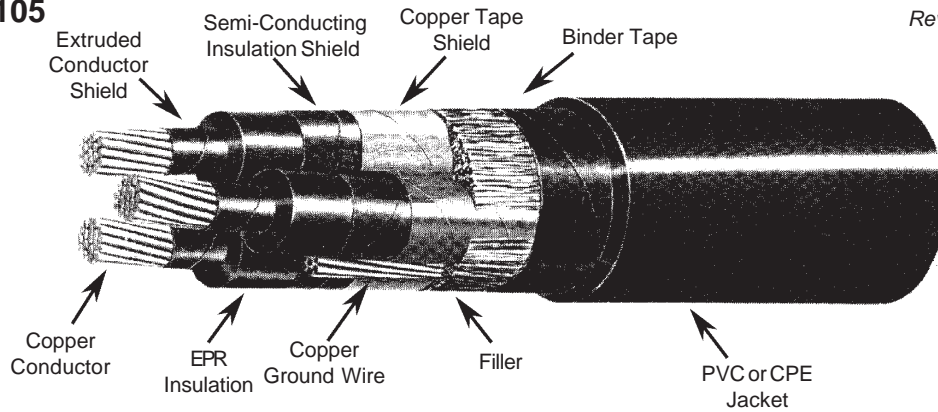


**EPR POWER CABLE, SHIELDED, 5000/8000 VOLT,  
TYPE MV-105**

**SPEC 2-61-6**  
Ver. 7.0  
Revised: 08/13/07



**105°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL**

| Conductor         |                |              | Insulation in Mils | Overall Jacket in Mils | Size AWG Copper Ground Wire | Approximate O.D. in Inches | Ampacity** 40°C Ambient | Approximate Net Weight LBS/KFT |
|-------------------|----------------|--------------|--------------------|------------------------|-----------------------------|----------------------------|-------------------------|--------------------------------|
| Size AWG or KCMIL | No. of Strands | Nominal O.D. |                    |                        |                             |                            |                         |                                |

**THREE CONDUCTOR 5000 VOLT (133%) or 8000 VOLT (100%) SHIELDED**

|       |    |      |     |     |     |      |     |       |
|-------|----|------|-----|-----|-----|------|-----|-------|
| 6*    | 7  | 0.18 | 115 | 80  | 6   | 1.36 | 105 | 1020  |
| 4*    | 7  | 0.23 | 115 | 80  | 6   | 1.45 | 135 | 1245  |
| 2     | 7  | 0.27 | 115 | 80  | 6   | 1.54 | 185 | 1560  |
| 1*    | 19 | 0.32 | 115 | 80  | 4   | 1.66 | 210 | 1870  |
| 1/0   | 19 | 0.34 | 115 | 80  | 4   | 1.75 | 240 | 2200  |
| 2/0   | 19 | 0.38 | 115 | 110 | 4   | 1.84 | 275 | 2545  |
| 3/0   | 19 | 0.42 | 115 | 110 | 3   | 1.94 | 315 | 3005  |
| 4/0   | 19 | 0.48 | 115 | 110 | 3   | 2.05 | 360 | 3530  |
| 250   | 37 | 0.52 | 115 | 110 | 2   | 2.18 | 400 | 4085  |
| 350   | 37 | 0.62 | 115 | 110 | 2   | 2.39 | 490 | 5245  |
| 500   | 37 | 0.74 | 115 | 110 | 1   | 2.69 | 600 | 7090  |
| 750   | 61 | 0.91 | 115 | 140 | 1/0 | 3.16 | 745 | 10210 |
| 1000* | 61 | 1.12 | 115 | 140 | 2/0 | 3.60 | 860 | 13230 |

**THREE CONDUCTOR 8000 VOLT SHIELDED, 133% INSULATION LEVEL**

|       |    |      |     |     |     |      |     |       |
|-------|----|------|-----|-----|-----|------|-----|-------|
| 6*    | 7  | 0.18 | 140 | 80  | 6   | 1.47 | 105 | 1135  |
| 4*    | 7  | 0.23 | 140 | 80  | 6   | 1.56 | 135 | 1365  |
| 2     | 7  | 0.27 | 140 | 80  | 6   | 1.66 | 185 | 1685  |
| 1*    | 19 | 0.32 | 140 | 110 | 4   | 1.84 | 210 | 2105  |
| 1/0   | 19 | 0.34 | 140 | 110 | 4   | 1.87 | 240 | 2345  |
| 2/0   | 19 | 0.38 | 140 | 110 | 4   | 1.95 | 275 | 2695  |
| 3/0   | 19 | 0.42 | 140 | 110 | 3   | 2.06 | 315 | 3160  |
| 4/0   | 19 | 0.48 | 140 | 110 | 3   | 2.17 | 360 | 3695  |
| 250   | 37 | 0.52 | 140 | 110 | 2   | 2.29 | 400 | 4255  |
| 350   | 37 | 0.62 | 140 | 110 | 2   | 2.50 | 490 | 5435  |
| 500   | 37 | 0.74 | 140 | 140 | 1   | 2.87 | 600 | 7455  |
| 750   | 61 | 0.91 | 140 | 140 | 1/0 | 3.28 | 745 | 10455 |
| 1000* | 61 | 1.12 | 140 | 140 | 2/0 | 3.72 | 860 | 13510 |

**Note:**\*\*Based on one three conductor cable isolated in air per NEC. For other installations refer to the NEC.  
\*Compressed conductors.

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

**STANDARDS AND RATINGS:**

1. Listed by UL as Type MV-105 per Standard 1072.
2. Conforms to ICEA S-93-639/NEMA WC74 Shielded Power Cable 5 - 46KV.
3. Listed by UL as Sunlight Resistant, for Direct Burial and For CT Use.
4. Listed by CSA as Type Power Cable per Standard CSA C68.3 (with -40°C PVC jacket).

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