



POWER KABEL INC.

TRAY CABLE THHN INSULATION TYPE TC-ER PVC JACKET 600V

APPLICATIONS & FEATURES

Primarily used for power, control, signal, communication and lighting circuits in commercial and industrial environments. Suitable for installation in cable trays, supported by messenger wire in open air, raceways, channels, conduits and ducts. Approved for direct burial and outdoors in cable trays where sunlight resistant is required. Also may be installed in wet or dry locations or in areas exposed to chemicals and oils. Available as Exposed Run (ER) for use between cable trays and utilization equipment.

INDUSTRY COMPLIANCES

- UL Listed as TC-ER (Exposed Run) per UL Standard 1277 and used in accordance with NEC for 3 or more conductors
- Approved for Class 1 or 2, Division 2 industrial hazardous locations per NEC
- Rated 90°C wet or dry to meet UL 83 for THHN/THWN-2
- Meets cold bend test at -25°C
- ICEA S-95-658, ICEA S-73-532
- UL 62, UL 66, UL 83, UL1277
- UL1685 and IEEE 383 70,000 BTU Vertical Flame Test
- UL Listed to IEEE1202 and CSA FT4 70,000 BTU Flame Test

CONSTRUCTION

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| CONDUCTORS: | Fully annealed bare copper Class B compressed strand per ASTM B-3 and ASTM B-8 |
| INSULATION: | Flame retardant PVC/NYLON that is heat and moisture resistant per UL 62. Insulation meets requirements of Type THHN/THWN-2 as specified by UL 83 |
| ASSEMBLY: | Conductors are cabled together without a ground and with or without fillers as required to form a round, compact cable core with a binder tape (#8-#2 AWG ONLY) |
| JACKET: | Flame and sunlight resistant black PVC rated 90°C wet or dry per UL 1277. Ripcord provided for jackets with thickness of 60 mils or less |

| AWG | No of CONDUCTORS | STRANDS | INSULATION THICKNESS (INCHES) | NYLON THICKNESS (INCHES) | JACKET THICKNESS (INCHES) | OVERALL DIAMETER | POUNDS PER 1000 FT |
|-----|------------------|---------|-------------------------------|--------------------------|---------------------------|------------------|--------------------|
| 14 | 2 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.203 | 64 |
| 14 | 3 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.337 | 87 |
| 14 | 4 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.366 | 107 |
| 14 | 5 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.399 | 129 |
| 14 | 7 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.433 | 147 |
| 14 | 9 | 7 | 0.015 | 0.004 | 0.045 | 0.503 | 221 |
| 14 | 10 | 7 | 0.015 | 0.004 | 0.060 | 0.576 | 237 |
| 14 | 12 | 7 | 0.015 | 0.004 | 0.060 | 0.593 | 281 |
| 14 | 16 | 7 | 0.015 | 0.005 | 0.060 | 0.675 | 345 |
| 14 | 19 | 7 | 0.015 | 0.004 | 0.060 | 0.689 | 408 |
| 14 | 20 | 7 | 0.015 | 0.005 | 0.060 | 0.745 | 420 |
| 14 | 25 | 7 | 0.015 | 0.004 | 0.060 | 0.802 | 526 |
| 14 | 30 | 7 | 0.015 | 0.004 | 0.080 | 0.915 | 637 |
| 14 | 37 | 7 | 0.015 | 0.004 | 0.080 | 0.980 | 766 |
| 14 | 50 | 7 | 0.015 | 0.005 | 0.080 | 1.085 | 1028 |
| 14 | 60 | 7 | 0.015 | 0.005 | 0.080 | 1.183 | 1219 |
| 12 | 2 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.225 | 74 |
| 12 | 3 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.370 | 102 |
| 12 | 4 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.410 | 131 |
| 12 | 5 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.440 | 162 |
| 12 | 7 | 7 or 19 | 0.015 | 0.004 | 0.045 | 0.490 | 231 |
| 12 | 9 | 7 | 0.015 | 0.004 | 0.060 | 0.615 | 297 |
| 12 | 10 | 7 | 0.015 | 0.004 | 0.060 | 0.665 | 324 |
| 12 | 12 | 7 | 0.015 | 0.004 | 0.060 | 0.685 | 377 |
| 12 | 15 | 7 | 0.015 | 0.004 | 0.060 | 0.760 | 480 |
| 12 | 16 | 7 | 0.015 | 0.004 | 0.060 | 0.760 | 489 |
| 12 | 19 | 7 | 0.015 | 0.004 | 0.080 | 0.800 | 568 |
| 12 | 20 | 7 | 0.015 | 0.004 | 0.080 | 0.885 | 642 |
| 12 | 25 | 7 | 0.015 | 0.004 | 0.08 | 1 | 775 |
| 12 | 30 | 7 | 0.015 | 0.004 | 0.08 | 1.03 | 910 |
| 12 | 37 | 7 | 0.015 | 0.004 | 0.08 | 1.1 | 1100 |
| 10 | 2 | 7 or 19 | 0.02 | 0.004 | 0.045 | 0.261 | 109 |
| 10 | 3 | 7 or 19 | 0.02 | 0.004 | 0.045 | 0.45 | 154 |
| 10 | 4 | 7 or 19 | 0.02 | 0.004 | 0.06 | 0.49 | 197 |
| 10 | 5 | 7 or 19 | 0.02 | 0.004 | 0.06 | 0.57 | 260 |
| 10 | 7 | 7 or 19 | 0.02 | 0.004 | 0.045 | 0.66 | 362 |
| 10 | 9 | 7 | 0.02 | 0.004 | 0.08 | 0.763 | 467 |
| 10 | 12 | 7 | 0.02 | 0.004 | 0.08 | 0.81 | 573 |
| 10 | 19 | 7 | 0.02 | 0.004 | 0.08 | 1.02 | 920 |
| 10 | 37 | 7 | 0.02 | 0.004 | 0.08 | 1.32 | 1618 |
| 8 | 2 | 7 | 0.03 | 0.005 | 0.06 | 0.544 | 199 |
| 8 | 3 | 7 | 0.03 | 0.005 | 0.06 | 0.58 | 283 |
| 8 | 4 | 7 | 0.03 | 0.005 | 0.06 | 0.635 | 352 |
| 6 | 2 | 7 | 0.03 | 0.005 | 0.06 | 0.636 | 299 |
| 6 | 3 | 7 | 0.03 | 0.005 | 0.06 | 0.675 | 400 |
| 6 | 4 | 7 | 0.03 | 0.005 | 0.06 | 0.741 | 506 |
| 4 | 3 | 7 | 0.04 | 0.006 | 0.08 | 0.867 | 653 |
| 4 | 4 | 7 | 0.04 | 0.006 | 0.08 | 0.952 | 828 |
| 2 | 3 | 7 | 0.04 | 0.006 | 0.08 | 0.998 | 948 |
| 2 | 4 | 7 | 0.04 | 0.006 | 0.08 | 1.01 | 1206 |

All values are nominal and subject to correction.