

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

Tray Power 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:

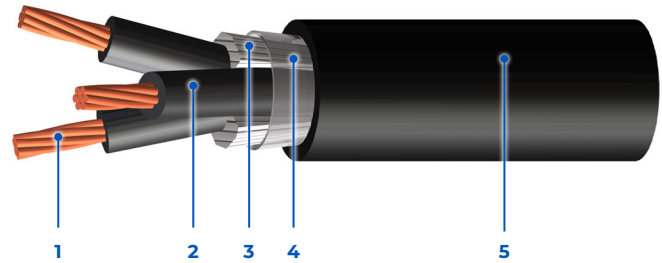
- FR PVC outer black jacket rated: 90°C to -40°C
- Thermoset CPE (optional)
- Thermoplastic CPE (optional)
- Thermoplastic LSZH (optional)

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)

Color Coding

- Black conductors (standard)
- Method K1 or K2 (optional)
- Method 4 (optional)

UL Type TC-ER

Instrumentation

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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
2C010U120200300	2	12	0.408 / 10.4	95 / 141	30	104 / 47	3.7 / 93
2C010U100200300	2	10	0.458 / 11.6	128 / 191	40	166 / 75	4.1 / 105
2C010U080200300	2	8	0.606 / 15.4	218 / 324	55	265 / 120	5.5 / 139
2C010U060200300	2	6	0.684 / 17.4	298 / 443	75	419 / 190	6.2 / 156
2C010U040200300	2	4	0.778 / 19.8	426 / 634	95	668 / 303	7 / 178
2C010U030200300	2	3	0.832 / 21.1	511 / 761	115	842 / 382	7.5 / 190
2C010U020200300	2	2	0.934 / 23.7	656 / 977	130	1062 / 482	8.4 / 214
2C010U010240300	2	1	1.052 / 26.7	816 / 1214	145	1339 / 607	9.5 / 240
2C010U1/0240300	2	1/0	1.132 / 28.8	991 / 1474	170	1690 / 766	10.2 / 259
2C010U2/0240300	2	2/0	1.218 / 30.9	1202 / 1789	195	2130 / 966	11 / 278
2C010U3/0240300	2	3/0	1.320 / 33.5	1468 / 2184	225	2671 / 1212	11.9 / 302
2C010U4/0240300	2	4/0	1.432 / 36.4	1799 / 2677	260	3386 / 1536	12.9 / 327
2C010U250260300	2	250	1.564 / 39.7	2099 / 3123	290	4000 / 1814	14.1 / 358
2C010U300260300	2	300	1.670 / 42.4	2465 / 3668	320	4800 / 2177	15 / 382
2C010U350260300	2	350	1.830 / 46.5	2939 / 4373	350	5600 / 2540	16.5 / 418
2C010U500260300	2	500	2.086 / 53.0	4036 / 6007	430	8000 / 3629	18.8 / 477
2C010U140300300	3	14	0.392 / 10.0	90 / 134	25	99 / 45	3.5 / 90
2C010U120300300	3	12	0.431 / 10.9	122 / 182	30	157 / 71	3.9 / 98
2C010U100300300	3	10	0.484 / 12.3	168 / 250	40	249 / 113	4.4 / 111
2C010U080300300	3	8	0.641 / 16.3	285 / 424	55	397 / 180	5.8 / 147
2C010U060300300	3	6	0.725 / 18.4	398 / 592	75	629 / 285	6.5 / 166
2C010U040300300	3	4	0.826 / 21.0	577 / 859	95	1002 / 454	7.4 / 189
2C010U030300300	3	3	0.924 / 23.5	736 / 1096	115	1263 / 573	8.3 / 211
2C010U020300300	3	2	0.991 / 25.2	886 / 1319	130	1593 / 723	8.9 / 226
2C010U010340300	3	10	1.117 / 28.4	1110 / 1652	145	2009 / 911	10.1 / 255
2C010U1/0340300	3	1/0	1.203 / 30.6	1359 / 2022	170	2534 / 1150	10.8 / 275
2C010U2/0340300	3	2/0	1.296 / 32.9	1657 / 2465	195	3194 / 1449	11.7 / 296
2C010U3/0340300	3	3/0	1.406 / 35.7	2034 / 3027	225	4007 / 1818	12.6 / 321
2C010U4/0340300	3	4/0	1.526 / 38.8	2501 / 3722	260	5078 / 2304	13.7 / 349
2C010U250360300	3	250	1.668 / 42.4	2927 / 4356	290	6000 / 2722	15 / 381

