

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

## THHN 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, direct burial or joist pull applications not exceeding 600 volts and outdoors in cable trays where sunlight resistant is required.

### CONDUCTORS:

- Fully annealed bare copper Class B compressed strand per ASTM B3 and B8

### INSULATION:

- Heat and moisture resistant Polyvinylchloride (PVC) with a Nylon jacket

### SHIELD:

- Overall polyester-backed aluminum tape with stranded 22AWG tinned copper drain wire

### 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.

### ASSEMBLY:

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

### JACKET:

- Sunlight resistant PVC rated 90°C per UL 1277. Ripcord provided for jackets with thickness of 60 mils or less

### STANDARDS:

- UL 66, UL 83, UL1277
- UL 1685 Vertical-Tray Fire-Propagation and Smoke-Release Test
- Approved as Type TC or TC-ER-JP, Sunlight Resistant, Direct Burial
- ASTM B3, ASTM B8
- NEC Article 336, Article 501, Article 725 for class 1 circuits



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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
14-02TC-VN-SHD**	14	2	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.360	67
14-03TC-VN-SHD	14	3	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.380	85
14-04TC-VN-SHD	14	4	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.410	104
14-05TC-VN-SHD	14	5	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.440	124
14-07TC-VN-SHD	14	7	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.480	153
14-09TC-VN-SHD	14	9	7	22	0.015	0.38	0.004	0.10	0.060	1.52	0.570	203
14-12TC-VN-SHD	14	12	7	22	0.015	0.38	0.004	0.10	0.060	1.52	0.640	275
14-19TC-VN-SHD	14	19	7	22	0.015	0.38	0.004	0.10	0.060	1.52	0.740	402
14-25TC-VN-SHD	14	25	7	22	0.015	0.38	0.005	0.13	0.060	1.52	0.785	528
14-37TC-VN-SHD	14	37	7	22	0.015	0.38	0.004	0.10	0.080	2.03	1.010	768
12-02TC-VN-SHD**	12	2	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.410	90
12-03TC-VN-SHD	12	3	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.430	117
12-04TC-VN-SHD	12	4	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.470	145
12-05TC-VN-SHD	12	5	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.510	174
12-07TC-VN-SHD	12	7	7	22	0.015	0.38	0.004	0.10	0.045	1.14	0.550	227
12-09TC-VN-SHD	12	9	7	22	0.015	0.38	0.004	0.10	0.060	1.52	0.680	308
12-12TC-VN-SHD	12	12	7	22	0.015	0.38	0.004	0.10	0.060	1.52	0.730	388
12-19TC-VN-SHD	12	19	7	22	0.015	0.38	0.004	0.10	0.080	2.03	0.880	611
12-37TC-VN-SHD	12	37	7	22	0.015	0.38	0.004	0.10	0.080	2.03	1.150	1103
10-02TC-VN-SHD**	10	2	7	22	0.020	0.51	0.004	0.10	0.045	1.14	0.480	126
10-03TC-VN-SHD	10	3	7	22	0.020	0.51	0.004	0.10	0.045	1.14	0.510	169
10-04TC-VN-SHD	10	4	7	22	0.020	0.51	0.004	0.10	0.060	1.52	0.580	230
10-05TC-VN-SHD	10	5	7	22	0.020	0.51	0.004	0.10	0.060	1.52	0.630	275
10-09TC-VN-SHD	10	9	7	22	0.020	0.51	0.004	0.10	0.060	1.52	0.860	491
10-12TC-VN-SHD	10	12	7	22	0.020	0.51	0.004	0.10	0.080	2.03	0.920	620

All values are nominal and subject to correction

\*\*Construction NOT TC-ER rated



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