

**CVTC®**

XLPE/PVC, Control, Unshielded  
600 V, UL Type TC-ER<sup>1</sup> – E-2 Color Code

**Product Construction:**

**Conductor:**

- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

**Insulation:**

- Flame-retardant Cross-Linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

**Jacket:**

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

**Print**

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/C XXAWG FR-XLP/PVC (UL) TYPE TC-ER<sup>1</sup> XHHW-2 CDRS DIR BUR SUN RES 90°C WET OR DRY 600 V DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

**Options:**

- Tinned copper conductor
- Class C stranding
- E-1 Color Code
- Overall shielded multi conductors
- Ethylene Propylene Rubber (EPR) insulation
- Low-lead Hypalon Chlorosulfonated Polyethylene (CSPE)/Elastomer blend—see CHTC® Spec 4050
- Insulated or uninsulated ground conductor
- Other constructions available upon request

**Applications:**

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial, Class I, Div. 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

**Features:**

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent electrical properties
- Abrasion- and chemical-resistant
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

**Compliances:**

**Industry Compliances:**

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532
- ICEA S-95-658/NEMA WC 70

**Flame Test Compliances:**

- UL 1581 VW-1
- UL 1277
- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)
- CSA FT4

**Other Compliances:**

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

**Packaging:**

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



CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	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 MULTI CONDUCTORS**

770460	2 Flat	14	7/.0242	0.030	0.76	0.045	1.14	.235 x .370	5.37 x 9.40	25	37	62	92
771080*	2	14	7/.0242	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
770530	3	14	7/.0242	0.030	0.76	0.045	1.14	0.390	9.91	40	59	93	138
770610	4	14	7/.0242	0.030	0.76	0.045	1.14	0.425	10.80	53	79	116	173
770420	5	14	7/.0242	0.030	0.76	0.045	1.14	0.465	11.81	66	99	140	208
770560	7	14	7/.0242	0.030	0.76	0.045	1.14	0.590	14.99	93	138	176	262
770540	9	14	7/.0242	0.030	0.76	0.060	1.52	0.620	15.75	119	177	245	365
770470	12	14	7/.0242	0.030	0.76	0.060	1.52	0.680	17.27	159	237	302	449
770550	19	14	7/.0242	0.030	0.76	0.060	1.52	0.800	20.32	252	375	460	685
770450*	25	14	7/.0242	0.030	0.76	0.080	2.03	0.985	25.02	323	481	641	954
295320*	30	14	7/.0242	0.030	0.76	0.080	2.03	1.050	26.67	387	571	740	1101
770430*	37	14	7/.0242	0.030	0.76	0.080	2.03	1.130	28.70	490	729	888	1322

**12 AWG MULTI CONDUCTORS**

770480	2 Flat	12	7/.0305	0.030	0.76	0.045	1.14	.245 x .400	6.22 x 10.16	40	60	86	128
346920*	2	12	7/.0305	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
365720	3+ Grnd	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	86	128	143	213
770570	3	12	7/.0305	0.030	0.76	0.045	1.14	0.435	11.05	65	96	125	186
770490	4	12	7/.0305	0.030	0.76	0.045	1.14	0.475	12.07	86	128	157	234
770410	5	12	7/.0305	0.030	0.76	0.045	1.14	0.515	13.08	108	160	191	284
770950	7	12	7/.0305	0.030	0.76	0.060	1.52	0.595	15.11	150	224	260	387
770580	9	12	7/.0305	0.030	0.76	0.060	1.52	0.695	17.65	193	288	340	506
770520	12	12	7/.0305	0.030	0.76	0.060	1.52	0.780	19.81	258	385	429	638
770700*	19	12	7/.0305	0.030	0.76	0.080	2.03	0.930	23.62	403	600	681	1013
347110*	25	12	7/.0305	0.030	0.76	0.080	2.03	1.095	27.81	515	767	885	1317
347120*	30	12	7/.0305	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1005	1496
347130*	37	12	7/.0305	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1185	1764

