

TYPE TC - CONTROL CABLE

XLP Insulation 600 Volt 90°C CPE Jacket E-2

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)
02-1067	2 FL	45	.225x.360	48
02-1069	2 RD	45	.365	52
02-1071	3	45	.385	79
02-1073	4	45	.420	100
02-1075	5	45	.460	122
02-1077	6	45	.500	144
02-1079	7	45	.500	159
02-1081	8	60	.570	179
02-1083	9	60	.610	222
02-1085	10	60	.640	241
02-1087	11	60	.655	265
02-1089	12	60	.675	276
02-1091	13	60	.700	290
02-1093	14	60	.725	313
02-1095	15	60	.745	334
02-1097	16	60	.765	357
02-1099	17	60	.785	380
02-1101	18	60	.805	402
02-1103	19	60	.805	407
02-1105	20	80	.870	412
02-1107	21	80	.890	433
02-1109	22	80	.910	454
02-1111	23	80	.930	474
02-1113	24	80	.945	495
02-1115	25	80	.955	579
02-1117	26	80	.970	581
02-1119	27	80	.980	603
02-1121	28	80	1.000	625
02-1123	29	80	1.015	648
02-1125	30	80	1.035	657
02-1127	31	80	1.040	692
02-1129	32	80	1.055	715
02-1131	33	80	1.075	737
02-1133	34	80	1.085	759
02-1135	35	80	1.100	782
02-1137	36	80	1.120	804
02-1139	37	80	1.120	788
02-1141	38	80	1.130	783
02-1143	40	80	1.160	825
02-1145	50	80	1.270	1031
02-1147	60	80	1.380	1237
02-1149	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)
02-1151	2 FL	45	.245x.400	66
02-1153	2 RD	45	.400	71
02-1155	3	45	.425	108
02-1157	4	45	.465	137
02-1159	5	45	.510	169
02-1161	6	60	.585	199
02-1163	7	60	.585	240
02-1165	8	60	.635	265
02-1167	9	60	.680	303
02-1169	10	60	.710	331
02-1171	11	60	.730	364
02-1173	12	60	.755	389
02-1175	13	60	.780	430
02-1177	14	60	.810	464
02-1179	15	60	.840	479
02-1181	16	80	.895	530
02-1183	17	80	.920	563
02-1185	18	80	.940	596
02-1187	19	80	.940	606
02-1189	20	80	.970	662
02-1191	21	80	.990	695
02-1193	22	80	1.015	728
02-1195	23	80	1.035	762
02-1197	24	80	1.050	795
02-1199	25	80	1.065	782
02-1201	26	80	1.085	795
02-1203	27	80	1.095	825
02-1205	28	80	1.115	856
02-1207	29	80	1.130	886
02-1209	30	80	1.160	923
02-1211	31	80	1.165	947
02-1213	32	80	1.180	978
02-1215	33	80	1.205	1009
02-1217	34	80	1.215	1039
02-1219	35	80	1.230	1070
02-1221	36	80	1.250	1100
02-1223	37	80	1.250	1118
02-1225	38	80	1.275	1161
02-1227	40	80	1.375	1223
02-1229	50	80	1.425	1528
02-1231	60	80	1.585	1834
02-1233	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)
02-1235	2 FL	45	.270x.450	96
02-1237	2 RD	45	.450	100
02-1239	3	45	.475	151
02-1241	4	60	.550	208
02-1243	5	60	.605	254
02-1245	6	60	.660	299
02-1247	7	60	.660	336
02-1249	8	60	.715	399
02-1251	9	60	.765	432
02-1253	10	60	.800	499
02-1255	11	60	.825	549
02-1257	12	80	.890	581
02-1259	13	80	.925	649
02-1261	14	80	.955	699
02-1263	15	80	.980	708
02-1265	16	80	1.010	737
02-1267	17	80	1.035	783
02-1269	18	80	1.060	829
02-1271	19	80	1.060	873
02-1273	20	80	1.095	921
02-1275	21	80	1.115	967
02-1277	22	80	1.150	1013
02-1279	23	80	1.170	1060
02-1281	24	80	1.190	1106
02-1283	25	80	1.205	1127
02-1285	26	80	1.225	1198
02-1287	27	80	1.240	1244
02-1289	28	80	1.265	1290
02-1291	29	80	1.280	1336
02-1293	30	80	1.310	1334
02-1295	31	80	1.320	1428
02-1297	32	80	1.340	1474
02-1299	33	80	1.365	1520
02-1301	34	80	1.375	1566
02-1303	35	80	1.395	1612
02-1305	36	80	1.420	1658
02-1307	37	80	1.420	1617
02-1309	38	-	-	-
02-1311	40	-	-	-
02-1313	50	-	-	-
02-1315	60	-	-	-
02-1317	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-2 using solid colors with longitudinal or spiral stripes. Refer to Color Code Conversion Chart 2 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.