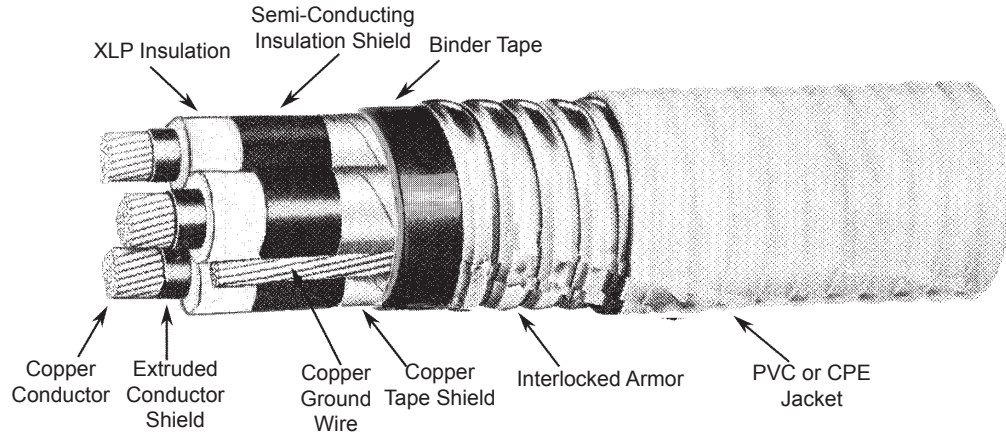


# INTERLOCKED ARMORED POWER CABLE, 25000/28000 VOLT OR 35000 VOLT, XLP, SHIELDED

**SPEC 3-62-5**  
Ver. 7.1  
Revised: 12/30/08



## 90°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL

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

### THREE CONDUCTOR 25000/28000 VOLT 133% OR 35000 VOLT 100% INSULATION LEVEL

|      |    |      |     |    |     |      |     |       |
|------|----|------|-----|----|-----|------|-----|-------|
| 1*   | 19 | 0.32 | 345 | 75 | 4   | 3.09 | 185 | 3725  |
| 1/0  | 19 | 0.34 | 345 | 75 | 4   | 3.12 | 215 | 3980  |
| 2/0  | 19 | 0.38 | 345 | 85 | 4   | 3.22 | 245 | 4435  |
| 3/0  | 19 | 0.42 | 345 | 85 | 3   | 3.33 | 285 | 4960  |
| 4/0  | 19 | 0.48 | 345 | 85 | 3   | 3.44 | 325 | 5560  |
| 250  | 37 | 0.52 | 345 | 85 | 2   | 3.57 | 365 | 6195  |
| 300* | 37 | 0.61 | 345 | 85 | 2   | 3.76 | 400 | 6985  |
| 350  | 37 | 0.62 | 345 | 85 | 2   | 3.77 | 435 | 7490  |
| 400* | 37 | 0.71 | 345 | 85 | 1   | 3.97 | 470 | 8350  |
| 500  | 37 | 0.74 | 345 | 85 | 1   | 4.08 | 535 | 9540  |
| 600* | 61 | 0.87 | 345 | 85 | 1/0 | 4.41 | 600 | 11145 |

### THREE CONDUCTOR 35000 VOLT, SHIELDED, 133% INSULATION LEVEL

|      |    |      |     |    |   |      |     |       |
|------|----|------|-----|----|---|------|-----|-------|
| 1/0  | 19 | 0.34 | 420 | 85 | 4 | 3.48 | 215 | 4665  |
| 2/0  | 19 | 0.38 | 420 | 85 | 4 | 3.56 | 245 | 5075  |
| 3/0  | 19 | 0.42 | 420 | 85 | 3 | 3.67 | 285 | 5620  |
| 4/0  | 19 | 0.48 | 420 | 85 | 3 | 3.78 | 325 | 6235  |
| 250  | 37 | 0.52 | 420 | 85 | 2 | 3.90 | 365 | 6895  |
| 300* | 37 | 0.61 | 420 | 85 | 2 | 4.15 | 400 | 7840  |
| 350  | 37 | 0.62 | 420 | 85 | 2 | 4.16 | 435 | 8350  |
| 400* | 37 | 0.71 | 420 | 85 | 1 | 4.35 | 470 | 9245  |
| 500  | 37 | 0.74 | 420 | 85 | 1 | 4.42 | 535 | 10330 |

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

§Weights based on aluminum armor assembly.

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

### STANDARDS AND RATINGS:

1. Conforms to ICEA S-93-639/NEMA WC74 Shielded Power Cable 5-46KV.
2. Cable listed by UL as Type MV-90 or MC per Standard 1072.
3. Listed by UL as Sunlight Resistant, for Direct Burial, For CT Use and IEEE 1202.
4. Listed by UL as For CT Use & LS (Aetna 3742 LSOH jacket only)
5. Conforms to ICEA T-29-520 210 KBTU/HR Vertical Tray Flame Test (PVC jacket only)

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