Charlotte™ Wire & Cable Company Inc.

VNTC TRAY CABLE - #12AWG NONSHIELDED
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 CABLED TOGETHER WITH A SUITABLE TAPE SEPARATOR AS NEEDED.

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)
CW02300**	12	2	.015"	.004"	.045"	.23X.36"	79
CW02301	12	3	.015"	.004"	.045"	.38"	108
CW02302	12	4	.015"	.004"	.045"	.42"	137
CW02303	12	5	.015"	.004"	.045"	.45"	166
CW02304	12	6	.015"	.004"	.045"	.49"	196
CW02305	12	7	.015"	.004"	.045"	.49"	223
CW02306	12	9	.015"	.004"	.060"	.61"	290
CW02307	12	10	.015"	.004"	.060"	.65"	330
CW02308	12	12	.015"	.004"	.060"	.67"	386
CW02309	12	15	.015"	.004"	.060"	.73"	470
CW02310	12	16	.015"	.004"	.060"	.76"	485
CW02311	12	19	.015"	.004"	.060"	.79"	584
CW02312	12	20	.015"	.004"	.060"	.81"	613
CW02313	12	25	.015"	.004"	.080"	.92"	760
CW02314	12	30	.015"	.004"	.080"	1.02"	930
CW02315	12	37	.015"	.004"	.080"	1.10"	1130

*To specify ICEA Method 1 Table E-1, add suffix "M1" to Charlotte Wire part number.
To specify ICEA Method 4 (black with printed numbers), add suffix "M4" to Charlotte Wire part number.
**2/c is flat construction and 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.