

Tray Cable UL Type TC / TC-ER – 600V

14 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

14 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 |
| 14-02TC-VN ** | 14 | 2 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | .210 x .325 | 62 |
| 14-03TC-VN | 14 | 3 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.345 | 80 |
| 14-04TC-VN | 14 | 4 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.380 | 97 |
| 14-05TC-VN | 14 | 5 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.410 | 120 |
| 14-06TC-VN | 14 | 6 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.433 | 137 |
| 14-07TC-VN | 14 | 7 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.445 | 153 |
| 14-09TC-VN | 14 | 9 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.045 | 1.14 | 0.515 | 200 |
| 14-10TC-VN | 14 | 10 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.060 | 1.52 | 0.595 | 231 |
| 14-12TC-VN | 14 | 12 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.060 | 1.52 | 0.610 | 267 |
| 14-16TC-VN | 14 | 16 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.060 | 1.52 | 0.675 | 343 |
| 14-19TC-VN | 14 | 19 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.060 | 1.52 | 0.710 | 396 |
| 14-20TC-VN | 14 | 20 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.060 | 1.52 | 0.745 | 463 |
| 14-25TC-VN | 14 | 25 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 0.880 | 545 |
| 14-30TC-VN | 14 | 30 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 0.915 | 637 |
| 14-37TC-VN | 14 | 37 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 0.980 | 766 |
| 14-40TC-VN | 14 | 40 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 1.010 | 840 |
| 14-50TC-VN | 14 | 50 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 1.150 | 1020 |
| 14-60TC-VN | 14 | 60 | 7 | 0.015 | 0.38 | 0.004 | 0.10 | 0.080 | 2.03 | 1.210 | 1200 |

All values are nominal and subject to correction

**Flat Construction and NOT TC-ER rated

