

VNTC®

PVC/Nylon/PVC, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹ – Method 4 Color Code



Compliances:

Industry Compliances:

- NEC Type THHN/THWN conductors
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

Product Construction:

Conductor:

- 14 AWG thru 500 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with Polyimide (nylon)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated bare annealed copper per ASTM B3

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides good oil and chemical resistance
- Provides a long service life
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
14 AWG - 500 kcmil CONDUCTORS														
383890*	3	14	7W	14	0.020	0.51	0.045	1.14	0.345	8.76	52	77	100	149
234250	3	12	7W	12	0.020	0.51	0.045	1.14	0.385	9.78	86	128	138	205
234260	3	10	7W	10	0.020	0.51	0.045	1.14	0.450	11.43	135	200	209	311
386700**	3	10	7W	10	0.020	0.51	0.045	1.14	0.450	11.43	135	200	209	311
236370	3	8	7W	10	0.036	0.91	0.060	1.52	0.600	15.24	189	281	308	458
236380	4	8	7W	10	0.036	0.91	0.060	1.52	0.655	16.64	241	359	373	555
226410	3	6	7W	8	0.036	0.91	0.060	1.52	0.690	17.53	300	446	434	646
231980	4	6	7W	8	0.036	0.91	0.060	1.52	0.760	19.30	383	570	533	793
236400	3	4	7W	8	0.048	1.22	0.080	2.03	0.875	22.28	446	664	650	967
236410*	4	4	7W	8	0.048	1.22	0.080	2.03	0.970	24.64	578	860	824	1226
236420	3	2	7W	6	0.048	1.22	0.080	2.03	1.000	25.40	710	1057	964	1435
236430*	4	2	7W	6	0.048	1.22	0.080	2.03	1.100	27.94	919	1368	1227	1826
236440	3	1/0	19W	6	0.059	1.50	0.080	2.03	1.225	31.12	1080	1607	1447	2153
219580*	4	1/0	19W	6	0.059	1.50	0.080	2.03	1.360	34.54	1413	2103	1830	2723
243760	3	2/0	19W	6	0.059	1.50	0.080	2.03	1.320	33.53	1340	1994	1754	2610
219610*	4	2/0	19W	6	0.059	1.50	0.080	2.03	1.455	36.96	1760	2619	2252	3351
221560	3	4/0	19W	4	0.059	1.50	0.080	2.03	1.545	39.24	2130	3170	2630	3914
329240*	4	4/0	19W	4	0.059	1.50	0.110	2.79	1.770	44.96	2796	4161	3502	5212
222490	3	250	37W	4	0.070	1.78	0.110	2.79	1.740	44.20	2494	3696	3177	4728
297050*	4	250	37W	4	0.070	1.78	0.110	2.79	1.945	49.40	3281	4883	4107	6112
226430	3	350	37W	3	0.070	1.78	0.110	2.79	1.990	50.55	3474	5170	4263	6344
297060*	4	350	37W	3	0.070	1.78	0.110	2.79	2.190	55.63	4586	6825	5585	8312
219630	3	500	37W	2	0.070	1.78	0.110	2.79	2.270	57.66	4934	7343	5890	8765
222510*	4	500	37W	2	0.070	1.78	0.110	2.79	2.505	63.63	6509	9687	7694	11450

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** E-2 Color Code.

¹ Approved as TYPE TC-ER for Exposed Run applications as defined by NEC.



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