

**VNTC®**

PVC/Nylon/PVC, Control, Shielded  
600 V, UL Type TC-ER<sup>1</sup>, Overall Shielded—E-2 Color Code

**Product Construction:**

**Conductor:**

- 18 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

**Insulation:**

- Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

**Shield:**

**Overall shielded multi-conductor**

- Overall shield is Flexfoil® aluminum/polymer, in contact with stranded tinned copper drain wire

**Jacket:**

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

**Print**

- GENERAL CABLE® (PLANT OF MFG) SHIELDED VNTC® XX/C XX AWG (UL) TYPE TC-ER TFN OR THHN/THWN SUN RES DIR BUR 600 V ROHS DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

**Options:**

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Unshielded multi-conductors
- Other constructions available upon request

**Applications:**

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

**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 long service life
- Provides good oil and chemical resistance
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

**Compliances:**

**Industry Compliances:**

- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- UL 66 NEC Type TFN conductors (16 & 18 AWG)
- UL 83 NEC Type THHN/THWN conductors (14 through 10 AWG)
- ICEA S-73-532/NEMA WC57

**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



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	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

**OVERALL SHIELDED MULTI-CONDUCTORS  
18 AWG CONDUCTORS**

261130	2	18	7/.0152	0.020	0.51	0.045	1.14	0.280	7.11	12	19	40	60
261140	3	18	7/.0152	0.020	0.51	0.045	1.14	0.290	7.37	18	26	49	73
261150	4	18	7/.0152	0.020	0.51	0.045	1.14	0.310	7.87	23	34	58	86
260000*	5	18	7/.0152	0.020	0.51	0.045	1.14	0.340	8.64	28	41	70	104
259980*	7	18	7/.0152	0.020	0.51	0.045	1.14	0.370	9.40	39	58	89	132

**OVERALL SHIELDED MULTI-CONDUCTORS  
16 AWG CONDUCTORS**

247620	2	16	7/.0192	0.020	0.51	0.045	1.14	0.300	7.62	20	29	52	77
261160	3	16	7/.0192	0.020	0.51	0.045	1.14	0.320	8.13	28	41	63	94
243710	4	16	7/.0192	0.020	0.51	0.045	1.14	0.350	8.89	36	53	77	115
266580*	5	16	7/.0192	0.020	0.51	0.045	1.14	0.370	9.40	44	65	91	135
243740*	7	16	7/.0192	0.020	0.51	0.045	1.14	0.410	10.41	60	89	119	177
243560*	9	16	7/.0192	0.020	0.51	0.045	1.14	0.470	11.97	76	113	150	223
229600*	12	16	7/.0192	0.020	0.51	0.045	1.14	0.510	12.95	100	149	185	275

**OVERALL SHIELDED MULTI-CONDUCTORS  
14 AWG CONDUCTORS**

243660	2	14	7/.0242	0.020	0.51	0.045	1.14	0.330	8.38	31	46	67	100
243720	3	14	7/.0242	0.020	0.51	0.045	1.14	0.350	8.89	44	65	84	125
243650	4	14	7/.0242	0.020	0.51	0.045	1.14	0.380	9.65	57	85	104	155
243570*	5	14	7/.0242	0.020	0.51	0.045	1.14	0.400	10.16	70	104	123	183
243580	7	14	7/.0242	0.020	0.51	0.045	1.14	0.440	11.18	96	142	161	240

**OVERALL SHIELDED MULTI-CONDUCTORS  
12 AWG CONDUCTORS**

243670	2	12	7/.0305	0.020	0.51	0.045	1.14	0.370	9.40	43	64	83	124
243810*	3	12	7/.0305	0.020	0.51	0.045	1.14	0.390	9.91	64	95	111	165
243840	4	12	7/.0305	0.020	0.51	0.045	1.14	0.420	10.67	85	126	139	207

**OVERALL SHIELDED MULTI-CONDUCTORS  
10 AWG CONDUCTORS**

243770*	2	10	7/.0385	0.026	0.66	0.045	1.14	0.430	10.92	68	101	119	177
243820*	3	10	7/.0385	0.026	0.66	0.045	1.14	0.460	11.68	101	150	162	241
243690*	4	10	7/.0385	0.026	0.66	0.045	1.14	0.500	12.70	133	198	205	305

Dimensions and weights are nominal; subject to industry tolerances.

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

<sup>1</sup> Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.