

### FREP/CPE TRAY CABLE 3 CONDUCTOR W/ GROUND TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL XHHW-2 CONDUCTORS, CPE JACKET, 600VOLTS

**CONSTRUCTION:**

**CONDUCTOR** CLASS B STRANDED TINNED COPPER.

**INSULATION** THERMOSETTING FLAME-RETARDANT ETHYLENE PROPYLENE RUBBER TYPE XHHW-2 PER UL 44. INSULATED CONDUCTORS RATED 90DEGREES C WET OR DRY.

**CONDUCTOR IDENTIFICATION** INSULATED CONDUCTORS COLOR CODED PER ICEA METHOD 4 (BLACK WITH PRINTED NUMBERS) ON #8 AND LARGER. SIZES #12 AND #10AWG COLOR CODED PER ICEA METHOD 1 TABLE E-2, WHICH IS BLACK-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 RESISTANT BLACK CPE PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

Charlotte Wire Part#	Size AWG	No. of C'drs	Number of Strands	Insulation Thickness (in.)	Jacket Thickness (in.)	Gnd Wire AWG	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW02656	12	3	7	.030"	.045"	12	.43"	149
CW02657	10	3	7	.030"	.045"	10	.49"	208
CW02658	8	3	7	.045"	.060"	10	.68"	332
CW02659	6	3	7	.045"	.060"	8	.76"	460
CW02660	4	3	7	.045"	.080"	8	.88"	686
CW02661	2	3	7	.045"	.080"	6	1.02"	1015
CW02662	1	3	19	.055"	.080"	6	1.16"	1275
CW02663	1/0	3	19	.055"	.080"	6	1.23"	1490
CW02664	2/0	3	19	.055"	.080"	6	1.33"	1770
CW02665	3/0	3	19	.055"	.080"	4	1.45"	2260
CW02666	4/0	3	19	.055"	.080"	4	1.57"	2650
CW02667	250MCM	3	37	.065"	.110"	4	1.76"	3230
CW02668	350MCM	3	37	.065"	.110"	3	2.00"	4320
CW02669	500MCM	3	37	.065"	.110"	2	2.28"	6080
CW02670	750MCM	3	61	.080"	.110"	1	2.84"	8990
CW02671	1000MCM	3	61	.080"	.140"	1/0	3.20"	11700

**APPLICATION:**

Power circuits rated 600Volts in power plants and heavy industrial locations where flame resistance, stability in heat, physical durability, and excellent reliability 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) aerial locations where supported by a messenger wire, and
- 3) hazardous locations per NEC Art.501 Class 1 Division 2.

**STANDARDS:**

UL 1277 for Type TC Cables.  
 Passes UL and IEEE383 70,000 BTU and ICEA 210,000BTU flame test.  
 UL Standard 44 for Rubber Insulated Wire & Cable (XHHW2).  
 ICEA S-95-658/NEMA WC70 for Nonshielded 0-2kv Cables.  
 NEC Articles 336 & 392 for Tray Cable uses and constructions.  
 TC-ER rated cables comply with crush and impact requirements of MC cable.