

## VNTC TRAY CABLE- 3 CONDUCTOR W/ GROUND TYPE TC-ER, SUNLIGHT RESISTANT, DIRECT BURIAL THHN CONDUCTORS, PVC JACKET, 600VOLTS, UL 1277

### CONSTRUCTION:

**CONDUCTOR** CLASS B STRANDED BARE COPPER PER ASTM B-3.

**INSULATION** POLYVINYLCHLORIDE WITH NYLON JACKET TYPE THHN/THWN PER UL 83 (GASOLINE AND OIL RESISTANT)

**CONDUCTOR IDENTIFICATION** INSULATED CONDUCTORS COLOR CODED PER ICEA METHOD 4 (BLACK CONDUCTORS WITH PRINTED NUMBERS) ON #8AWG AND LARGER. SIZES 14 THROUGH 10 COLOR CODED PER ICEA METHOD 1 TABLE E-2, WHICH IS BLK-RED-BLUE.

**ASSEMBLY** CONDUCTORS CABLED TOGETHER WITH A STRANDED COPPER GROUND WIRE IN ONE OF THE INTERSTICES, SUITABLE FILLERS FOR ROUNDNESS WHERE NEEDED, AND CABLE TAPE.

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

Charlotte Wire Part#	3 Cond'r Cable Size	Number of Strands	Insulation Thickness (in.)		Jacket Thickness (in.)	Ground Wire Size (AWG)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
			PVC	Nylon				
CW02398	14	7	.015"	.004"	.045"	14	.36"	93
CW02399	12	7	.015"	.004"	.045"	12	.40"	132
CW02400	10	7	.015"	.004"	.045"	10	.48"	195
CW02401	8	7	.030"	.005"	.060"	10	.62"	300
CW02402	6	7	.030"	.005"	.060"	8	.69"	440
CW02403	4	7	.040"	.006"	.080"	8	.88"	662
CW02417	3	7	.040"	.006"	.080"	6	.97"	860
CW02404	2	7	.040"	.006"	.080"	6	1.01"	975
CW02405	1	19	.050"	.007"	.080"	6	1.15"	1255
CW02406	1/0	19	.050"	.007"	.080"	6	1.22"	1480
CW02407	2/0	19	.050"	.007"	.080"	6	1.32"	1790
CW02408	3/0	19	.050"	.007"	.080"	4	1.43"	2190
CW02409	4/0	19	.050"	.007"	.110"	4	1.55"	2650
CW02410	250MCM	37	.060"	.008"	.110"	4	1.76"	3190
CW02411	350MCM	37	.060"	.008"	.110"	3	1.97"	4250
CW02412	500MCM	37	.060"	.008"	.110"	2	2.26"	6100
CW02416	600MCM	61	.070"	.009"	.110"	2	2.55"	7290
CW02413	750MCM	61	.070"	.009"	.110"	1	2.83"	9050
CW02414	1000MCM	61	.070"	.009"	.140"	1/0	3.17"	12940

### APPLICATION:

Power circuits rated 600Volts, 90Degrees C in dry locations and 75Degrees C in wet 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) aerial locations where supported by a messenger wire, and  
 3) hazardous locations per Art.501 Class 1 Division 2.

### 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.