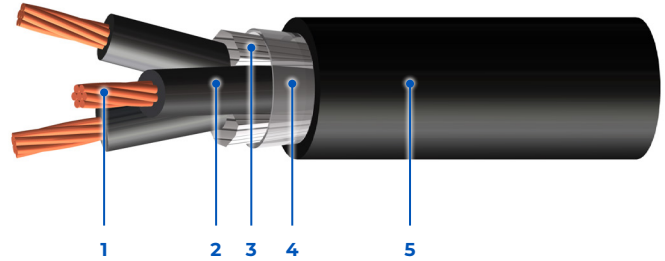


UL Type TC Tray Control FR-EPR/CPE, Multi-Conductor, 600 V

For use where flame retardance, oil and moisture/chemical resistance are critical. FR EPR cables can be installed in cable tray, free air, in raceways or in direct burial applications



Standards:



TC-ER

1 – Bare Copper Conductors
(Tin-coated Available)

2 – FR Ethylene
Propylene Rubber (EPR)
Insulated Conductors

3 – Polypropylene Fillers

4 – Polyester Separator Tape

5 – Thermoplastic CPE
Protective Jacket

Product Construction

Insulation:

- FR EPR (XHHW-2 rated)
rated: 90°C wet/dry

Jacket:

- Thermoplastic CPE black
outer jacket (standard)
rated: 90°C
- Thermoset CPE (optional)

Available in:

- Custom insulation/
jacket colors
- Composite constructions
- TC-ER (optional)

Certification/Compliances

- UL 1277, Tray Cable (TC-ER)
- UL 44, Thermoset
Insulated Wires
and Cables
- UL 1685/FT4, Vertical
Tray Flame Test rated
- IEEE 1202/383 (70,000
BTU/hr), Vertical Flame
Test rated
- ICEA T-30-520 (70,000
BTU/hr), Vertical Flame
Test rated
- EPR (XHHW-2 rated),
90°C wet/dry
- UV sunlight resistant
“SUN RES” (all colors)
- Oil Res I & II rated
- Direct burial rated
- -40°C cold bend rated
- Rated for use in
hazardous locations:
 - Class I Zone 2 (Div 2)
 - Class II Zone 20, 21 (Div 1)
 - Class II Zone 22 (Div 2)

600 V

Voltage
(Optional: 2000 V)

Color Coding

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

UL Type TC-ER

Control

UL Type TC Tray Control FR-EPR/CPE, Multi-Conductor, 600 V

| PART NUMBER | NUMBER OF CONDUCTORS | 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) |
| 2M010U140200400 | 2 | 14 | 0.372 / 9.5 | 75 / 111 | 25 | 66 / 30 | 3.3 / 85 |
| 2M010U140300400 | 3 | 14 | 0.392 / 10.0 | 94 / 140 | 25 | 99 / 45 | 3.5 / 90 |
| 2M010U140400400 | 4 | 14 | 0.426 / 10.8 | 117 / 174 | 20 | 132 / 60 | 3.8 / 97 |
| 2M010U140500400 | 5 | 14 | 0.465 / 11.8 | 138 / 205 | 20 | 165 / 75 | 4.2 / 106 |
| 2M010U140600400 | 6 | 14 | 0.505 / 12.8 | 162 / 241 | 20 | 197 / 90 | 4.5 / 115 |
| 2M010U140700400 | 7 | 14 | 0.505 / 12.8 | 177 / 264 | 17.5 | 230 / 104 | 4.5 / 115 |
| 2M010U140800400 | 8 | 14 | 0.575 / 14.6 | 218 / 325 | 17.5 | 263 / 119 | 5.2 / 131 |
| 2M010U141000400 | 10 | 14 | 0.668 / 17.0 | 270 / 402 | 12.5 | 329 / 149 | 6 / 153 |
| 2M010U141200400 | 12 | 14 | 0.688 / 17.5 | 309 / 460 | 12.5 | 395 / 179 | 6.2 / 157 |
| 2M010U141400400 | 14 | 14 | 0.722 / 18.4 | 352 / 524 | 12.5 | 461 / 209 | 6.5 / 165 |
| 2M010U141500400 | 15 | 14 | 0.741 / 18.8 | 373 / 556 | 12.5 | 494 / 224 | 6.7 / 169 |
| 2M010U142000400 | 20 | 14 | 0.841 / 21.4 | 483 / 719 | 12.5 | 658 / 298 | 7.6 / 192 |
| 2M010U142500400 | 25 | 14 | 0.974 / 24.7 | 628 / 935 | 11.25 | 823 / 373 | 8.8 / 223 |
| 2M010U143000400 | 30 | 14 | 1.028 / 26.1 | 726 / 1081 | 11.25 | 987 / 448 | 9.3 / 235 |
| 2M010U144000400 | 40 | 14 | 1.147 / 29.1 | 933 / 1389 | 10 | 1316 / 597 | 10.3 / 262 |
| 2M010U145000400 | 50 | 14 | 1.272 / 32.3 | 1145 / 1704 | 8.75 | 1645 / 746 | 11.4 / 291 |
| 2M010U120200400 | 2 | 12 | 0.408 / 10.4 | 98 / 146 | 30 | 104 / 47 | 3.7 / 93 |
| 2M010U120300400 | 3 | 12 | 0.431 / 10.9 | 127 / 189 | 30 | 157 / 71 | 3.9 / 98 |
| 2M010U120400400 | 4 | 12 | 0.470 / 11.9 | 157 / 234 | 24 | 209 / 95 | 4.2 / 107 |
| 2M010U120500400 | 5 | 12 | 0.514 / 13.1 | 192 / 285 | 24 | 261 / 118 | 4.6 / 117 |
| 2M010U120600400 | 6 | 12 | 0.589 / 15.0 | 243 / 362 | 24 | 313 / 142 | 5.3 / 135 |
| 2M010U120700400 | 7 | 12 | 0.589 / 15.0 | 267 / 398 | 21 | 365 / 166 | 5.3 / 135 |
| 2M010U120800400 | 8 | 12 | 0.634 / 16.1 | 297 / 442 | 21 | 418 / 189 | 5.7 / 145 |
| 2M010U121000400 | 10 | 12 | 0.740 / 18.8 | 369 / 549 | 15 | 522 / 237 | 6.7 / 169 |
| 2M010U121200400 | 12 | 12 | 0.763 / 19.4 | 426 / 634 | 15 | 626 / 284 | 6.9 / 174 |
| 2M010U121400400 | 14 | 12 | 0.802 / 20.4 | 485 / 722 | 15 | 731 / 331 | 7.2 / 183 |
| 2M010U121500400 | 15 | 12 | 0.823 / 20.9 | 516 / 767 | 15 | 783 / 355 | 7.4 / 188 |
| 2M010U122000400 | 20 | 12 | 0.976 / 24.8 | 709 / 1054 | 15 | 1044 / 474 | 8.8 / 223 |
| 2M010U122500400 | 25 | 12 | 1.082 / 27.5 | 867 / 1290 | 13.5 | 1305 / 592 | 9.7 / 247 |
| 2M010U123000400 | 30 | 12 | 1.144 / 29.1 | 1008 / 1501 | 13.5 | 1566 / 710 | 10.3 / 261 |
| 2M010U124000400 | 40 | 12 | 1.278 / 32.5 | 1305 / 1942 | 12 | 2088 / 947 | 11.5 / 292 |
| 2M010U125000400 | 50 | 12 | 1.420 / 36.1 | 1608 / 2394 | 10.5 | 2610 / 1184 | 12.8 / 325 |
| 2M010U100200400 | 2 | 10 | 0.458 / 11.6 | 132 / 197 | 40 | 166 / 75 | 4.1 / 105 |

