

TYPE TC - CONTROL CABLE w/GROUND

FR-EPR Insulation 600 Volt 90°C CPE Jacket

8 AWG - 500 KCMIL • 600 Volts • 90°C Wet or Dry

PART NUMBER	SIZE AWG OR KCMIL	NO. OF CONDS.	STRANDING (INCHES)	INSULATION WALL (MILS)	GROUNDING CONDUCTOR SIZE AWG	OVERALL JACKET THICK. (MILS)	OVERALL JACKET DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
02-1319	8	3	7x.0486	45	10	60	.660	318
02-1321	8	4	7x.0486	45	10	60	.725	388
02-1323	6	3	7x.0612	45	8	60	.740	454
02-1325	6	4	7x.0612	45	8	60	.820	563
02-1327	4	3	7x.0772	45	8	80	.885	660
02-1329	4	4	7x.0772	45	8	80	.970	826
02-1331	2	3	7x.0974	45	6	80	1.010	966
02-1333	2	4	7x.0974	45	6	80	1.120	1210
02-1335	1	3	19x.0664	55	6	80	1.125	1155
02-1337	1	4	19x.0664	55	6	80	1.260	1577
02-1339	1/0	3	19x.0745	55	6	80	1.210	1503
02-1341	1/0	4	19x.0745	55	6	80	1.340	1912
02-1343	2/0	3	19x.0837	55	6	80	1.310	1811
02-1345	2/0	4	19x.0837	55	6	80	1.450	2402
02-1347	3/0	3	19x.0940	55	4	80	1.420	2240
02-1349	3/0	4	19x.0940	55	4	80	1.575	2879
02-1351	4/0	3	19x.1055	55	4	80	1.540	2750
02-1353	4/0	4	19x.1055	55	4	110	1.775	3573
02-1355	250	3	37x.0822	65	4	110	1.745	3273
02-1357	250	4	37x.0822	65	4	110	1.935	4206
02-1359	350	3	37x.0973	65	3	110	1.965	4389
02-1361	350	4	37x.0973	65	3	110	2.185	5809
02-1363	500	3	37x.1162	65	2	110	2.245	6094
02-1365	500	4	37x.1162	65	2	110	2.495	7794

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 with a tinned copper grounding conductor 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-29-520 210,000 BTU flame test. Cables pass a -40°C cold bend test.

Designed for power distribution, pumps, motors and controls and heavy industrial equipment.

CONSTRUCTION:

CONDUCTORS

Class B annealed tinned copper conforming to ASTM B-33 and B-8.

INSULATION:

Flame retardant EPR shall be applied concentrically over each conductor and shall conform to (UL).

GROUNDING CONDUCTOR:

Class B stranded tinned copper.

CABLING ASSEMBLY:

The applicable number of conductors are cabled together with the grounding conductor and fillers (only as necessary) to form a round core. A clear mylar tape is wrapped over the core.

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 rip cord shall be placed under the jacket to facilitate stripping of the jacket on cables with jackets of 80 mils or less.

COLOR CODING:

Black insulation with ICEA Method 4 printed numbers.

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.