

TYPE TC - CONTROL CABLE

XLP Insulation 600 Volt 90°C CPE Jacket E-1

14 - 10 AWG • 600 Volts • 90°C Wet or Dry

14 AWG (7 x .0242" Stranding)				
PART NUMBER	NO. OF CONDS.	OVERALL JACKET THICK. (MILS)	APPROX. OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)
02-0815	2 FL	45	.225x.360	48
02-0817	2 RD	45	.365	52
02-0819	3	45	.385	79
02-0821	4	45	.420	100
02-0823	5	45	.460	122
02-0825	6	45	.500	144
02-0827	7	45	.500	159
02-0829	8	60	.570	179
02-0831	9	60	.610	222
02-0833	10	60	.640	241
02-0835	11	60	.655	265
02-0837	12	60	.675	276
02-0839	13	60	.700	290
02-0841	14	60	.725	313
02-0843	15	60	.745	334
02-0845	16	60	.765	357
02-0847	17	60	.785	380
02-0849	18	60	.805	402
02-0851	19	60	.805	407
02-0853	20	80	.870	412
02-0855	21	80	.890	433
02-0857	22	80	.910	454
02-0859	23	80	.930	474
02-0861	24	80	.945	495
02-0863	25	80	.955	579
02-0865	26	80	.970	581
02-0867	27	80	.980	603
02-0869	28	80	1.000	625
02-0871	29	80	1.015	648
02-0873	30	80	1.035	657
02-0875	31	80	1.040	692
02-0877	32	80	1.055	715
02-0879	33	80	1.075	737
02-0881	34	80	1.085	759
02-0883	35	80	1.100	782
02-0885	36	80	1.120	804
02-0887	37	80	1.120	788
02-0889	38	80	1.130	783
02-0891	40	80	1.160	825
02-0893	50	80	1.270	1031
02-0895	60	80	1.380	1237
02-0897	61	80	1.380	1258

12 AWG (7 x .0305" Stranding)				
PART NUMBER	NO. OF CONDS.	OVERALL JACKET THICK. (MILS)	APPROX. OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)
02-0899	2 FL	45	.245x.400	66
02-0901	2 RD	45	.400	71
02-0903	3	45	.425	108
02-0905	4	45	.465	137
02-0907	5	45	.510	169
02-0909	6	60	.585	199
02-0911	7	60	.585	240
02-0913	8	60	.635	265
02-0915	9	60	.680	303
02-0917	10	60	.710	331
02-0919	11	60	.730	364
02-0921	12	60	.755	389
02-0923	13	60	.780	430
02-0925	14	60	.810	464
02-0927	15	60	.840	479
02-0929	16	80	.895	530
02-0931	17	80	.920	563
02-0933	18	80	.940	596
02-0935	19	80	.940	606
02-0937	20	80	.970	662
02-0939	21	80	.990	695
02-0941	22	80	1.015	728
02-0943	23	80	1.035	762
02-0945	24	80	1.050	795
02-0947	25	80	1.065	782
02-0949	26	80	1.085	795
02-0951	27	80	1.095	825
02-0953	28	80	1.115	856
02-0955	29	80	1.130	886
02-0957	30	80	1.160	923
02-0959	31	80	1.165	947
02-0961	32	80	1.180	978
02-0963	33	80	1.205	1009
02-0965	34	80	1.215	1039
02-0967	35	80	1.230	1070
02-0969	36	80	1.250	1100
02-0971	37	80	1.250	1118
02-0973	38	80	1.275	1161
02-0975	40	80	1.375	1223
02-0977	50	80	1.425	1528
02-0979	60	80	1.585	1834
02-0981	61	80	1.585	1864

