

Tray Cable UL Type TC / TC-ER – 600V

THHN/THWN-2 Insulation – with Ground – PVC Jacket



APPLICATION:

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.

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

COLOR CODE:

- Black insulation with ICEA Method 4 printed numbers

ICEA S-58-679, Method 4 - All Black Conductors

Cond #	Cond Printing
1	"1-One"
2	"2-Two"
3	"3-Three"
4	"4-Four"
5	"5-Five"

ASSEMBLY:

- Conductors are cabled together with or without fillers as required to form a round, compact cable core with a binder tape.

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.

STANDARDS:

- 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



1-800-945-5542
www.PriorityWire.com



Tray Cable UL Type TC / TC-ER – 600V

THHN/THWN-2 Insulation – with Ground – PVC Jacket



Part Number	Conductor Size	No. of Conductors	No. of Strands	Ground Wire Size	Insulation Thickness		Nylon Thickness	Jacket Thickness	Overall Diameter	Net Weight	Ampacity* at 90°C
	AWG			AWG	inches	mm	inches	inches		lbs/kft	amps
8-03TCG-VN	8	3	7	10	0.030	0.76	0.005	0.060	0.610	303	55
8-04TCG-VN	8	4	7	10	0.030	0.76	0.005	0.060	0.661	352	55
6-03TCG-VN	6	3	7	8	0.030	0.76	0.005	0.060	0.725	421	75
6-04TCG-VN	6	4	7	8	0.030	0.76	0.005	0.060	0.796	768	75
4-03TCG-VN	4	3	7	8	0.040	1.02	0.006	0.060	0.857	648	95
4-04TCG-VN	4	4	7	8	0.040	1.02	0.006	0.060	0.957	805	95
3-03TCG-VN	3	3	7	6	0.040	1.02	0.006	0.080	0.927	806	115
2-03TCG-VN	2	3	7	6	0.040	1.02	0.006	0.080	0.986	963	130
2-04TCG-VN	2	4	7	6	0.040	1.02	0.006	0.080	1.102	1108	130
1-03TCG-VN	1	3	19	6	0.050	1.27	0.007	0.080	1.108	1156	145
1-04TCG-VN	1	4	19	6	0.050	1.27	0.007	0.080	1.247	1520	145
1/0-03TCG-VN	1/0	3	19	6	0.050	1.27	0.007	0.080	1.207	1452	170
1/0-04TCG-VN	1/0	4	19	6	0.050	1.27	0.007	0.080	1.314	1812	170
2/0-03TCG-VN	2/0	3	19	6	0.050	1.27	0.007	0.080	1.297	1737	195
2/0-04TCG-VN	2/0	4	19	6	0.050	1.27	0.007	0.080	1.453	2289	195
3/0-03TCG-VN	3/0	3	19	4	0.050	1.27	0.007	0.080	1.410	2123	225
3/0-04TCG-VN	3/0	4	19	4	0.050	1.27	0.007	0.080	1.575	2755	225
4/0-03TCG-VN	4/0	3	19	4	0.050	1.27	0.007	0.080	1.530	2577	260
4/0-04TCG-VN	4/0	4	19	4	0.050	1.27	0.007	0.080	1.768	3436	260
250-03TCG-VN	250	3	37	4	0.060	1.52	0.008	0.080	1.739	3129	290
250-04TCG-VN	250	4	37	4	0.060	1.52	0.008	0.080	1.937	4047	290
350-03TCG-VN	350	3	37	3	0.060	1.52	0.008	0.110	1.961	4346	350
350-04TCG-VN	350	4	37	3	0.060	1.52	0.008	0.110	2.180	5481	350
500-03TCG-VN	500	3	37	2	0.060	1.52	0.008	0.110	2.234	5848	430
500-04TCG-VN	500	4	37	2	0.060	1.52	0.008	0.110	2.495	7577	430
600-03TCG-VN	600	3	37	2	0.060	1.52	0.008	0.110	2.410	6832	475
750-03TCG-VN	750	3	37	1	0.060	1.52	0.008	0.110	2.722	8588	535
750-04TCG-VN	750	4	37	1	0.060	1.52	0.008	0.110	3.091	11348	535

All values are nominal and subject to correction

*Ampacities for not more than three current-carrying conductors in raceway, cable, or earth (directly buried) at ambient temperature of 30°C per NEC 2023 table 310.16. Refer to the NEC for deratings due to different conditions.



1-800-945-5542
www.PriorityWire.com



©2024 Priority Wire & Cable
04-2024