

### VFD TRAY CABLE 600VOLT XLP INSULATION, PVC JACKET THREE CONDUCTOR SHIELDED WITH GROUNDS TYPE TC

**CONSTRUCTION:**

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

**INSULATION** HEAT AND MOISTURE RESISTANT CROSSLINKED POLYETHYLENE (TYPE XHHW-2), PHASE IDENTIFIED BLACK INSULATION WITH NUMBERS (1 - 2 - 3).

**GROUNDS** 3 STRANDED BARE COPPER GROUNDS (ONE IN EACH INTERSTICE).

**SHIELDING** 5 MIL COPPER TAPE HELICALLY APPLIED OVER INSULATED CONDUCTORS.

**ASSEMBLY** CONDUCTORS CABLED TOGETHER WITH A STRANDED COPPER GROUND IN EACH ONE OF THE INTERSTICES AND SUITABLE FILLERS WHERE NECESSARY.

**JACKET** SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC.

Charlotte Wire Part#	Size AWG	Number of Strands	Insulation Thickness (in.)	Ground Wire Size (AWG)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)	Ampacity* 30Deg C Ambient
CW02371	14	7	.030"	3 - #18's	.045"	.43"	145	25**
CW02372	12	7	.030"	3 - #16's	.045"	.48"	195	30**
CW02373	10	7	.030"	3 - #14's	.045"	.52"	255	40**
CW02374	8	7	.045"	3 - #14's	.060"	.68"	415	55
CW02375	6	7	.045"	3 - #12's	.060"	.73"	540	75
CW02376	4	7	.045"	3 - #10's	.080"	.87"	760	95
CW02377	3	7	.045"	3 - #10's	.080"	.93"	890	115
CW02378	2	7	.045"	3 - # 8's	.080"	1.00"	1110	130
CW02379	1	19	.055"	3 - # 8's	.080"	1.11"	1330	145
CW02380	1/0	19	.055"	3 - # 6's	.080"	1.19"	1670	170
CW02381	2/0	19	.055"	3 - # 6's	.080"	1.29"	1980	195
CW02382	3/0	19	.055"	3 - # 4's	.080"	1.40"	2500	225
CW02383	4/0	19	.055"	3 - # 4's	.080"	1.52"	2990	260
CW02384	250MCM	37	.065"	3 - # 4's	.110"	1.76"	3590	290
CW02385	300MCM	37	.065"	3 - #3's	.110"	1.86"	3920	320
CW02386	350MCM	37	.065"	3 - # 2's	.110"	1.99"	4910	350
CW02387	400MCM	37	.065"	3 - #2's	.110"	2.08"	5150	380
CW02388	500MCM	37	.065"	3 - # 1's	.110"	2.28"	6700	430
CW02389	600MCM	61	.080"	3 - 1/0's	.110"	2.51"	8030	475
CW02390	750MCM	61	.080"	3 - 2/0's	.140"	2.80"	10080	535

\*Ampacity values based on ambient temperature of 30Deg C and 90Deg C conductor temperature per NEC 310.15(B)(16).

\*\*Overcurrent protection shall not exceed 15amps for 14AWG, 20amps for 12AWG, and 30amps for 10AWG (NEC).

**APPLICATION:**

Cable is suitable for use up to 600Volts 90Deg C Wet or Dry, sunlight resistant, and direct burial. XLP insulation provides good resistance to voltage spikes encountered in VFD applications. Per NEC Articles 336 & 392, approved for installation in

- 1) raceway and cable tray systems, and
- 2) hazardous locations per Article 501 Class 1 Division 2.

**STANDARDS:**

UL Standard 1277 for Type TC cables.  
 Passes UL & IEEE 70,000BTU Flame Test.  
 IEEE 1202 / CSA FT-4 Flame Tests.  
 UL Standard 44 for XHHW-2 Conductors  
 ICEA S-95-658/NEMA WC-70.  
 NEC Articles 336 & 392 For Tray Cables.