*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.

UL Type TC Tray Control FR-EPR/CPE, Multi-Conductor, 600 V

| PART NUMBER | NUMBER OF CONDUCTORS | 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) |
| 2M010U100300400 | 3 | 10 | 0.484 / 12.3 | 175 / 260 | 40 | 249 / 113 | 4.4 / 111 |
| 2M010U100400400 | 4 | 10 | 0.530 / 13.5 | 222 / 331 | 32 | 332 / 151 | 4.8 / 121 |
| 2M010U100500400 | 5 | 10 | 0.611 / 15.5 | 284 / 422 | 32 | 415 / 188 | 5.5 / 140 |
| 2M010U100600400 | 6 | 10 | 0.664 / 16.9 | 336 / 500 | 32 | 498 / 226 | 6 / 152 |
| 2M010U100700400 | 7 | 10 | 0.664 / 16.9 | 373 / 555 | 28 | 581 / 264 | 6 / 152 |
| 2M010U100800400 | 8 | 10 | 0.717 / 18.2 | 418 / 622 | 28 | 664 / 301 | 6.5 / 164 |
| 2M010U101000400 | 10 | 10 | 0.840 / 21.3 | 521 / 775 | 20 | 830 / 376 | 7.6 / 192 |
| 2M010U101200400 | 12 | 10 | 0.906 / 23.0 | 639 / 951 | 20 | 996 / 452 | 8.2 / 207 |
| 2M010U101400400 | 14 | 10 | 0.952 / 24.2 | 731 / 1088 | 20 | 1162 / 527 | 8.6 / 218 |
| 2M010U101500400 | 15 | 10 | 0.977 / 24.8 | 776 / 1155 | 20 | 1245 / 565 | 8.8 / 223 |
| 2M010U102000400 | 20 | 10 | 1.109 / 28.2 | 1009 / 1502 | 20 | 1660 / 753 | 10 / 253 |
| 2M010U102500400 | 25 | 10 | 1.232 / 31.3 | 1237 / 1841 | 18 | 2075 / 941 | 11.1 / 282 |
| 2M010U103000400 | 30 | 10 | 1.304 / 33.1 | 1450 / 2158 | 18 | 2490 / 1129 | 11.7 / 298 |
| 2M010U104000400 | 40 | 10 | 1.461 / 37.1 | 1885 / 2805 | 16 | 3320 / 1506 | 13.1 / 334 |
| 2M010U105000400 | 50 | 10 | 1.626 / 41.3 | 2330 / 3468 | 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.