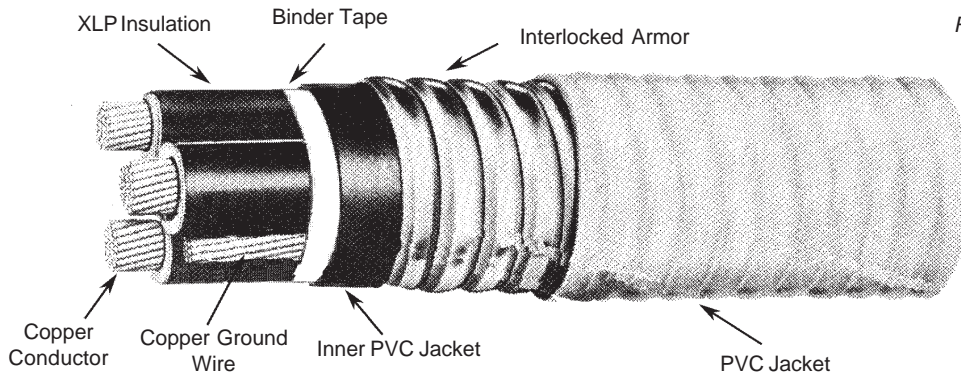


TECK 90 (MINUS 40°C) HL CABLE, 1000 VOLT, XLP (RW90)

SPEC 8-19-5

Ver. 7.0

Revised: 06/05/06



90°C CONDUCTOR TEMPERATURE, WET OR DRY

| Conductor | | | Insulation in Mils | Inner Jacket in Mils | Size AWG Copper Ground Wire | Approximate O.D. in Inches | | | Ampacity** 30°C Ambient | Approximate Net Weight~ LBS/KFT |
|-------------------|-----------------|--------------|--------------------|----------------------|-----------------------------|----------------------------|------------|---------------------|-------------------------|---------------------------------|
| Size AWG or KCMIL | No. of Strands* | Nominal O.D. | | | | Over Inner Jacket | Over Armor | Over Overall Jacket | | |

THREE CONDUCTOR 1000 VOLT

| | | | | | | | | | | |
|------|----|------|-----|-----|---|------|------|------|-----|-------|
| 8 | 7 | 0.14 | 60 | 60 | 8 | 0.75 | 0.93 | 1.03 | 45 | 575 |
| 6 | 7 | 0.18 | 60 | 60 | 8 | 0.82 | 1.00 | 1.10 | 65 | 750 |
| 4 | 7 | 0.23 | 60 | 80 | 8 | 0.97 | 1.15 | 1.25 | 85 | 1010 |
| 2 | 7 | 0.28 | 60 | 80 | 6 | 1.09 | 1.27 | 1.37 | 120 | 1355 |
| 1 | 19 | 0.32 | 80 | 80 | 6 | 1.27 | 1.45 | 1.55 | 140 | 1675 |
| 1/0 | 19 | 0.36 | 80 | 80 | 6 | 1.36 | 1.54 | 1.66 | 155 | 1975 |
| 2/0 | 19 | 0.41 | 80 | 80 | 6 | 1.45 | 1.63 | 1.75 | 185 | 2310 |
| 3/0 | 19 | 0.46 | 80 | 80 | 4 | 1.56 | 1.91 | 2.03 | 210 | 2845 |
| 4/0 | 19 | 0.51 | 80 | 80 | 4 | 1.68 | 2.03 | 2.15 | 235 | 3230 |
| 250 | 37 | 0.56 | 95 | 110 | 4 | 1.91 | 2.26 | 2.41 | 265 | 4110 |
| 300 | 37 | 0.61 | 95 | 110 | 4 | 2.02 | 2.37 | 2.52 | 295 | 4690 |
| 350 | 37 | 0.66 | 95 | 110 | 3 | 2.03 | 2.48 | 2.63 | 325 | 5310 |
| 400 | 37 | 0.71 | 95 | 110 | 3 | 2.23 | 2.58 | 2.73 | 345 | 5885 |
| 500 | 37 | 0.79 | 95 | 110 | 2 | 2.41 | 2.76 | 2.91 | 395 | 7045 |
| 600 | 61 | 0.87 | 110 | 110 | 2 | 2.64 | 2.99 | 3.14 | 455 | 8295 |
| 750 | 61 | 0.97 | 110 | 140 | 2 | 2.92 | 3.27 | 3.44 | 500 | 10230 |
| 1000 | 61 | 1.12 | 110 | 140 | 1 | 3.25 | 3.60 | 3.77 | 585 | 13025 |

FOUR CONDUCTOR 1000 VOLT

| | | | | | | | | | | |
|------|----|------|-----|-----|---|------|------|------|-----|-------|
| 8 | 7 | 0.14 | 60 | 60 | 8 | 0.82 | 1.00 | 1.10 | 45 | 710 |
| 6 | 7 | 0.18 | 60 | 80 | 8 | 0.94 | 1.12 | 1.22 | 65 | 935 |
| 4 | 7 | 0.23 | 60 | 80 | 8 | 1.06 | 1.24 | 1.34 | 85 | 1210 |
| 2 | 7 | 0.28 | 60 | 80 | 6 | 1.20 | 1.38 | 1.48 | 120 | 1645 |
| 1 | 19 | 0.32 | 80 | 80 | 6 | 1.40 | 1.58 | 1.70 | 140 | 2080 |
| 1/0 | 19 | 0.36 | 80 | 80 | 6 | 1.50 | 1.68 | 1.80 | 155 | 2430 |
| 2/0 | 19 | 0.41 | 80 | 80 | 6 | 1.60 | 1.95 | 2.07 | 185 | 2935 |
| 3/0 | 19 | 0.46 | 80 | 110 | 4 | 1.78 | 2.13 | 2.25 | 210 | 3650 |
| 4/0 | 19 | 0.51 | 80 | 110 | 4 | 1.92 | 2.27 | 2.42 | 235 | 4265 |
| 250 | 37 | 0.56 | 95 | 110 | 4 | 2.11 | 2.46 | 2.61 | 265 | 5110 |
| 300 | 37 | 0.61 | 95 | 110 | 4 | 2.24 | 2.59 | 2.74 | 295 | 5865 |
| 350 | 37 | 0.66 | 95 | 110 | 3 | 2.36 | 2.71 | 2.86 | 325 | 6655 |
| 400 | 37 | 0.71 | 95 | 110 | 3 | 2.47 | 2.82 | 2.97 | 345 | 7400 |
| 500 | 37 | 0.79 | 110 | 110 | 2 | 2.67 | 3.02 | 3.19 | 395 | 8965 |
| 600 | 61 | 0.87 | 110 | 140 | 2 | 2.99 | 3.34 | 3.51 | 455 | 10785 |
| 750 | 61 | 0.97 | 110 | 140 | 2 | 3.24 | 3.59 | 3.76 | 500 | 12985 |
| 1000 | 61 | 1.12 | 110 | 140 | 1 | 3.60 | 3.95 | 4.12 | 585 | 16620 |

Note:**Based on cables in free air run, per CEC Part 1, Tables 1 & 2. For four conductor cable the fourth conductor is a neutral. Otherwise the maximum ampacity is 80% of the table figures. For other installations refer to the CEC.

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

~Weights based on aluminum armor assembly.

STANDARDS AND RATINGS:

1. Listed as Teck 90 by CSA per CSA C22.2 No. 131.
2. Listed as FT4 & HL by CSA per CSA C22.2 No. 174.
3. Conforms to ICEA S-95-658/NEMA WC70 Nonshielded 0-2KV Cables.

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

