

# UL Type TC Tray Control, Multi-Conductor, 600/1000 V

Tray Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations in -40°C (-40°F) environments. Applicable for use in Utilities, Industrial and Commercial applications.

## Standards:



# TC-ER

## Product Construction

### Insulation:

- FR XLPE (XHHW-2 rated) rated: 90°C wet/dry
- VW-1 rated (optional)

### Jacket:

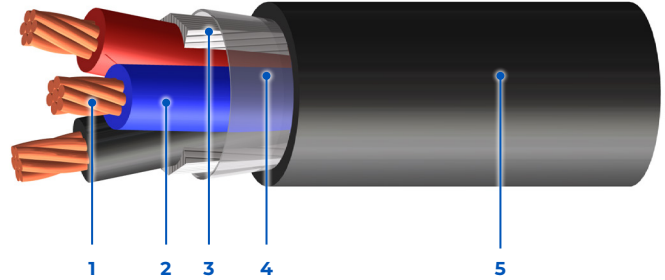
- FR PVC outer black jacket rated: 90°C to -40°C
- Thermoset CPE (optional)
- Thermoplastic CPE (optional)
- Thermoplastic LSZH (optional)

### Available in:

- Custom insulation/jacket colors
- Composite constructions

## Certification/Compliances

- UL 1277, Tray Cable (TC-ER)
- UL 44, Thermoset Insulated Wires and Cables
- UL 1685/FT4, Vertical Tray Flame Test rated (optional)
- IEEE 1202/383 (70,000 BTU/hr), Vertical Flame Test rated (optional)
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (XHHW-2 rated), 90°C wet/dry
- UV sunlight resistant "SUN RES" (all colors)
- Direct burial rated
- -40°C cold bend rated
- Rated for use in hazardous locations:
  - Class I Zone 2 (Div 2)
  - Class II Zone 22 (Div 2)



- 1 – Strand Bare (ASTM B8) Annealed Copper Conductors
- 2 – FR XLPE (XHHW-2 Rated) Insulated Conductors
- 3 – Polypropylene Fillers

- 4 – Polyester Separator Tape
- 5 – FR PVC Outer Protective Jacket

# 600/ 1000 V

Voltage  
(1000 V optional)

# UL Type TC-ER

Instrumentation

## Color Coding

- Method K1 & K2 (standard)
- Method 4 (optional)

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PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE	NOMINAL DIAMETER OVERALL CABLE	CABLE WEIGHT	AMPACITY	MAX PULLING TENSION (PULLING EYE)	MIN BEND RADIUS (PULL)
		(AWG/kcmil)	(in/mm)	(lbs/1000ft) (kg/km)	(30°C ambient)	(lb/kg)	(in/mm)
2C010U140200300	2	14	0.372 / 9.5	72 / 108	25	66 / 30	3.3 / 85
2C010U140300300	3	14	0.392 / 10.0	90 / 134	25	99 / 45	3.5 / 90
2C010U140400300	4	14	0.426 / 10.8	111 / 166	20	132 / 60	3.8 / 97
2C010U140500300	5	14	0.465 / 11.8	130 / 194	20	165 / 75	4.2 / 106
2C010U140600300	6	14	0.505 / 12.8	153 / 228	20	197 / 90	4.5 / 115
2C010U140700300	7	14	0.505 / 12.8	167 / 249	17.5	230 / 104	4.5 / 115
2C010U140800300	8	14	0.575 / 14.6	207 / 308	17.5	263 / 119	5.2 / 131
2C010U141000300	10	14	0.668 / 17.0	256 / 381	12.5	329 / 149	6 / 153
2C010U141200300	12	14	0.688 / 17.5	291 / 433	12.5	395 / 179	6.2 / 157
2C010U141400300	14	14	0.722 / 18.4	331 / 493	12.5	461 / 209	6.5 / 165
2C010U141500300	15	14	0.741 / 18.8	351 / 522	12.5	494 / 224	6.7 / 169
2C010U142000300	20	14	0.841 / 21.4	453 / 674	12.5	658 / 298	7.6 / 192
2C010U142500300	25	14	0.974 / 24.7	590 / 878	11.25	823 / 373	8.8 / 223
2C010U143000300	30	14	1.028 / 26.1	680 / 1012	11.25	987 / 448	9.3 / 235
2C010U144000300	40	14	1.147 / 29.1	871 / 1296	10	1316 / 597	10.3 / 262
2C010U145000300	50	14	1.272 / 32.3	1067 / 1588	8.75	1645 / 746	11.4 / 291
2C010U120200300	2	12	0.408 / 10.4	95 / 141	30	104 / 47	3.7 / 93
2C010U120300300	3	12	0.431 / 10.9	122 / 182	30	157 / 71	3.9 / 98
2C010U120400300	4	12	0.470 / 11.9	150 / 224	24	209 / 95	4.2 / 107
2C010U120500300	5	12	0.514 / 13.1	183 / 272	24	261 / 118	4.6 / 117
2C010U120600300	6	12	0.589 / 15.0	233 / 347	24	313 / 142	5.3 / 135
2C010U120700300	7	12	0.589 / 15.0	255 / 380	21	365 / 166	5.3 / 135
2C010U120800300	8	12	0.634 / 16.1	283 / 421	21	418 / 189	5.7 / 145
2C010U121000300	10	12	0.740 / 18.8	351 / 523	15	522 / 237	6.7 / 169
2C010U121200300	12	12	0.763 / 19.4	405 / 602	15	626 / 284	6.9 / 174
2C010U121400300	14	12	0.802 / 20.4	460 / 685	15	731 / 331	7.2 / 183
2C010U121500300	15	12	0.823 / 20.9	488 / 727	15	783 / 355	7.4 / 188
2C010U122000300	20	12	0.976 / 24.8	672 / 1000	15	1044 / 474	8.8 / 223
2C010U122500300	25	12	1.082 / 27.5	821 / 1221	13.5	1305 / 592	9.7 / 247
2C010U123000300	30	12	1.144 / 29.1	953 / 1418	13.5	1566 / 710	10.3 / 261
2C010U124000300	40	12	1.278 / 32.5	1230 / 1831	12	2088 / 947	11.5 / 292

