

**4 CONDUCTOR FLEXIBLE SHIELDED VFD TRAY CABLE  
FOR VARIABLE FREQUENCY MOTOR DRIVE SYSTEMS  
PVC/NYLON INSULATION, PVC JACKET  
TYPE TC-ER 600VOLTS AND MOTOR CABLE 1000VOLTS  
TEMPERATURE RANGE -25C TO +90C**

**CONSTRUCTION:**

**CONDUCTOR** FLEXIBLE STRAND TINNED COPPER.

**INSULATION** PVC WITH NYLON JACKET.

**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)
CW02451PN	18	4	19	.40"	110
CW02452PN	16	4	26	.46"	126
CW02453PN	14	4	41	.50"	135
CW02454PN	12	4	65	.57"	185
CW02455PN	10	4	105	.69"	282
CW02456PN	8	4	168	.89"	460
CW02457PN	6	4	266	1.00"	630
CW02458PN	4	4	413	1.19"	920
CW02459PN	2	4	665	1.40"	1350

**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 dry locations, 75Degrees C in wet locations, sunlight resistant, and suitable for direct burial. May be used in general purpose 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.