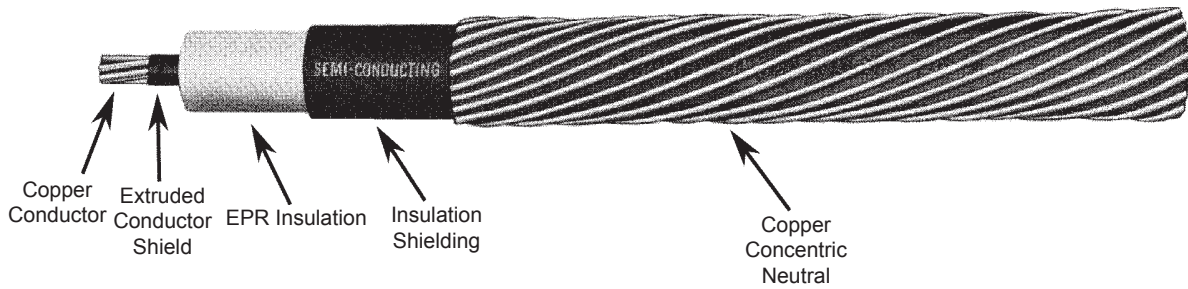


UNDERGROUND DISTRIBUTION POWER CABLE (UD\URD), 25000/28000 VOLT OR 35000 VOLT, ETHYLENE-PROPYLENE RUBBER INSULATION (EPR), AEIC CS8¹

SPEC 2-81-5
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	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	13 x 12	7 x 14	1.33	175	990	810
1/0	19	0.34	345	40	16 x 12	9 x 14	1.35	200	1010	925
2/0	19	0.38	345	40	13 x 10	11 x 14	1.43	230	1215	1060
3/0	19	0.42	345	40	16 x 10	14 x 14	1.48	260	1400	1240
4/0	19	0.48	345	40	20 x 10	18 x 14	1.53	295	1755	1460
250	37	0.52	345	40	15 x 8	13 x 12	1.64	325	2040	1660
350	37	0.62	345	40	22 x 8	18 x 12	1.73	390	2910	2130
500	37	0.74	345	50	30 x 8	17 x 10	1.89	465	3905	2895
750	61	0.91	345	50	----	16 x 8	2.08*	565	----	4075

COPPER CONDUCTOR, 35000 VOLT, 133% INSULATION LEVEL

1/0	19	0.34	420	40	16 x 12	9 x 14	1.51	200	1290	1075
2/0	19	0.38	420	40	13 x 10	11 x 14	1.59	230	1500	1215
3/0	19	0.42	420	40	16 x 10	14 x 14	1.63	260	1745	1400
4/0	19	0.48	420	40	20 x 10	18 x 14	1.69	295	2050	1625
250	37	0.52	420	40	15 x 8	13 x 12	1.79	325	2350	1830
350	37	0.62	420	50	22 x 8	18 x 12	1.92	390	3130	2350
500	37	0.74	420	50	30 x 8	17 x 10	2.04	465	4110	3095

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.
*If specified at time of order.

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

*Approximate O.D. in Inches for 1/3rd 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.

AETNA INSULATED WIRE, INC.
1537 AIR RAIL AVENUE, VIRGINIA BEACH, VA 23455
TELEPHONE: (800) 423-6505 FAX: (757) 605-2094
WWW.AETNAWIRE.COM

