Charlotte™ Wire & Cable Company Inc.

XLP/PVC TRAY CABLE 3 CONDUCTOR W/GND
TYPE TC-ER SUNLIGHT RESISTANT, DIRECT BURIAL
XHHW-2 CONDUCTORS, PVC JACKET, 600VOLTS

CONSTRUCTION:

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

INSULATION FLAME-RETARDANT CROSSLINKED POLYETHYLENE (XLP) TYPE XHHW-2 PER UL 44. CONDUCTORS RATED 90DEG C WET OR DRY.

CONDUCTOR IDENTIFICATION INSULATED CONDUCTORS COLOR CODED PER ICEA METHOD 4 (BLACK WITH PRINTED NUMBERS) ON #8 AND LARGER. SIZES #14-10AWG 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 RETARDANT BLACK PVC PER UL1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, MOISTURE, AND MECHANICAL DAMAGE.

Charlotte Wire Part#	Size AWG	Number of Conductors	Insulation Thickness (in.)	Jacket Thickness (in.)	Ground Wire Size (AWG)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW02530	14	3	.030"	.045"	14	.39"	110
CW02531	12	3	.030"	.045"	12	.43"	152
CW02532	10	3	.030"	.045"	10	.49"	210
CW02533	8	3	.045"	.060"	10	.68"	336
CW02534	6	3	.045"	.060"	8	.76"	460
CW02535	4	3	.045"	.080"	8	.88"	695
CW02550	3	3	.045"	.080"	6	.96"	820
CW02536	2	3	.045"	.080"	6	1.02"	990
CW02537	1	3	.055"	.080"	6	1.16"	1278
CW02538	1/0	3	.055"	.080"	6	1.23"	1464
CW02539	2/0	3	.055"	.080"	6	1.33"	1775
CW02540	3/0	3	.055"	.080"	4	1.45"	2180
CW02541	4/0	3	.055"	.080"	4	1.57"	2640
CW02542	250MCM	3	.065"	.110"	4	1.76"	3240
CW02549	300MCM	3	.065"	.110"	3	1.91"	3790
CW02543	350MCM	3	.065"	.110"	3	2.00"	4330
CW02544	500MCM	3	.065"	.110"	2	2.28"	6120
CW02546	600MCM	3	.080"	.110"	2	2.60"	8290
CW02547	750MCM	3	.080"	.110"	1	2.84"	9010
CW02548	1000MCM	3	.080"	.140"	1/0	3.20"	12985

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 Article 501 Class 1 Division 2.

STANDARDS:

UL Standard 1277 for Type TC cables.
Passes UL and IEEE383 70,000BTU flame test.
UL Standard 44 for XHHW-2 Conductors.
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.