Charlotte™ Wire & Cable Company Inc.

VNTC TRAY CABLE - #16AWG SHIELDED
TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL
TFN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277

CONSTRUCTION:

CONDUCTOR SOFT DRAWN STRANDED BARE COPPER PER ASTM B-3.

INSULATION POLYVINYLCHLORIDE WITH NYLON JACKET TYPE TFN PER UL 62 (GASOLINE AND OIL RESISTANT).

CONDUCTOR IDENTIFICATION INSULATED CONDUCTORS ARE COLOR CODED PER ICEA METHOD 1 TABLE E-2*.

ASSEMBLY CONDUCTORS ARE TWISTED TOGETHER WITH ALUMINUM/MYLAR TAPE SHIELD AND STRANDED TINNED COPPER DRAIN WIRE TO PROVIDE 100% SHIELDING COVERAGE.

OVERALL JACKET SUNLIGHT RESISTANT, FLAME RETARDANT, BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

Charlotte Wire Part#	Size AWG	Number of Conductors	Insulation Thickness (in.)	Nylon Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft
CW02151**	16	2	.015"	.004"	.045"	.30"	48
CW02152	16	3	.015"	.004"	.045"	.32"	65
CW02153	16	4	.015"	.004"	.045"	.34"	80
CW02154	16	5	.015"	.004"	.045"	.37"	96
CW02155	16	6	.015"	.004"	.045"	.40"	110
CW02156	16	7	.015"	.004"	.045"	.40"	121
CW02157	16	8	.015"	.004"	.045"	.43"	135
CW02163	16	9	.015"	.004"	.045"	.46"	149
CW02158	16	10	.015"	.004"	.045"	.50"	164
CW02159	16	12	.015"	.004"	.045"	.52"	190
CW02160	16	19	.015"	.004"	.060"	.63"	305
CW02164	16	20	.015"	.004"	.060"	.66"	320
CW02161	16	25	.015"	.004"	.060"	.73"	390
CW02165	16	30	.015"	.004"	.060"	.78"	450
CW02162	16	37	.015"	.004"	.080"	.88"	568

*To specify Method 1 Table E-1, add suffix "M1" to Charlotte Wire Part Number.
**2/c is TC only. TC-ER rating applies to 3 conductors or more.

APPLICATION:
Control, Instrumentation, Signal or Lighting circuits rated 600Volts or less where circuit protection from ambient electrical interference is needed. May be used as sunlight resistant, directly buried, and wet or dry locations. Per NEC Articles 336 and 392, approved for installation in:
1) raceways and cable tray systems including ladders, troughs, channels, solid bottom trays, and other similar structures,
2) lighting, control, and signal circuits,
3) aerial locations where supported by a messenger wire,
4) hazardous locations per Art.501 Class 1 Division 2, and
5) Class 1 circuits as permitted in NEC Article 725.

STANDARDS:
UL Standard 1277 for Type TC Cables.
Passes UL and IEEE383 70,000BTU Flame Test.
UL Standard 62 for TFN Conductors.
NEC Articles 336 and 392 for Tray Cable uses and constructions.
TC-ER rated cables comply with crush and impact requirements of MC cable.