10 AWG (7 x .0385" Stranding)				
PART NUMBER	NO. OF CONDS.	OVERALL JACKET THICK. (MILS)	APPROX. OUTSIDE DIAMETER (IN)	APPROX. WEIGHT 1000 FT. (POUNDS)
02-0983	2 FL	45	.270x.450	96
02-0985	2 RD	45	.450	100
02-0987	3	45	.475	151
02-0989	4	60	.550	208
02-0991	5	60	.605	254
02-0993	6	60	.660	299
02-0995	7	60	.660	336
02-0997	8	60	.715	399
02-0999	9	60	.765	432
02-1001	10	60	.800	499
02-1003	11	60	.825	549
02-1005	12	80	.890	581
02-1007	13	80	.925	649
02-1009	14	80	.955	699
02-1011	15	80	.980	708
02-1013	16	80	1.010	737
02-1015	17	80	1.035	783
02-1017	18	80	1.060	829
02-1019	19	80	1.060	873
02-1021	20	80	1.095	921
02-1023	21	80	1.115	967
02-1025	22	80	1.150	1013
02-1027	23	80	1.170	1060
02-1029	24	80	1.190	1106
02-1031	25	80	1.205	1127
02-1033	26	80	1.225	1198
02-1035	27	80	1.240	1244
02-1037	28	80	1.265	1290
02-1039	29	80	1.280	1336
02-1041	30	80	1.310	1334
02-1043	31	80	1.320	1428
02-1045	32	80	1.340	1474
02-1047	33	80	1.365	1520
02-1049	34	80	1.375	1566
02-1051	35	80	1.395	1612
02-1053	36	80	1.420	1658
02-1055	37	80	1.420	1617
02-1057	38	-	-	-
02-1059	40	-	-	-
02-1061	50	-	-	-
02-1063	60	-	-	-
02-1065	61	-	-	-

SCOPE:

This specification covers the minimum construction requirements for multi-conductor (UL) listed Type TC cable consisting of Class B stranded annealed tinned copper, insulated with cross-linked polyethylene, cabled together and jacketed overall with a chlorinated polyethylene (CPE) jacket.

APPLICATIONS:

UL listed and OSHA acceptable. Recognized for use in Class 1 or 2, Division 2 hazardous locations. Suitable for use in cable trays, raceways, ducts and conduits, direct burial or supported by a messenger for use at temperature ratings not exceeding 90°C in wet or dry locations and outdoors where a sunlight resistant rating is required. These cables shall conform to (UL) Type TC Power and Control Tray Cables and National Electrical Code Articles 336, 392, 500 and 501. These cables pass the IEEE-383 70,000 BTU flame test the IEEE 1202/FT4 flame test and the ICEA T-90-520 210,000 BTU flame test., Cables pass a -40°C cold bend test. Designed for control, power, lighting, telemetry, signals and relay or traffic control.

CONSTRUCTION:

CONDUCTORS

Class B (7 wires) annealed tinned copper conforming to ASTM B-33 and B-8.

INSULATION:

A chemically cross-linked polyethylene (XLP) shall be applied concentrically over each conductor and shall conform to (UL) Standard 44 for Type XHHW-2 (Class XL, Table 50.231) and ICEA S-73-532 Part 3. The minimum average wall thickness is 30 mils.

CABLING ASSEMBLY:

The applicable number of conductors are cabled together with non-hygroscopic fillers (as necessary).

OVERALL JACKET:

A black, flame, moisture, oil and sunlight resistant chlorinated polyethylene (CPE) jacket meeting the requirements of UL-1277 Table 11.1 shall be applied concentrically overall. The physical properties of the jacket comply with Table 50.28 of UL-1581. A high strength nylon yarn rip cord shall be placed under the jacket to facilitate stripping of the jacket.

COLOR CODING:

Method 1, Table E-1 using solid colors with stripes. Refer to Color Code Conversion Chart 3 on page Z.15

TESTING:

These cables shall be tested physically and electrically in accordance with procedures as outlined by Underwriters' Laboratories, Inc. Standard 1277 for Type TC Power and Control Tray Cables.

» Information on this sheet is subject to change without notice.

All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.