

CVTC® VFD

XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 600 V or 1000 V
UL Type TC-ER¹—Method 4 Color Code

**Product Construction:****Conductor:**

- 14 AWG thru 500 kcmil fully annealed bare stranded copper
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)—90°C, VW-1
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- 3 symmetrically placed annealed bare copper conductors in direct contact with shield
- Class B stranding per ASTM B8

Metallic Shield:

- Overall 5 mil annealed bare copper tape shield with 50% overlap

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Applications:

- For use with AC motors controlled by pulse-width modulated inverter in VFD applications rated up to 2000 volts. These motor drive systems require cables that are designed to prevent radio frequency interference (RFI) which can lead to malfunction
- In raceways, cable trays or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Overlapped bare copper tape shield provides necessary shield coverage required for Variable Frequency Drive (VFD) applications

Features (cont'd):

- Meets cold bend test at -25°C
- Meets crush and impact requirements for Type MC cable
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant

Compliances:**Industry Compliances:**

- UL 1277 Type TC-ER, 1000 V, UL File # E57179
- UL Type XHHW-2 conductors per UL 44

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 1202

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	GROUND WIRE SIZE (AWG)	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km
14 AWG - 500 kcmil CONDUCTORS														
395073V*	3	14	7W	3 x 18	0.030	0.76	0.045	1.14	0.400	14.73	88	131	180	315
395083V*	3	12	7W	3 x 16	0.030	0.76	0.045	1.14	0.440	11.18	123	183	227	337
395093V*	3	10	7W	3 x 14	0.030	0.76	0.045	1.14	0.490	12.45	178	264	283	421
395103V*	3	8	7W	3 x 14	0.045	1.14	0.060	1.52	0.650	16.51	239	355	395	587
395113V*	3	6	7W	3 x 12	0.045	1.14	0.060	1.52	0.730	18.54	357	531	553	822
395123V*	3	4	7W	3 x 12	0.045	1.14	0.080	2.03	0.865	21.97	506	753	706	1050
395133V*	3	2	7W	3 x 10	0.045	1.14	0.080	2.03	0.995	25.27	777	1156	997	1484
395143V*	3	1/0	19W	3 x 6	0.055	1.40	0.080	2.03	1.185	30.10	1308	1946	1545	2299
395153V*	3	2/0	19W	3 x 6	0.055	1.40	0.080	2.03	1.290	32.77	1568	2332	1826	2717
395163V*	3	3/0	19W	3 x 5	0.055	1.40	0.080	2.03	1.370	34.80	1950	2901	2178	3240
395173V*	3	4/0	19W	3 x 4	0.055	1.40	0.080	2.03	1.500	38.10	2441	3633	2736	4071
395183V*	3	250	37W	3 x 4	0.065	1.65	0.110	2.79	1.725	43.82	2808	4179	3121	4644
395193V*	3	350	37W	3 x 2	0.065	1.65	0.110	2.79	1.940	49.28	3966	5902	4253	6328
395203V*	3	500	37W	3 x 1	0.065	1.65	0.110	2.79	2.210	56.13	5522	8217	5687	8462

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.