**10 AWG MULTI CONDUCTORS**

770590	2 Flat	10	7/.0385	0.030	0.76	0.045	1.14	.290 x .480	7.37 x 12.19	66	98	114	170
346930*	2	10	7/.0385	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
770670	3+ Grnd	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	135	200	201	299
770600	3	10	7/.0385	0.030	0.76	0.045	1.14	0.485	12.32	101	150	173	257
770370	4	10	7/.0385	0.030	0.76	0.060	1.52	0.515	13.08	135	200	236	351
770380	5	10	7/.0385	0.030	0.76	0.060	1.52	0.615	15.62	167	249	287	427
770900	7	10	7/.0385	0.030	0.76	0.060	1.52	0.670	17.02	234	349	371	552
770390*	9	10	7/.0385	0.030	0.76	0.060	1.52	0.785	19.94	295	440	479	713
770400	12	10	7/.0385	0.030	0.76	0.080	2.03	0.895	22.73	402	598	644	958

Dimensions and weights are nominal; subject to industry tolerances.

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

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



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# CVTC®

XLPE/PVC, Low-Voltage Power, Unshielded  
600 V, UL Type TC-ER<sup>1</sup>—Method 4 Color Code



**Features:**

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

**Product Construction:**

**Conductor:**

- 14 AWG thru 750 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

**Insulation:**

- Flame-retardant Cross-Linked Polyethylene (XLPE)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

**Ground:**

- Uninsulated bare annealed copper per ASTM B3
- Class B stranding per ASTM B8

**Jacket:**

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

**Print:**

- GENERAL CABLE® (PLANT OF MFG) CVTC® XX/C XXAWG WITH GRND FR-XLP/PVC UL

**Print (cont'd.):**

TYPE TC-ER<sup>1</sup> XHHW-2 CDRS 90°C WET OR DRY  
DIR BUR SUN RES 600 V DAY/MONTH/YEAR  
SEQUENTIAL FOOTAGE MARK

**Options:**

- Tinned copper conductor
- Class C stranding
- E-1 or E-2 Color Code
- Insulated ground conductors
- Overall shielded multi conductors
- Flame-retardant Ethylene Propylene Rubber (EPR) insulation
- Low-lead Hypalon Chlorosulfonated Polyethylene (CSPE)/Elastomer blend—see CHTC® Spec 4100
- ICEA 1000 V rated cable
- Other constructions available upon request

**Applications:**

- In free air, raceways 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

**Compliances:**

- Industry Compliances:**
- UL 44 Type XHHW-2
  - UL 1277 Type TC-ER, UL File # E57179
  - UL 1581
  - ICEA S-95-658/NEMA WC70
- Flame Test Compliances:**
- UL 1581 VW-1
  - UL 1277
  - IEEE 383
  - IEEE 1202
  - ICEA T-29-520 (210,000 BTU/hr)
  - CSA FT4
- Other Compliances:**
- EPA 40 CFR, Part 261 for leachable lead content per TCLP
  - OSHA Acceptable

