

CHTC®

XLPE/PVC, Control, Unshielded
600 V or 1000 V, UL Type TC-ER¹-E-2 Color Code

Product Construction:

- Conductor:**
- 14 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B5
 - 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 Poly(vinyl Chloride) (PVC)

- Applications:**
- In free air, cable tray, 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 for 3 or more conductors

- Features:**
- Rated at 90°C wet or dry
 - Ripcord applied to all cables with jacket of 60 mils or less
 - Meets cold bend test at -25°C
 - Type ER versions meets crush and impact requirements of Type MC cables.
 - Sunlight- and weather-resistant
 - Excellent flame resistance
 - Excellent physical, thermal and electrical properties
 - Excellent moisture resistance
 - Good resistance to abrasion and heat deformation
 - Provides good oil and chemical resistance

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/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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]	COND. STRAND	MINIMUM AVG. INSULATION THICKNESS		MINIMUM AVG. JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT	
				IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km

14 AWG CONDUCTORS													
770460	2 Flat	14	7W	0.030	0.76	0.045	1.14	.225 x .360	5.72 x 9.14	25	38	60	89
771080*	2	14	7W	0.030	0.76	0.045	1.14	0.365	9.27	25	37	73	109
770530	3	14	7W	0.030	0.76	0.045	1.14	0.380	9.65	39	58	87	129
770610	4	14	7W	0.030	0.76	0.045	1.14	0.415	10.54	52	77	109	162
770420	5	14	7W	0.030	0.76	0.045	1.14	0.455	11.56	65	96	131	195
770560	7	14	7W	0.030	0.76	0.045	1.14	0.495	12.57	91	135	172	255
770540	9	14	7W	0.030	0.76	0.060	1.52	0.605	15.37	116	173	241	358
770470	12	14	7W	0.030	0.76	0.060	1.52	0.685	17.40	155	231	303	451
770550	19	14	7W	0.030	0.76	0.060	1.52	0.795	20.19	246	366	449	668
770450*	25	14	7W	0.030	0.76	0.080	2.03	0.985	25.02	323	481	641	954
295320*	30	14	7W	0.030	0.76	0.080	2.03	1.050	26.67	387	571	740	1101
770430*	37	14	7W	0.030	0.76	0.080	2.03	1.130	28.70	490	729	888	1322

12 AWG CONDUCTORS													
770480	2 Flat	12	7W	0.030	0.76	0.045	1.14	.245 x .395	6.22 x 10.03	40	60	79	118
346920*	2	12	7W	0.030	0.76	0.045	1.14	0.410	10.41	41	61	96	143
365720	3+ Cmil ²	12	7W	0.030	0.76	0.045	1.14	0.430	10.92	82	122	137	204
770570	3	12	7W	0.030	0.76	0.045	1.14	0.420	10.67	62	92	116	173
770490	4	12	7W	0.030	0.76	0.045	1.14	0.460	11.68	82	122	147	219
770410	5	12	7W	0.030	0.76	0.045	1.14	0.500	12.70	103	153	180	268
770950	7	12	7W	0.030	0.76	0.060	1.52	0.585	14.86	144	214	258	384
770580	9	12	7W	0.030	0.76	0.060	1.52	0.680	17.27	185	275	327	487
770520	12	12	7W	0.030	0.76	0.060	1.52	0.755	19.18	247	367	413	614
770700*	19	12	7W	0.030	0.76	0.080	2.03	0.930	23.62	391	581	662	986
347110*	25	12	7W	0.030	0.76	0.080	2.03	1.095	27.81	515	767	885	1317
347120*	30	12	7W	0.030	0.76	0.080	2.03	1.150	29.21	618	920	1005	1496
347130*	37	12	7W	0.030	0.76	0.080	2.03	1.240	31.50	741	1103	1185	1764

