

## VNTC TRAY CABLE - #18AWG 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)
CW02050**	18	2	.015"	.004"	.045"	.27"	41
CW02051	18	3	.015"	.004"	.045"	.29"	50
CW02052	18	4	.015"	.004"	.045"	.32"	59
CW02053	18	5	.015"	.004"	.045"	.35"	71
CW02054	18	6	.015"	.004"	.045"	.37"	80
CW02059	18	7	.015"	.004"	.045"	.37"	89
CW02055	18	8	.015"	.004"	.045"	.40"	98
CW02063	18	9	.015"	.004"	.045"	.43"	112
CW02064	18	10	.015"	.004"	.045"	.46"	122
CW02056	18	12	.015"	.004"	.045"	.47"	140
CW02057	18	19	.015"	.004"	.060"	.57"	225
CW02062	18	20	.015"	.004"	.060"	.61"	245
CW02061	18	25	.015"	.004"	.060"	.67"	285
CW02058	18	37	.015"	.004"	.060"	.75"	390

\*To specify ICEA 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.