

VNTC Tray Cable 12-2 AWG Shielded with and without Ground 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. Optional bare copper or insulated green ground cable is included as well. 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.

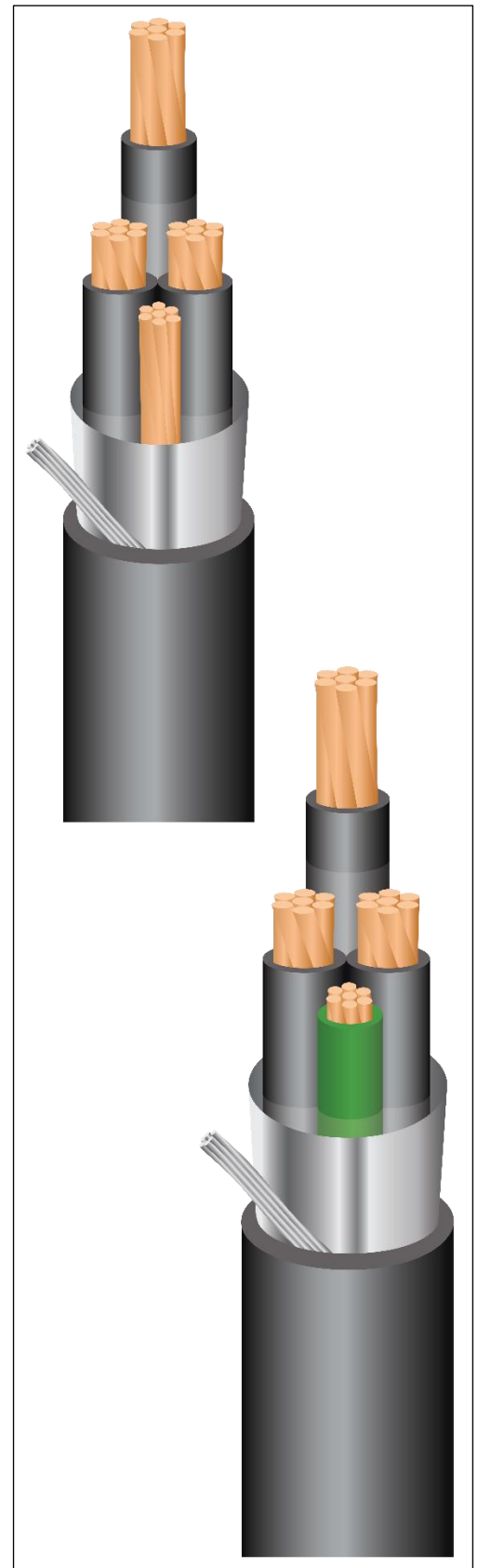
Ground Conductor: Bare copper conductor or insulated green polyvinyl chloride (PVC) insulated, jacketed in nylon.

Shield: Aluminum-Mylar shield with an optional 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.

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.



VNTC Tray Cable Shielded with NO Ground

AWG	Number of Conductors	Jacket Thickness (mils)	Nominal Diameter over Jacket (inches)	Approximate Net Weight (lbs./Mft.)
8	2	45	0.43	190
8	3	60	0.57	283
8	4	60	0.63	355
6	2	60	0.56	294
6	3	60	0.70	400
6	4	60	0.77	515
4	2	60	0.66	421
4	3	80	0.87	627
4	4	80	0.95	787
2	2	60	0.76	627
2	3	80	1.00	965

VNTC Tray Cable Shielded with Bare Copper Ground

AWG	Number of Conductors	Size of Ground Wire (AWG)	Jacket Thickness (mils)	Nominal Diameter over Jacket (inches)	Approximate Net Weight (lbs./Mft.)
12	2	12	45	0.35	111
12	3	12	45	0.39	136
12	4	12	45	0.43	163
10	2	10	45	0.40	167
10	3	10	45	0.45	198
10	4	10	45	0.50	256
8	2	10	45	0.48	226
8	3	10	60	0.57	313
8	4	10	60	0.64	386
6	2	8	60	0.61	354
6	3	8	60	0.70	459
6	4	8	60	0.78	567
4	2	8	60	0.69	490
4	3	8	60	0.80	636
4	4	8	80	0.95	916
2	2	6	60	0.81	720
2	3	6	80	0.97	1042

VNTC Tray Cable Shielded with Green Insulated Ground

AWG	Number of Conductors	Size of Ground Wire (AWG)	Jacket Thickness (mils)	Nominal Diameter over Jacket (inches)	Approximate Net Weight (lbs./Mft.)
12	2	12	45	0.38	105
12	3	12	45	0.42	142
12	4	12	45	0.45	169
10	2	10	45	0.44	164
10	3	10	45	0.48	207
10	4	10	45	0.52	280
8	2	10	45	0.51	222
8	3	10	60	0.60	323
8	4	10	60	0.66	395
6	2	8	60	0.66	357
6	3	8	60	0.74	478
6	4	8	60	0.82	584
4	2	8	60	0.74	494
4	3	8	80	0.88	686
4	4	8	80	0.98	935
2	2	6	80	0.91	755