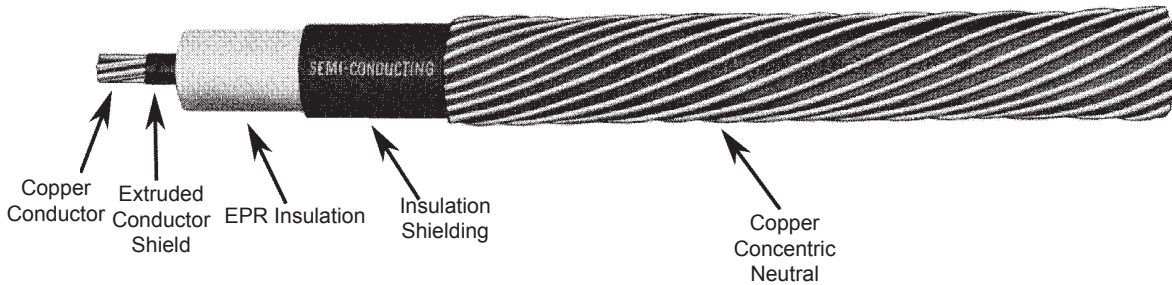


**UNDERGROUND DISTRIBUTION POWER CABLE (UD\URD),  
5000/8000 VOLT, ETHYLENE-PROPYLENE RUBBER INSULATION (EPR),  
AEIC CS8<sup>1</sup>**

**SPEC 2-81-1.2**

Ver. 7.1

Revised: 12/17/08



**90°/105°C CONDUCTOR TEMPERATURE, WET OR DRY**

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.								

**SINGLE CONDUCTOR 5000 VOLT (133%) or 8000 VOLT (100%) INSULATION LEVEL**

4*	7	0.23	115	30	10 x 14	6 x 14	0.69	115	355	305
2	7	0.27	115	30	16 x 14	6 x 14	0.74	155	525	395
1	19	0.32	115	30	13 x 12	7 x 14	0.83	175	650	470
1/0	19	0.34	115	30	16 x 12	9 x 14	0.84	200	785	570
2/0	19	0.38	115	30	13 x 10	11 x 14	0.93	230	980	695
3/0	19	0.42	115	30	16 x 10	14 x 14	0.97	260	1195	850
4/0	19	0.48	115	30	20 x 10	18 x 14	1.03	295	1475	1050
250	37	0.52	115	30	15 x 8	13 x 12	1.13	325	1745	1235
350	37	0.62	115	30	----	18 x 12	1.13 <sup>~</sup>	390	----	1660
500	37	0.74	115	40	----	17 x 10	1.32 <sup>~</sup>	465	----	2355
750	61	0.91	115	40	----	16 x 8	1.56 <sup>~</sup>	565	----	3465

**SINGLE CONDUCTOR 8000 VOLT, 133% INSULATION LEVEL**

4*	7	0.23	140	30	10 x 14	6 x 14	0.74	115	340	325
2	7	0.27	140	30	16 x 14	6 x 14	0.79	155	550	420
1	19	0.32	140	30	13 x 12	7 x 14	0.88	175	675	495
1/0	19	0.34	140	30	16 x 12	9 x 14	0.90	200	815	600
2/0	19	0.38	140	30	13 x 10	11 x 14	0.98	230	1010	720
3/0	19	0.42	140	30	16 x 10	14 x 14	1.03	260	1225	880
4/0	19	0.48	140	30	20 x 10	18 x 14	1.08	295	1510	1085
250	37	0.52	140	30	15 x 8	13 x 12	1.18	325	1780	1260
350	37	0.62	140	30	----	18 x 12	1.19 <sup>~</sup>	390	----	1700
500	37	0.74	140	40	----	17 x 10	1.37 <sup>~</sup>	465	----	2400
750	61	0.91	140	40	----	16 x 8	1.61 <sup>~</sup>	565	----	3515

**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.