**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 – 750 kcmil MULTI CONDUCTORS**

383860*	3	14	7/.0242	14	0.030	0.76	0.045	1.14	0.390	9.91	53	79	116	173
383870*	3	12	7/.0305	12	0.030	0.76	0.045	1.14	0.435	11.05	86	128	157	234
383880*	3	10	7/.0385	10	0.030	0.76	0.060	1.52	0.485	12.32	135	200	236	351
783160	3	8	7/.0486	10	0.045	1.14	0.060	1.52	0.640	16.26	190	283	314	467
783190	4	8	7/.0486	10	0.045	1.14	0.060	1.52	0.705	17.91	242	360	385	573
339470	3	6	7/.0612	8	0.045	1.14	0.060	1.52	0.720	18.29	301	448	445	662
339480	4	6	7/.0612	8	0.045	1.14	0.060	1.52	0.790	20.07	384	571	558	830
783330	3	4	7/.0772	8	0.045	1.14	0.080	2.03	0.875	22.23	448	667	653	972
339500*	4	4	7/.0772	8	0.045	1.14	0.080	2.03	0.950	24.13	578	862	820	1220
325610	3	2	7/.0974	6	0.045	1.14	0.080	2.03	1.000	25.40	716	1066	964	1435
339520*	4	2	7/.0974	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1368	1214	1807
352150*	3	1	19/.0664	6	0.055	1.40	0.080	2.03	1.120	28.45	872	1298	1199	1784
371250*	4	1	19/.0664	6	0.055	1.40	0.080	2.03	1.235	31.37	1136	1691	1704	2536
339530	3	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.215	30.86	1081	1609	1414	2104
339540*	4	1/0	19/.0745	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2103	1825	2716
339550	3	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.310	33.27	1341	1996	1706	2539
339560*	4	2/0	19/.0837	6	0.055	1.40	0.080	2.03	1.450	36.83	1760	2619	2223	3308
371260*	3	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3627
371270*	4	3/0	19/.0940	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4648
783230	3	4/0	19/.1055	4	0.055	1.40	0.080	2.03	1.540	39.12	2132	3173	2600	3869
339570*	4	4/0	19/.1055	4	0.055	1.40	0.110	2.79	1.765	44.83	2796	4161	3444	5125
328540*	3	250	37/.0822	4	0.065	1.65	0.110	2.79	1.750	44.45	2494	3712	3142	4676
339590*	4	250	37/.0822	4	0.065	1.65	0.110	2.79	1.930	49.02	3282	4884	4048	6024
222570	3	350	37/.0973	3	0.065	1.65	0.110	2.79	1.970	50.04	3474	5170	4230	6295
339600*	4	350	37/.0973	3	0.065	1.65	0.110	2.79	2.180	55.37	4577	6811	5470	8140
222710	3	500	37/.1162	2	0.065	1.65	0.110	2.79	2.250	57.15	4938	7349	5829	8675
06790.086500*	4	500	37/.1162	2	0.065	1.65	0.110	2.79	2.475	62.87	6509	9687	7579	11279
06790.077000*	3	750	61/.1109	1	0.080	2.03	0.140	3.56	2.810	71.37	7278	10831	9101	13544
06790.047000*	4	750	61/.1109	1	0.080	2.03	0.140	3.56	3.115	79.12	9712	14453	11746	17480

Dimensions and weights are nominal; subject to industry tolerances.

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

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



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# CVTC® VFD

XLPE/PVC, Low-Voltage Power, Shielded  
2000 V, UL Type TC-ER<sup>1</sup>—Method 4 Color Code

**Product Construction:**

**Conductor:**

- 14 AWG thru 500 kcmil fully annealed tinned 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 tinned copper conductors in direct contact with shield
- Class B stranding per ASTM B8

**Dual Shield:**

- Overall tinned copper braided shield in conjunction with an aluminum/polymer tape shield

**Jacket:**

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

**Print:**

- GENERAL CABLE® (PLANT OF MFG) CVTC® VFD XX/C XXAWG WITH GRND FR-XLP/PVC (UL) TYPE TC-ER RHH or RHW-2 CDRS 90°C WET OR DRY 2000 V DIR BUR SUN RES DAY/MONTH/YEAR SEQUENTIAL FOOTAGE MARK



**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
- Dual shield provides maximum shield coverage required for Variable Frequency Drive (VFD) applications
- Meets cold bend test at -25°C
- Meets crush and impact requirements to Type MC cable

**Features (cont'd):**

- Abrasion- and chemical-resistant
- Excellent electrical properties
- Sunlight- and weather-resistant

**Compliances:**

**Industry Compliances:**

- UL 1277 Type TC-ER, UL File # E57179
- UL Type RHH or RHW-2 conductors per UL 44

**Flame Test Compliances:**

- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)

