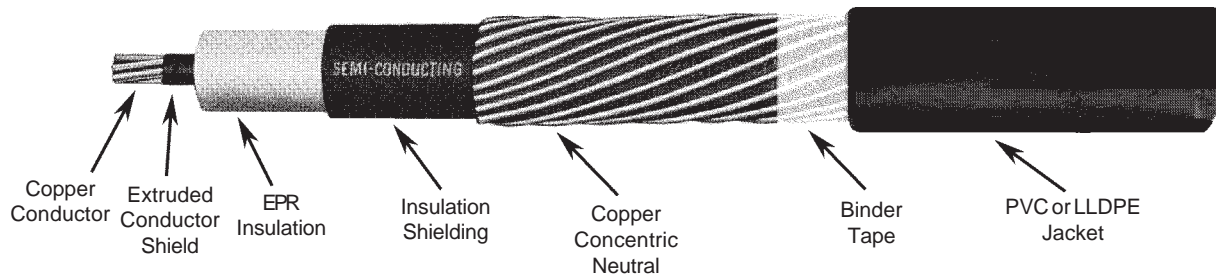


**UNDERGROUND DISTRIBUTION POWER CABLE (UDURD), 5000/8000 VOLT SPEC 2-81-1.3**  
**ETHYLENE-PROPYLENE RUBBER INSULATION (EPR),**  
**OVERALL JACKET, AEIC CS8<sup>1</sup>**

Ver. 7.0  
 Revised: 08/17/07



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

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.									

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

4*	7	0.23	115	30	60	10 x 14	6 x 14	0.86	115	445	390
2	7	0.27	115	30	80	16 x 14	6 x 14	0.94	155	650	525
1*	19	0.32	115	30	80	13 x 12	7 x 14	1.03	175	785	600
1/0	19	0.34	115	30	80	16 x 12	9 x 14	1.05	200	930	710
2/0	19	0.38	115	30	80	13 x 10	11 x 14	1.13	230	1135	840
3/0	19	0.42	115	30	80	16 x 10	14 x 14	1.17	260	1360	1000
4/0	19	0.48	115	30	80	20 x 10	18 x 14	1.23	295	1650	1210
250	37	0.52	115	30	80	15 x 8	13 x 12	1.34	325	1925	1395
350	37	0.62	115	30	80	----	18 x 12	1.34 <sup>-</sup>	390	----	1850
500	37	0.74	115	40	80	----	17 x 10	1.52 <sup>-</sup>	465	----	2575
750	61	0.91	115	40	110	----	16 x 8	1.82 <sup>-</sup>	565	----	3820

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

4*	7	0.23	140	30	80	10 x 14	6 x 14	0.95	115	505	455
2	7	0.27	140	30	80	16 x 14	6 x 14	1.00	155	685	555
1*	19	0.32	140	30	80	13 x 12	7 x 14	1.08	175	820	640
1/0	19	0.34	140	30	80	16 x 12	9 x 14	1.10	200	965	745
2/0	19	0.38	140	30	80	13 x 10	11 x 14	1.18	230	1170	875
3/0	19	0.42	140	30	80	16 x 10	14 x 14	1.23	260	1400	1040
4/0	19	0.48	140	30	80	20 x 10	18 x 14	1.28	295	1690	1250
250	37	0.52	140	30	80	15 x 8	13 x 12	1.39	325	1970	1435
350	37	0.62	140	30	80	----	18 x 12	1.39 <sup>-</sup>	390	----	1895
500	37	0.74	140	40	80	----	17 x 10	1.57 <sup>-</sup>	465	----	2630
750	61	0.91	140	40	110	----	16 x 8	1.88 <sup>-</sup>	565	----	3885

**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>2</sup>90°C conductor temperature with LLDPE jacket and 105°C conductor temperature with PVC jacket.

<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 (with -40°C PVC jacket).

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