



POWER KABEL INC.

TRAY CABLE THHN INSULATION SHIELDED 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.

INDUSTRY COMPLIANCES

- BL 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
- IEEA S-95-658, ICEA S-73-532
- BL 62, UL 66, UL 83, UL1277
- BL1685 and IEEE 383 70,000 BTU Vertical Flame Test
- BL Listed to IEEE1202 and CSA FT4 70,000 BTU Flame Test

CONSTRUCTION

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
SHIELD: 100% coverage spiral wound Aluminum-Mylar tape shield, with a 7 strand tinned flexible copper drain wire
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	DRAIN WIRE (AWG)	INSULATION THICKNESS (INCHES)	NYLON THICKNESS (INCHES)	JACKET THICKNESS (INCHES)	OVERALL DIAMETER	POUNDS PER 1000 FT
14	2	7	20	0.015	0.004	0.045	0.390	84
14	3	7	20	0.015	0.004	0.045	0.410	100
14	4	7	20	0.015	0.004	0.045	0.450	120
14	5	7	20	0.015	0.004	0.045	0.480	140
14	7	7	20	0.015	0.004	0.045	0.510	180
14	9	7	20	0.015	0.004	0.045	0.620	240
14	12	7	20	0.015	0.004	0.060	0.670	290
14	19	7	20	0.015	0.004	0.060	0.780	430
14	37	7	20	0.015	0.004	0.060	1.050	817
12	2	7	18	0.015	0.004	0.045	0.435	105
12	3	7	18	0.015	0.004	0.045	0.450	125
12	4	7	18	0.015	0.004	0.045	0.490	155
12	5	7	18	0.015	0.004	0.045	0.560	190
12	7	7	18	0.015	0.004	0.045	0.600	240
12	9	7	18	0.015	0.004	0.060	0.690	320
12	12	7	18	0.015	0.004	0.060	0.750	400
12	19	7	18	0.015	0.004	0.080	0.910	600
12	37	7	18	0.015	0.004	0.080	1.210	800
10	2	7	18	0.015	0.004	0.045	0.5	140
10	3	7	18	0.02	0.004	0.045	0.56	180
10	4	7	18	0.02	0.004	0.045	0.605	230
10	5	7	18	0.02	0.004	0.06	0.65	284
10	9	7	18	0.02	0.005	0.06	0.727	463
10	12	7	18	0.02	0.005	0.08	0.817	604