**Other Compliances:**

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

**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 MULTI CONDUCTORS**

384730*	3	14	7/.0242	3 x 18	0.060	1.52	0.060	1.52	0.565	14.35	79	118	190	283
384740*	3	12	7/.0305	3 x 16	0.060	1.52	0.060	1.52	0.605	15.37	114	170	236	351
384750*	3	10	7/.0385	3 x 14	0.060	1.52	0.060	1.52	0.665	16.89	172	256	313	466
384760*	3	8	7/.0486	3 x 14	0.070	1.78	0.060	1.52	0.785	19.94	234	348	420	625
384770*	3	6	7/.0612	3 x 12	0.070	1.78	0.080	2.03	0.910	23.11	354	527	605	900
384780*	3	4	7/.0772	3 x 12	0.070	1.78	0.080	2.03	1.010	25.65	507	755	800	1191
384790*	3	2	7/.0974	3 x 10	0.070	1.78	0.080	2.03	1.315	28.83	783	1165	1126	1676
384800*	3	1/0	19/.0745	3 x 6	0.090	2.29	0.080	2.03	1.390	35.31	1251	1861	1832	2726
384810*	3	2/0	19/.0837	3 x 6	0.090	2.29	0.080	2.03	1.490	37.85	1511	2248	2134	3175
384820*	3	3/0	19/.0940	3 x 5	0.090	2.29	0.080	2.03	1.595	40.51	1897	2823	2553	3799
384830*	3	4/0	19/.1055	3 x 4	0.090	2.29	0.110	2.79	1.775	45.09	2355	3504	3254	4842
384840*	3	250	37/.0822	3 x 4	0.105	2.67	0.110	2.79	1.940	49.28	2719	4046	3726	5544
384850*	3	350	37/.0973	3 x 2	0.105	2.67	0.110	2.79	2.160	54.86	3883	5778	5040	7500
384860*	3	500	37/.1162	3 x 1	0.105	2.67	0.110	2.79	2.440	61.98	5507	8194	6809	10132

Dimensions and weights are nominal; subject to industry tolerances.

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

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



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# CVTC® VFD

XLPE/PVC, Low-Voltage Power, Copper Tape Shielded  
2000 V, UL Type TC-ER—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)

### Print:

- GENERAL CABLE® (PLANT OF MFG) CVTC® VFD XX/C XXAWG WITH GRNDS FR-XLP/PVC (UL) TYPE TC-ER RHH or RHW-2 CDRS 90°C WET OR DRY 2000 V DIR BUR SUN RES DAY/MONTH/YEAR SEQUENTIAL FOOTAGE MARK

### 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
- 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:

- IEEE 383
- IEEE 1202
- ICEA T-29-520 (210,000 BTU/hr)

### Other Compliances:

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

## 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
<b>14 AWG - 500 kcmil MULTI CONDUCTORS</b>														
395070V	3	14	7/.0242	3 x 18	0.060	1.52	0.060	1.52	0.580	14.73	91	135	212	315
395080V	3	12	7/.0305	3 x 16	0.060	1.52	0.060	1.52	0.615	15.37	127	189	260	387
395090V	3	10	7/.0385	3 x 14	0.060	1.52	0.060	1.52	0.670	17.02	183	272	329	490
395100V	3	8	7/.0486	3 x 14	0.070	1.78	0.060	1.52	0.770	19.56	246	366	441	656
395110V	3	6	7/.0612	3 x 12	0.070	1.78	0.080	2.03	0.895	22.73	368	548	618	920
395120V	3	4	7/.0772	3 x 12	0.070	1.78	0.080	2.03	0.995	25.27	522	777	830	1235
395130V	3	2	7/.0974	3 x 10	0.070	1.78	0.080	2.03	1.125	28.58	801	1192	1152	1714
395140V	3	1/0	19/.0745	3 x 6	0.090	2.29	0.080	2.03	1.385	35.18	1348	2006	1853	2757
395150V	3	2/0	19/.0837	3 x 6	0.090	2.29	0.080	2.03	1.480	37.59	1616	2405	2169	3227
395160V*	3	3/0	19/.0940	3 x 5	0.090	2.29	0.080	2.03	1.590	40.39	2010	2991	2619	3897
395170V	3	4/0	19/.1055	3 x 4	0.090	2.29	0.110	2.79	1.780	45.21	2517	3745	3241	4823
395180V*	3	250	37/.0822	3 x 4	0.105	2.67	0.110	2.79	1.940	49.28	2895	4308	3763	5599
395190V	3	350	37/.0973	3 x 2	0.105	2.67	0.110	2.79	2.160	54.86	4089	6084	5109	7602
395200V	3	500	37/.1162	3 x 1	0.105	2.67	0.110	2.79	2.455	62.36	5693	8471	6933	10316

Dimensions and weights are nominal; subject to industry tolerances.

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