*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. Per Table 310.15(C)(1), the ampacity of 4/C cable shall be reduced by a factor of 0.8 when the neutral is considered a current-carrying conductor.

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PART NUMBER	NUMBER OF PAIRS	CONDUCTOR SIZE <i>(AWG/kcmil)</i>	NOMINAL DIAMETER OVERALL CABLE <i>(in/mm)</i>	CABLE WEIGHT <i>(lbs/1000ft) (kg/km)</i>	AMPACITY <i>(30°C ambient)</i>	MAX PULLING TENSION (PULLING EYE) <i>(lb/kg)</i>	MIN BEND RADIUS (PULL) <i>(in/mm)</i>
2C010U300360300	3	300	1.842 / 46.8	3556 / 5292	320	7200 / 3266	16.6 / 421
2C010U350360300	3	350	1.949 / 49.5	4089 / 6086	350	8400 / 3810	17.5 / 446
2C010U500360300	3	500	2.224 / 56.5	5662 / 8426	430	12000 / 5443	20 / 509
2C010U750360300	3	750	2.674 / 67.9	8362 / 12444	535	18000 / 8165	24.1 / 611
2C010U140400300	4	14	0.426 / 10.8	111 / 166	20	132 / 60	3.8 / 97
2C010U120400300	4	12	0.470 / 11.9	150 / 224	24	209 / 95	4.2 / 107
2C010U100400300	4	10	0.530 / 13.5	214 / 318	32	332 / 151	4.8 / 121
2C010U080400300	4	8	0.702 / 17.8	357 / 531	44	529 / 240	6.3 / 161
2C010U060400300	4	6	0.796 / 20.2	504 / 750	60	839 / 380	7.2 / 182
2C010U040400300	4	4	0.949 / 24.1	776 / 1154	76	1336 / 606	8.5 / 217
2C010U030400300	4	3	1.014 / 25.8	935 / 1392	92	1684 / 764	9.1 / 232
2C010U020400300	4	2	1.088 / 27.7	1143 / 1701	104	2124 / 964	9.8 / 249
2C010U010440300	4	1	1.231 / 31.3	1429 / 2127	116	2678 / 1215	11.1 / 281
2C010U1/0440300	4	1/0	1.327 / 33.7	1751 / 2605	136	3379 / 1533	11.9 / 303
2C010U2/0440300	4	2/0	1.431 / 36.3	2143 / 3189	156	4259 / 1932	12.9 / 327
2C010U4/0440300	4	4/0	1.749 / 44.4	3368 / 5012	208	6771 / 3071	15.7 / 400
2C010U250460300	4	250	1.908 / 48.5	3927 / 5844	232	8000 / 3629	17.2 / 436
2C010U300460300	4	300	2.035 / 51.7	4630 / 6890	256	9600 / 4355	18.3 / 465
2C010U350460300	4	350	2.156 / 54.8	5329 / 7931	280	11200 / 5080	19.4 / 493
2C010U500460300	4	500	2.464 / 62.6	7406 / 11021	344	16000 / 7258	22.2 / 563
2C010U750460300	4	750	3.028 / 76.9	11138 / 16575	428	24000 / 10886	27.3 / 692

*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. Per Table 310.15(C)(1), the ampacity of 4/C cable shall be reduced by a factor of 0.8 when the neutral is considered a current-carrying conductor.