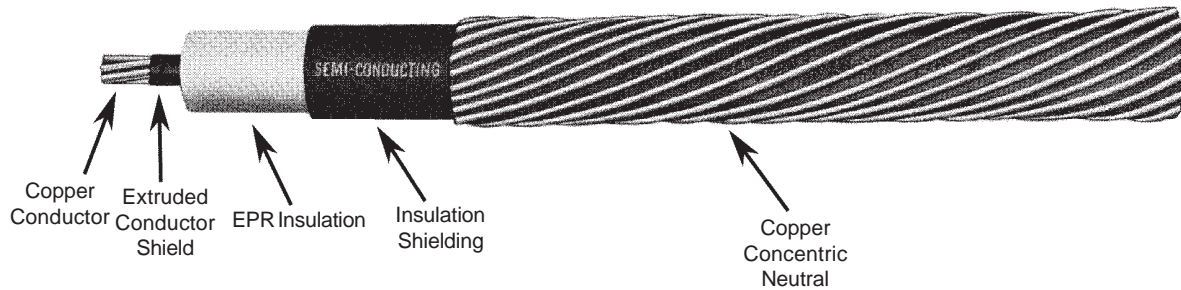


**UNDERGROUND DISTRIBUTION POWER CABLE (UD\URD),  
25000/28000 VOLT, ETHYLENE-PROPYLENE RUBBER INSULATION  
(EPR), AEIC CS8<sup>1</sup>**

**SPEC 2-81-4**  
Ver. 7.0  
Revised: 06/18/08



**90°/105°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% INSULATION LEVEL**

Conductor			Insulation in Mils	Insulation Shielding 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, 25000 VOLT, 100% INSULATION LEVEL**

1*	19	0.32	260	30	13 x 12	7 x 14	1.13	175	840	665
1/0	19	0.34	260	30	16 x 12	9 x 14	1.15	200	975	760
2/0	19	0.38	260	30	13 x 10	11 x 14	1.23	230	1175	890
3/0	19	0.42	260	40	16 x 10	14 x 14	1.29	260	1400	1060
4/0	19	0.48	260	40	20 x 10	18 x 14	1.35	295	1710	1290
250	37	0.52	260	40	15 x 8	13 x 12	1.46	325	1995	1475
350	37	0.62	260	40	----	18 x 12	1.46 <sup>-</sup>	390	----	1935
500	37	0.74	260	40	----	17 x 10	1.62 <sup>-</sup>	465	----	2645
750	61	0.91	260	50	----	16 x 8	1.90 <sup>-</sup>	565	----	3830

**COPPER CONDUCTOR, 28000 VOLT, 100% INSULATION LEVEL**

1*	19	0.32	280	30	13 x 12	7 x 14	1.17	175	865	685
1/0	19	0.34	280	30	16 x 12	9 x 14	1.19	200	1010	795
2/0	19	0.38	280	40	13 x 10	11 x 14	1.27	230	1215	930
3/0	19	0.42	280	40	16 x 10	14 x 14	1.34	260	1400	1115
4/0	19	0.48	280	40	20 x 10	18 x 14	1.39	295	1755	1330
250	37	0.52	280	40	15 x 8	13 x 12	1.50	325	2040	1525
350	37	0.62	280	40	----	18 x 12	1.50 <sup>-</sup>	390	----	1980
500	37	0.74	280	40	----	17 x 10	1.66 <sup>-</sup>	465	----	2695
750	61	0.91	280	50	----	16 x 8	1.95 <sup>-</sup>	565	----	3895

**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.

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

\*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.

**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.

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