



# POWER KABEL INC.

## TRAY CABLE THHN INSULATION WITH GROUND 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

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

**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

**GROUND:** Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8

**ASSEMBLY:** Conductors are cabled together with or without fillers as required to form a round, compact cable core with a binder tape. (#8-750 AWG)

**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	GROUND (AWG)	INSULATION THICKNESS (INCHES)	NYLON THICKNESS (INCHES)	JACKET THICKNESS (INCHES)	OVERALL DIAMETER	POUNDS PER 1000 FT
14/3	7	14	0.015	0.005	0.045	0.336	100
12/3	7	12	0.015	0.005	0.045	0.384	145
10/3	7	10	0.020	0.005	0.045	0.463	212
8/3	7	10	0.030	0.005	0.060	0.610	303
8/4	7	10	0.030	0.005	0.060	0.661	352
6/3	7	8	0.030	0.005	0.060	0.725	421
6/4	7	8	0.030	0.005	0.060	0.796	768
4/3	7	8	0.040	0.006	0.060	0.857	648
4/4	7	8	0.040	0.006	0.060	0.957	805
3/3	7	6	0.040	0.006	0.080	0.927	806
2/3	7	6	0.040	0.006	0.080	0.986	963
2/4	7	6	0.040	0.006	0.080	1.102	1108
1/3	19	6	0.050	0.007	0.080	1.108	1156
1/4	19	6	0.050	0.007	0.080	1.247	1520
1/0-3	19	6	0.050	0.007	0.080	1.207	1452
1/0-4	19	6	0.050	0.007	0.080	1.314	1812
2/0-3	19	6	0.050	0.007	0.080	1.297	1737
2/0-4	19	6	0.050	0.007	0.080	1.453	2289
3/0-3	19	4	0.050	0.007	0.080	1.410	2123
3/0-4	19	4	0.050	0.007	0.080	1.575	2755
4/0-3	19	4	0.050	0.007	0.080	1.530	2577
4/0-4	19	4	0.050	0.007	0.080	1.768	3436
250-3	37	4	0.060	0.008	0.080	1.739	3129
250-4	37	4	0.060	0.008	0.080	1.937	4047
350-3	37	3	0.060	0.008	0.110	1.961	4346
350-4	37	3	0.060	0.008	0.110	2.180	5481
500-3	37	2	0.060	0.008	0.110	2.234	5848
500-4	37	2	0.060	0.008	0.110	2.495	7577
600-3	37	2	0.060	0.008	0.110	2.410	6832
750-3	37	1	0.060	0.008	0.110	2.722	8588
750-4	37	1	0.060	0.008	0.110	3.091	11348