

CVTC® VFD - Flexible Motor Supply Cable

XLPE/PVC, Low-Voltage Power, Dual Copper Tape Shielded, 1000 V UL Flexible Motor Supply and WTTC, 600 V UL Type TC-ER—Method 4 Color Code

Product Construction:

Conductor:

- 1 AWG thru 4/0 AWG tinned copper
- Class I stranding per ASTM B33, B172

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:

- Three symmetrical stranded annealed bare copper grounds per ASTM B8

Metallic Shield:

- Two spirally applied 2 mil copper tapes providing 100% coverage

Jacket:

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

Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® VFD XX/C XXAWG SHIELDED WITH GRND XLPE/PVC TYPE XHHW-2 CDRS 90°C WET OR DRY 600 V TYPE TC-ER OR 1000 V FLEX MOTOR SUPPLY OR 1000 V WTTC SUN RES (UL) DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

Options:

- Colored jackets available upon request



Applications:

- For use with AC motors controlled by pulse-width modulated inverter in VFD applications rated up to 1000 V
- In free air, raceways or direct burial
- For use in aerial, conduit, open tray and underground duct/installations
- Permitted for use in Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C wet or dry
- Dual copper tape shield provides 100% shield coverage
- Meets cold bend test at -25°C
- TC-ER rating meets crush and impact requirements for Type MC cables
- Abrasion- and chemical-resistant
- Stable electrical properties over a broad temperature range
- UV/sunlight-resistant

Features (cont'd.):

- Flexible strand conductors for all sizes to allow for ease of installation

Compliances:

Industry Compliances:

- UL 2277 1000 V Flexible Motor Supply Cable and 1000 V Wind Turbine Tray Cable
- UL 1277 600 V Type TC-ER UL File # E57179
- UL 44 Type XHHW-2 conductors
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1581 VW-1
- IEEE 1202/CSA FT4
- UL 1685

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)	NOMINAL CONDUCTOR DIAMETER		MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		NET WEIGHT	
					INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km

1 AWG - 4/0 AWG MULTI-CONDUCTORS

438190*	3	1	224W	3 x 6	0.380	9.65	0.055	1.40	0.080	2.03	1.205	30.61	1610	2396
438200	3	1/0	273W	3 x 4	0.410	10.41	0.055	1.40	0.080	2.03	1.295	32.89	2020	3006
438210	3	2/0	323W	3 x 4	0.470	11.90	0.055	1.40	0.080	2.03	1.408	35.76	2325	3460
438220*	3	3/0	456W	3 x 4	0.549	13.94	0.055	1.40	0.080	2.03	1.524	38.71	2680	3988
438230	3	4/0	551W	3 x 2	0.593	14.70	0.055	1.40	0.110	2.80	1.682	42.72	3694	5497

Dimensions and weights are nominal, subject to industry tolerances.

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