

SHIELDED VFD TRAY CABLE - 2000VOLTS

FOR VARIABLE FREQUENCY MOTOR DRIVE SYSTEMS
XLP INSULATION, PVC JACKET, TYPE TC-ER

CONSTRUCTION:

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

INSULATION FLAME RETARDANT CROSSLINKED POLYETHYLENE (XLP) TYPE RHH/RHW-2/VW1 RATED 90DEG C WET OR DRY.

CONDUCTOR IDENTIFICATION INSULATED CONDUCTORS COLOR CODED PER ICEA METHOD 4 (BLACK CONDUCTORS WITH PRINTED NUMBERS).

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

SHIELDING 5 MIL COPPER TAPE HELICALLY APPLIED OVER CONDUCTORS.

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

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 Strands	No. of Cdrs	Insulation Thickness (in.)	Ground Wire Size (AWG)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)	Ampacity 30Deg C Ambient*
CW02581	14	7	3	.060"	3 - #18's	.060"	.59"	215	25**
CW02582	12	7	3	.060"	3 - #16's	.060"	.63"	265	30**
CW02583	10	7	3	.060"	3 - #14's	.060"	.68"	335	40**
CW02584	8	7	3	.070"	3 - #14's	.060"	.78"	445	55
CW02585	6	7	3	.070"	3 - #12's	.080"	.90"	620	75
CW02586	4	7	3	.070"	3 - #12's	.080"	1.01"	840	95
CW02587	2	7	3	.070"	3 - #10's	.080"	1.14"	1160	130
CW02597	1	19	3	.090"	3 - #8's	.080"	1.27"	1440	145
CW02588	1/0	19	3	.090"	3 - #6's	.080"	1.40"	1860	170
CW02589	2/0	19	3	.090"	3 - #6's	.080"	1.49"	2180	195
CW02590	3/0	19	3	.090"	3 - #5's	.080"	1.60"	2630	225
CW02591	4/0	19	3	.090"	3 - #4's	.110"	1.79"	3250	260
CW02592	250MCM	37	3	.105"	3 - #4's	.110"	1.95"	3780	290
CW02593	300MCM	37	3	.105"	3 - #2's	.110"	2.06"	4410	320
CW02594	350MCM	37	3	.105"	3 - #2's	.110"	2.17"	5120	350
CW02595	500MCM	37	3	.105"	3 - #1's	.110"	2.47"	6950	430

*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:

For use on variable frequency motor drive systems in various industries such as automotive, pulp, and paper, and petrochemical. Cable is suitable for use up to 2000Volts 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.
 UL Standard 44 for RHH/RHW-2 Conductors.
 Passes UL & IEEE383 70,000BTU Flame Tests.
 ICEA S-95-658/NEMA WC70 for Nonshielded 0-2KV Cables.
 NEC Articles 336 & 392 for Tray Cables uses and constructions.
 TC-ER rated cables comply with crush and impact requirements of MC cable.