

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

## 12 AWG THHN/THWN-2 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

### ASSEMBLY:

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

### 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.

### 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

### OPTIONS:

- ICEA Method 1, Table E-1 or Method 4 Color Code
- Tinned Copper
- Shielding
- Composite Constructions



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

## 12 AWG THHN/THWN-2 Insulation – PVC Jacket



Part Number	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Nylon Thickness		Jacket Thickness		Overall Diameter	Net Weight
	AWG			inches	mm	inches	mm	inches	mm	inches	lbs/kft
12-02TC-VN**	12	2	7	0.015	0.38	0.004	0.10	0.045	1.14	.230 x .370	77
12-03TC-VN	12	3	7	0.015	0.38	0.004	0.10	0.045	1.14	0.385	110
12-04TC-VN	12	4	7	0.015	0.38	0.004	0.10	0.045	1.14	0.420	139
12-05TC-VN	12	5	7	0.015	0.38	0.004	0.10	0.045	1.14	0.460	165
12-07TC-VN	12	7	7	0.015	0.38	0.004	0.10	0.045	1.14	0.500	217
12-09TC-VN	12	9	7	0.015	0.38	0.004	0.10	0.060	1.52	0.615	297
12-10TC-VN	12	10	7	0.015	0.38	0.004	0.10	0.060	1.52	0.665	324
12-12TC-VN	12	12	7	0.015	0.38	0.004	0.10	0.060	1.52	0.685	377
12-15TC-VN	12	15	7	0.015	0.38	0.004	0.10	0.060	1.52	0.760	480
12-16TC-VN	12	16	7	0.015	0.38	0.004	0.10	0.060	1.52	0.760	489
12-19TC-VN	12	19	7	0.015	0.38	0.004	0.10	0.060	1.52	0.800	568
12-20TC-VN	12	20	7	0.015	0.38	0.004	0.10	0.080	2.03	0.885	642
12-25TC-VN	12	25	7	0.015	0.38	0.004	0.10	0.080	2.03	1.000	775
12-30TC-VN	12	30	7	0.015	0.38	0.004	0.10	0.080	2.03	1.030	910
12-37TC-VN	12	37	7	0.015	0.38	0.004	0.10	0.080	2.03	1.100	1100

All values are nominal and subject to correction

\*\*Flat Construction and NOT TC-ER rated

