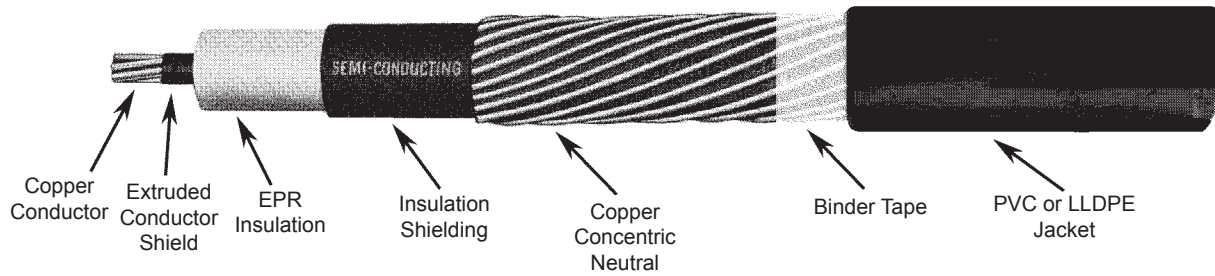


**UNDERGROUND DISTRIBUTION POWER CABLE (UD\URD), 25000/28000 VOLT OR 35000 VOLT, ETHYLENE-PROPYLENE RUBBER INSULATION (EPR), OVERALL JACKET, AEIC CS8<sup>1</sup>**

**SPEC 2-81-5.1**

Ver. 7.1

Revised: 02/23/10



**90°/105°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% 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, 25000/28000 VOLT 133% OR 35000 VOLT 100% INSULATION LEVEL**

1*	19	0.32	345	40	80	13 x 12	7 x 14	1.53	175	1205	1020
1/0	19	0.34	345	40	80	16 x 12	9 x 14	1.55	200	1370	1150
2/0	19	0.38	345	40	80	13 x 10	11 x 14	1.63	230	1585	1295
3/0	19	0.42	345	40	80	16 x 10	14 x 14	1.68	260	1830	1475
4/0	19	0.48	345	40	110	20 x 10	18 x 14	1.79	295	2240	1705
250	37	0.52	345	40	110	15 x 8	13 x 12	1.90	325	2550	2015
350	37	0.62	345	40	110	22 x 8	18 x 12	2.00	390	3315	2515
500	37	0.74	345	50	110	30 x 8	17 x 10	2.15	465	4345	3320
750	61	0.91	345	50	110	----	16 x 8	2.35 <sup>-</sup>	565	----	4560

**COPPER CONDUCTOR, 35000 VOLT, 133% INSULATION LEVEL**

1/0	19	0.34	420	40	80	16 x 12	9 x 14	1.71	200	1545	1325
2/0	19	0.38	420	40	110	13 x 10	11 x 14	1.85	230	1875	1570
3/0	19	0.42	420	40	110	16 x 10	14 x 14	1.90	260	2125	1765
4/0	19	0.48	420	40	110	20 x 10	18 x 14	1.95	295	2445	2005
250	37	0.52	420	40	110	15 x 8	13 x 12	2.06	325	2755	2220
350	37	0.62	420	50	110	22 x 8	18 x 12	2.19	390	3580	2780
500	37	0.74	420	50	110	30 x 8	17 x 10	2.31	465	4580	3560

**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>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.

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).

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