10 AWG CONDUCTORS													
770590	2 Flat	10	7W	0.030	0.76	0.045	1.14	.270 x .445	6.86 x 11.30	64	95	108	160
346930*	2	10	7W	0.030	0.76	0.045	1.14	0.455	11.56	67	100	130	193
770670	3+ Cmil ²	10	7W	0.030	0.76	0.045	1.14	0.490	12.45	131	195	193	287
770600	3	10	7W	0.030	0.76	0.045	1.14	0.470	11.94	98	146	159	237
770370	4	10	7W	0.030	0.76	0.060	1.52	0.550	13.97	131	195	220	327
770380	5	10	7W	0.030	0.76	0.060	1.52	0.605	15.37	164	243	272	404
770900	7	10	7W	0.030	0.76	0.060	1.52	0.650	16.51	229	341	353	525
770390*	9	10	7W	0.030	0.76	0.060	1.52	0.765	19.43	294	438	460	685
770400	12	10	7W	0.030	0.76	0.080	2.03	0.895	22.73	392	584	615	914

¹ Dimensions and weights are nominal, subject to industry tolerances.
² Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.
³ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.
⁴ Uninsulated tinned copper ground supplied where noted.

CVTC®

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



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

- Jacket:**
- Lead-free, flame-retardant, sunlight-resistant Poly(vinyl Chloride) (PVC)

Applications:

- In free air, cable tray, 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 for 3 or more conductors

Features:

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance

Features (cont'd):

- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Compliances (cont'd):

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

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 - 750 kcmil CONDUCTORS														
383860*	3	14	7W	14	0.030	0.76	0.045	1.14	0.390	9.91	53	79	116	173
383870*	3	12	7W	12	0.030	0.76	0.045	1.14	0.430	10.92	82	122	137	204
383880*	3	10	7W	10	0.030	0.76	0.060	1.52	0.485	12.32	135	201	236	351
783160	3	8	7W	10	0.045	1.14	0.060	1.52	0.640	16.26	189	281	308	458
783190	4	8	7W	10	0.045	1.14	0.060	1.52	0.710	18.03	241	358	384	572
339470	3	6	7W	8	0.045	1.14	0.060	1.52	0.720	18.29	300	446	431	642
339480	4	6	7W	8	0.045	1.14	0.060	1.52	0.820	20.83	382	569	552	822
783330	3	4	7W	8	0.045	1.14	0.080	2.03	0.870	22.10	447	665	643	956
339500*	4	4	7W	8	0.045	1.14	0.060	1.52	0.950	24.15	578	860	820	1220
325610	3	2	7W	6	0.045	1.14	0.080	2.03	1.000	25.40	710	1056	937	1394
339520*	4	2	7W	6	0.045	1.14	0.080	2.03	1.095	27.81	919	1367	1214	1806
352150*	3	1	19W	6	0.055	1.40	0.080	2.03	1.100	27.94	875	1302	1140	1697
371250*	4	1	19W	6	0.055	1.40	0.080	2.03	1.235	31.37	1186	1690	1704	2536
339530	3	1/0	19W	6	0.055	1.40	0.080	2.03	1.185	30.10	1080	1607	1362	2027
339540*	4	1/0	19W	6	0.055	1.40	0.080	2.03	1.340	34.04	1413	2103	1825	2716
339550	3	2/0	19W	6	0.055	1.40	0.080	2.03	1.290	32.77	1340	1994	1666	2480
339560*	4	2/0	19W	6	0.055	1.40	0.080	2.03	1.425	36.20	1759	2618	2180	3244
371260*	3	3/0	19W	4	0.055	1.40	0.080	2.03	1.420	36.07	1717	2555	2437	3626
371270*	4	3/0	19W	4	0.055	1.40	0.080	2.03	1.570	39.88	2245	3341	3123	4647
783230	3	4/0	19W	4	0.055	1.40	0.080	2.03	1.500	38.10	2130	3169	2501	3721
339570*	4	4/0	19W	4	0.055	1.40	0.110	2.79	1.720	43.69	2796	4160	3318	4937
328540*	3	250	37W	4	0.065	1.65	0.110	2.79	1.7					