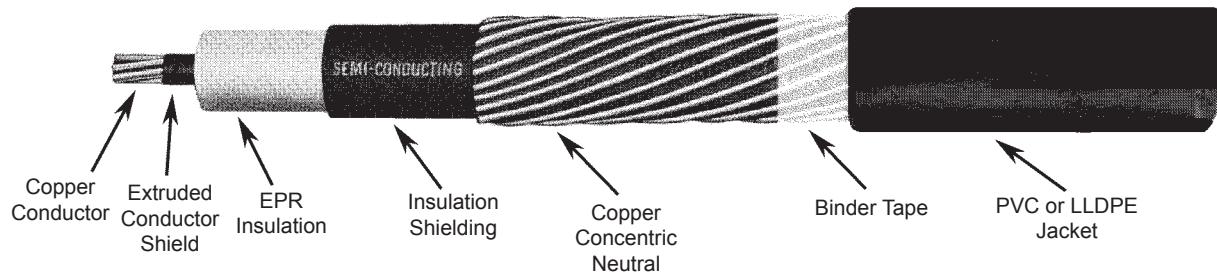


**UNDERGROUND DISTRIBUTION POWER CABLE (UD\URD), 25000/28000 VOLT
ETHYLENE-PROPYLENE RUBBER INSULATION (EPR),
OVERALL JACKET, AEIC CS8¹**

SPEC 2-81-4.1

Ver. 7.1

Revised: 12/30/08



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

| | | | | | | | | | | | |
|-----|----|------|-----|----|-----|---------|---------|-------|-----|------|------|
| 1* | 19 | 0.32 | 260 | 30 | 80 | 13 x 12 | 7 x 14 | 1.33 | 175 | 1035 | 855 |
| 1/0 | 19 | 0.34 | 260 | 30 | 80 | 16 x 12 | 9 x 14 | 1.35 | 200 | 1165 | 945 |
| 2/0 | 19 | 0.38 | 260 | 30 | 80 | 13 x 10 | 11 x 14 | 1.43 | 230 | 1380 | 1085 |
| 3/0 | 19 | 0.42 | 260 | 40 | 80 | 16 x 10 | 14 x 14 | 1.50 | 260 | 1615 | 1260 |
| 4/0 | 19 | 0.48 | 260 | 40 | 80 | 20 x 10 | 18 x 14 | 1.55 | 295 | 1940 | 1500 |
| 250 | 37 | 0.52 | 260 | 40 | 110 | 15 x 8 | 13 x 12 | 1.66 | 325 | 2225 | 1700 |
| 350 | 37 | 0.62 | 260 | 40 | 110 | ---- | 18 x 12 | 1.66~ | 390 | ---- | 2175 |
| 500 | 37 | 0.74 | 260 | 40 | 110 | ---- | 17 x 10 | 1.87~ | 465 | ---- | 3020 |
| 750 | 61 | 0.91 | 260 | 50 | 110 | ---- | 16 x 8 | 2.17~ | 565 | ---- | 4220 |

COPPER CONDUCTOR, 28000 VOLT, 100% INSULATION LEVEL

| | | | | | | | | | | | |
|-----|----|------|-----|----|-----|---------|---------|-------|-----|------|------|
| 1* | 19 | 0.32 | 280 | 30 | 80 | 13 x 12 | 7 x 14 | 1.38 | 175 | 1060 | 875 |
| 1/0 | 19 | 0.34 | 280 | 30 | 80 | 16 x 12 | 9 x 14 | 1.39 | 200 | 1210 | 995 |
| 2/0 | 19 | 0.38 | 280 | 40 | 80 | 13 x 10 | 11 x 14 | 1.47 | 230 | 1430 | 1130 |
| 3/0 | 19 | 0.42 | 280 | 40 | 80 | 16 x 10 | 14 x 14 | 1.54 | 260 | 1690 | 1330 |
| 4/0 | 19 | 0.48 | 280 | 40 | 80 | 20 x 10 | 18 x 14 | 1.59 | 295 | 1990 | 1550 |
| 250 | 37 | 0.52 | 280 | 40 | 110 | 15 x 8 | 13 x 12 | 1.77 | 325 | 2385 | 1755 |
| 350 | 37 | 0.62 | 280 | 40 | 110 | ---- | 18 x 12 | 1.77~ | 390 | ---- | 2330 |
| 500 | 37 | 0.74 | 280 | 40 | 110 | ---- | 17 x 10 | 1.93~ | 465 | ---- | 3080 |
| 750 | 61 | 0.91 | 280 | 50 | 110 | ---- | 16 x 8 | 2.21~ | 565 | ---- | 4345 |

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.

¹If specified at time of order.

²90°C conductor temperature with LLDPE jacket and 105°C conductor temperature with PVC jacket.

[~]Approximate O.D. in Inches for 1/3rd 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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