

## VNTC TRAY CABLE- 4 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) .

**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# | 4 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 |                        |                        |                        |                           |
| CW02425              | 8                   | 7                 | .030"                      | .005" | .060"                  | 10                     | .67"                   | 369                       |
| CW02426              | 6                   | 7                 | .030"                      | .005" | .060"                  | 8                      | .75"                   | 545                       |
| CW02427              | 4                   | 7                 | .040"                      | .006" | .080"                  | 8                      | .96"                   | 842                       |
| CW02428              | 2                   | 7                 | .040"                      | .006" | .080"                  | 6                      | 1.11"                  | 1235                      |
| CW02429              | 1                   | 19                | .050"                      | .007" | .080"                  | 6                      | 1.26"                  | 1530                      |
| CW02430              | 1/0                 | 19                | .050"                      | .007" | .080"                  | 6                      | 1.35"                  | 1860                      |
| CW02431              | 2/0                 | 19                | .050"                      | .007" | .080"                  | 6                      | 1.46"                  | 2232                      |
| CW02432              | 3/0                 | 19                | .050"                      | .007" | .080"                  | 4                      | 1.58"                  | 2810                      |
| CW02433              | 4/0                 | 19                | .050"                      | .007" | .110"                  | 4                      | 1.77"                  | 3475                      |
| CW02434              | 250MCM              | 37                | .060"                      | .008" | .110"                  | 4                      | 1.94"                  | 4080                      |
| CW02435              | 350MCM              | 37                | .060"                      | .008" | .110"                  | 3                      | 2.19"                  | 5560                      |
| CW02436              | 500MCM              | 37                | .060"                      | .008" | .110"                  | 2                      | 2.50"                  | 7620                      |
| CW02438              | 600MCM              | 61                | .070"                      | .009" | .140"                  | 2                      | 2.86"                  | 10580                     |
| CW02437              | 750MCM              | 61                | .070"                      | .009" | .140"                  | 1                      | 3.10"                  | 11510                     |

### 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.