

Shielded Tray Cable UL Type TC / TC-ER – 600V

TFFN Insulation – 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:

- Heat and moisture resistant Polyvinylchloride (PVC) per UL 66
- Clear Polyamide (Nylon) jacket per UL 66

COLOR CODE:

- ICEA Method 1, Table E-2
(other color code options available)

ICEA S-58-679 Method 1, Table E-2

Cond #	Color	Tracer	Cond #	Color	Tracer	Cond #	Color	Tracer
1	Black	--	13	Blue	Red	25	Yellow	Orange
2	Red	--	14	Orange	Red	26	Brown	Orange
3	Blue	--	15	Yellow	Red	27	Black	Yellow
4	Orange	--	16	Brown	Red	28	Red	Yellow
5	Yellow	--	17	Black	Blue	29	Blue	Yellow
6	Brown	--	18	Red	Blue	30	Orange	Yellow
7	Red	Black	19	Orange	Blue	31	Brown	Yellow
8	Blue	Black	20	Yellow	Blue	32	Black	Brown
9	Orange	Black	21	Brown	Blue	33	Red	Brown
10	Yellow	Black	22	Black	Orange	34	Blue	Brown
11	Brown	Black	23	Red	Orange	35	Orange	Brown
12	Black	Red	24	Blue	Orange	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered. Colors repeats after 36 conductors. There are no Green or White conductors or stripes.

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.

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
- Meets cold bend test at -25°C
- ICEA S-95-658, ICEA S-73-532
- UL 66, UL1277
- UL1685 and IEEE 383 70,000 BTU Vertical Flame Test
- UL Listed to IEEE1202 and CSA FT4 70,000 BTU Flame Test



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Part Number	Conductor Size	No. of Conductors	No. of Strands	Drain Wire Size	Insulation Thickness		Nylon Thickness		Jacket Thickness		Overall Diameter	Net Weight
	AWG			AWG	inches	mm	inches	mm	inches	mm	inches	lbs/kft
18-02TC-VN-SHD**	18	2	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.320	52
18-03TC-VN-SHD	18	3	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.335	61
18-04TC-VN-SHD	18	4	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.360	70
18-06TC-VN-SHD	18	6	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.420	96
18-08TC-VN-SHD	18	8	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.450	110
18-12TC-VN-SHD	18	12	7	20	0.015	0.38	0.004	0.10	0.060	1.52	0.510	170
18-19TC-VN-SHD	18	19	7	20	0.015	0.38	0.004	0.10	0.060	1.52	0.554	238
18-25TC-VN-SHD	18	25	7	20	0.015	0.38	0.005	0.13	0.060	1.52	0.620	272
18-37TC-VN-SHD	18	37	7	20	0.015	0.38	0.004	0.10	0.060	1.52	0.744	383
16-02TC-VN-SHD**	16	2	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.310	61
16-03TC-VN-SHD	16	3	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.365	78
16-04TC-VN-SHD	16	4	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.390	92
16-05TC-VN-SHD	16	5	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.420	108
16-06TC-VN-SHD	16	6	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.450	120
16-07TC-VN-SHD	16	7	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.450	130
16-09TC-VN-SHD	16	9	7	20	0.015	0.38	0.004	0.10	0.045	1.14	0.449	162
16-12TC-VN-SHD	16	12	7	20	0.015	0.38	0.004	0.10	0.060	1.52	0.590	215
16-19TC-VN-SHD	16	19	7	20	0.015	0.38	0.004	0.10	0.060	1.52	0.690	310
16-37TC-VN-SHD	16	37	7	20	0.015	0.38	0.004	0.10	0.080	2.03	0.940	610

All values are nominal and subject to correction

**Construction NOT TC-ER rated



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