

CVTC® VFD

XLPE/PVC, Low-Voltage Power, Copper Tape Shielded 2000 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



- Applications (cont'd):
- 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
 - 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, 2000 V, UL File # E57179
 - UL Type RHH or RHW-2 conductors per UL 44
- Flame Test Compliances:
- UL 1581/UL 2556 VW-1
 - UL 1685 Vertical Flame Test
 - IEEE 383
 - 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														
395070V	3	14	7W	3 x 18	0.060	1.52	0.060	1.52	0.580	14.73	91	135	212	315
395080V	3	12	7W	3 x 16	0.060	1.52	0.060	1.52	0.605	15.37	127	189	267	397
395090V	3	10	7W	3 x 14	0.060	1.52	0.060	1.52	0.655	16.64	183	272	333	495
395100V	3	8	7W	3 x 14	0.070	1.78	0.060	1.52	0.760	19.30	246	366	465	691
395110V	3	6	7W	3 x 12	0.070	1.78	0.080	2.03	0.880	22.35	368	548	650	967
395120V	3	4	7W	3 x 12	0.070	1.78	0.080	2.03	0.985	25.02	522	777	830	1236
395130V	3	2	7W	3 x 10	0.070	1.78	0.080	2.03	1.120	28.45	801	1192	1173	1746
395140V	3	1/0	19W	3 x 6	0.090	2.29	0.080	2.03	1.350	34.29	1348	2006	1818	2704
395150V	3	2/0	19W	3 x 6	0.090	2.29	0.080	2.03	1.455	36.96	1616	2405	2148	3196
395160V*	3	3/0	19W	3 x 5	0.090	2.29	0.080	2.03	1.530	38.86	2010	2991	2562	3812
395170V	3	4/0	19W	3 x 4	0.090	2.29	0.110	2.79	1.725	43.82	2517	3745	3219	4789
395180V*	3	250	37W	3 x 4	0.105	2.67	0.110	2.79	1.915	48.64	2895	4308	3672	5463
395190V	3	350	37W	3 x 2	0.105	2.67	0.110	2.79	2.130	54.10	4089	6084	5003	7445
395200V	3	500	37W	3 x 1	0.105	2.67	0.110	2.79	2.400	60.96	5693	8471	6691	9956

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.