

**4 CONDUCTOR FLEXIBLE SHIELDED VFD TRAY CABLE
FOR VARIABLE FREQUENCY MOTOR DRIVE SYSTEMS
XLP INSULATION, PVC JACKET 90 DEGREES C WET OR DRY
TYPE TC-ER 600VOLTS , MOTOR SUPPLY CABLE 1000VOLTS**

CONSTRUCTION:

CONDUCTOR FLEXIBLE STRAND TINNED COPPER.

INSULATION CROSS-LINKED POLYETHYLENE (XLP).

CONDUCTOR IDENTIFICATION THREE CONDUCTORS TO BE BLACK AND NUMBERED (1,2,3); GROUND CONDUCTOR TO BE GREEN WITH YELLOW STRIPE.

SHIELDING ALUMINUM/MYLAR FOIL WITH TINNED DRAIN IS APPLIED OVER THE TWISTED CONDUCTOR ASSEMBLY; TINNED COPPER BRAID IS APPLIED OVER THE FOIL AND DRAIN.

OVERALL JACKET SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, AND MOISTURE.

Charlotte Wire Part #	Size AWG	Number of Conductors	Number of Strands	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW02451	18	4	19	.43"	110
CW02452	16	4	26	.50"	142
CW02453	14	4	41	.57"	188
CW02454	12	4	65	.62"	246
CW02455	10	4	105	.68"	294
CW02456	8	4	133	.90"	430
CW02457	6	4	133	1.00"	610
CW02458	4	4	133	1.18"	905
CW02459	2	4	133	1.35"	1120

APPLICATION:

A flexible and durable cable for use on variable frequency motor drive systems in various industries such as automotive, pulp and paper, and petrochemical. Cable is rated 600Volts 90Degrees C in wet or dry locations, sunlight resistant, and suitable for direct burial. XLP insulation provides good resistance to voltage spikes encountered in VFD applications.

Per NEC Articles 336 and 392, approved for installation

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

STANDARDS:

UL Standard 1277 for Type TC Cables.

1000Volts Motor Supply Cable.

NEC Articles 336 and 392 for Tray Cable Uses and Constructions.

CSA AWM I/II A/B.

TC-ER rated cables comply with crush and impact requirements of MC cable.