\*Ampacity value based on National Electrical Code, Version 2020, Table 310.16. Values are corrected according to Table 310.15(C)(1) for number of Conductors.

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		(AWG/kcmil)	(in/mm)	(lbs/1000ft) (kg/km)	(30°C ambient)	(lb/kg)	(in/mm)
2C010U125000300	50	12	1.420 / 36.1	1515 / 2254	10.5	2610 / 1184	12.8 / 325
2C010U100200300	2	10	0.458 / 11.6	128 / 191	40	166 / 75	4.1 / 105
2C010U100300300	3	10	0.484 / 12.3	168 / 250	40	249 / 113	4.4 / 111
2C010U100400300	4	10	0.530 / 13.5	214 / 318	32	332 / 151	4.8 / 121
2C010U100500300	5	10	0.611 / 15.5	273 / 406	32	415 / 188	5.5 / 140
2C010U100600300	6	10	0.664 / 16.9	323 / 481	32	498 / 226	6 / 152
2C010U100700300	7	10	0.664 / 16.9	357 / 531	28	581 / 264	6 / 152
2C010U100800300	8	10	0.717 / 18.2	400 / 595	28	664 / 301	6.5 / 164
2C010U101000300	10	10	0.840 / 21.3	498 / 742	20	830 / 376	7.6 / 192
2C010U101200300	12	10	0.906 / 23.0	612 / 911	20	996 / 452	8.2 / 207
2C010U101400300	14	10	0.952 / 24.2	699 / 1040	20	1162 / 527	8.6 / 218
2C010U101500300	15	10	0.977 / 24.8	742 / 1104	20	1245 / 565	8.8 / 223
2C010U102000300	20	10	1.109 / 28.2	963 / 1434	20	1660 / 753	10 / 253
2C010U102500300	25	10	1.232 / 31.3	1179 / 1755	18	2075 / 941	11.1 / 282
2C010U103000300	30	10	1.304 / 33.1	1380 / 2053	18	2490 / 1129	11.7 / 298
2C010U104000300	40	10	1.461 / 37.1	1790 / 2664	16	3320 / 1506	13.1 / 334
2C010U105000300	50	10	1.626 / 41.3	2211 / 3291	14	4150 / 1882	14.6 / 372

\*Ampacity value based on National Electrical Code, Version 2020, Table 310.16. Values are corrected according to Table 310.15(C)(1) for number of Conductors.