

VNTC TRAY CABLE - #14AWG SHIELDED TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL THHN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277

CONSTRUCTION:

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

INSULATION POLYVINYLCHLORIDE WITH NYLON JACKET TYPE THHN PER UL 83 (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)
CW02251**	14	2	.015"	.004"	.045"	.33"	62
CW02252	14	3	.015"	.004"	.045"	.35"	81
CW02253	14	4	.015"	.004"	.045"	.38"	101
CW02254	14	5	.015"	.004"	.045"	.41"	121
CW02255	14	7	.015"	.004"	.045"	.45"	158
CW02256	14	9	.015"	.004"	.045"	.55"	212
CW02257	14	12	.015"	.004"	.060"	.61"	272
CW02258	14	19	.015"	.004"	.060"	.71"	405
CW02260	14	20	.015"	.004"	.060"	.72"	440
CW02261	14	25	.015"	.004"	.060"	.81"	540
CW02262	14	30	.015"	.004"	.080"	.90"	660
CW02259	14	37	.015"	.004"	.080"	.98"	780

*To specify ICEA Method 1 Table E1, 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 83 for THHN 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.