

VNTC Tray Cable 18-10 AWG Shielded THHN/PVC

Scope:

Stranded copper conductors (ASTM B-8), polyvinyl chloride (PVC) insulated, jacketed in nylon for moisture and heat resistance. Phase identified and cabled together with fillers and/or binders as required. Cabled core is covered with an Aluminum-Mylar shield and a tinned copper drain wire, covered with overall black PVC jacket that is gas and oil resistant. Jacket available in colors. Suitable for use in hazardous locations: Class 1 and 2, Division 2.

Applicable Standards and Tests:

- UL 1277 at 600 volts
- Flame Rated: IEEE 1202 (70,000 BTU)
- ICEA S-95-658/NEMA WC-70
- Temperature Rated at 90°C Wet/Dry
- -25°C Rated
- Direct Burial & Sunlight Resistant
- Exposed Runs Rated (TC-ER)
- Color Code: NEMA WC 57/ICEA S-73-532 Table E-2

Construction:

Conductors: Concentric 19 strand soft drawn annealed copper per UL and ASTM requirements. Tinned conductors and other stranded configurations are available upon request. Single conductors are Oil & Gas Resistant II.

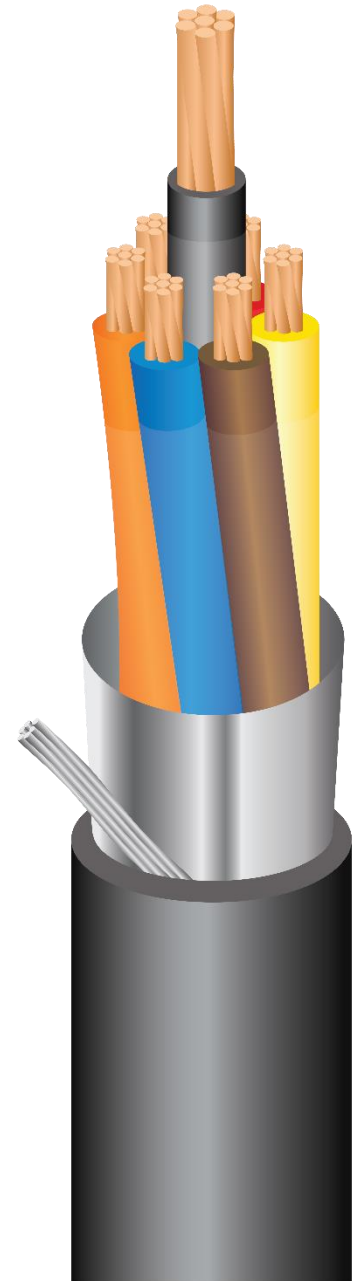
Insulation: Concentrically applied PVC insulation with a Nylon jacket. Rated at 90°C dry and 75°C wet. 16-18 AWG TFFN wire only, 10-14 AWG THHN only.

Shield: Aluminum-Mylar shield with a tinned copper drain wire.

Jacket: A black, flame resistant, Polyvinyl Chloride (PVC) jacket is extruded over the assembly. The surface profile shall approximate that of the interior assembly. An optional rip cord can be inserted underneath the jacket for assisted stripping.

Identification and Packaging:

The wire shall be identified by surface marking indicating the manufacturer, conductor size, voltage rating, UL symbol, and type designation. Custom lengths, color, and packaging is available by request.



AWG	Number of Conductors	Jacket Thickness (mils)	Nominal Diameter over Jacket (inches)	Approximate Net Weight (lbs./Mft.)
18	2	45	0.26	52
18	3	45	0.27	62
18	4	45	0.30	72
18	5	45	0.32	83
18	7	45	0.35	101
18	9	45	0.40	127
18	10	45	0.44	139
18	12	45	0.44	128
18	16	45	0.52	242
18	19	60	0.55	251
18	25	60	0.64	302
16	2	45	0.29	64
16	3	45	0.30	80
16	4	45	0.33	94
16	5	45	0.36	109
16	7	45	0.39	132
16	9	45	0.45	162
16	10	60	0.54	178
16	12	60	0.54	220
16	16	60	0.59	291
16	19	60	0.62	316
16	25	60	0.73	404
14	2	45	0.32	80
14	3	45	0.34	102
14	4	45	0.37	122
14	5	45	0.40	144
14	7	45	0.43	180
14	9	60	0.54	241
14	10	60	0.59	257
14	12	60	0.59	302
14	16	60	0.66	428
14	19	60	0.69	433
14	25	60	0.82	554
12	2	45	0.36	93
12	3	45	0.38	128
12	4	45	0.42	160
12	5	45	0.45	195
12	7	60	0.54	243
12	9	60	0.61	324
12	10	60	0.68	347
12	12	60	0.68	408
12	16	60	0.75	579
12	19	60	0.80	606
12	25	80	0.99	820
10	2	45	0.42	133
10	3	45	0.44	182
10	4	45	0.50	227
10	5	60	0.55	284
10	7	60	0.60	370
10	9	60	0.71	463
10	10	60	0.79	515
10	12	60	0.79	604
10	16	80	0.92	845