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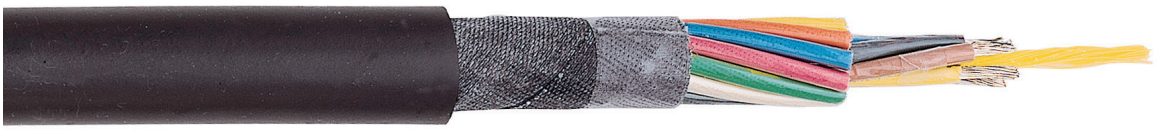
# AUTO-FLEX® CF Control

Type TC continuous flex cable / multiconductor / thermoset jacket / 600V



## *Applications*

AUTO-FLEX® TC continuous flexing control cable is designed and manufactured with reduced diameters for use in continuous flexing and high speed automated applications where smaller bend radius, long flex life, resistance to tension, flame, abrasion, and temperature are considerations. Applications include cable carriers (C-Track), festoon systems, and cable trays for automated robotic feeds.

## *Specifications and Ratings*

- UL listed Type TC (Tray Cable)
- CSA certified (File No. LL36970)
- AWM certified
- Meets IEEE 383-1974 vertical flame test, CSA FT4, 600 Volt, 90°C Dry, 75°C Wet.

## *Construction Options*

Consult the factory for AUTO-FLEX® CF cable designed and manufactured in a variety of alternative constructions for specific application.

Options include:

- Shielded pairs
- Overall shields
- Composite conductors
- Fiber optics

## *Design Parameters*

**CONDUCTORS:** Soft drawn tinned copper, per ASTM B -174, and UL-62 for very high flexibility and increased flex life, reduced copper fatigue/ conductor breakage, easy soldering and corrosion resistance.

**INSULATION:** Color-coded flexible and flame-retardant insulation with a nylon sheath rated for 90°C dry and 75°C wet applications.

**CABLING:** Conductors are planetary cabled in a contra-helical lay with non-wicking, non-hygroscopic fillers with an overall binder of rubberized fabric tape for exceptional performance in severe flexing applications.

**JACKET:** Black, flame and oil resistant thermoset jacket per UL-62 and ICEA S-68-516 suitable for use indoors and outdoors in severe flexing applications where oil, chemicals and extreme temperatures are considerations.



**Prysmian Group**

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| Number of Conductors | Conductor Size | Stranding | Nominal Insulation Thickness in (mm) | Nominal Nylon Sheath Thickness in (mm) | Nominal Jacket Thickness in (mm) | Nominal Cable O.D. in (mm) | Approximate Cable Weight Lbs/Mft (Kg/Km) |
|---|---|---|---|---|---|---|---|
| 18 AWG | | | | | | | |
| 4 | 18 | 19 | 15 | 4 | 45 | 0.335 | 75 |
| 8 | 18 | 19 | 15 | 4 | 45 | 0.420 | 121 |
| 10 | 18 | 19 | 15 | 4 | 45 | 0.480 | 147 |
| 12 | 18 | 19 | 15 | 4 | 45 | 0.500 | 167 |
| 16 | 18 | 19 | 15 | 4 | 60 | 0.580 | 232 |
| 19 | 18 | 19 | 15 | 4 | 60 | 0.605 | 265 |
| 24 | 18 | 19 | 15 | 4 | 60 | 0.700 | 321 |
| 30 | 18 | 19 | 15 | 4 | 60 | 0.740 | 384 |
| 16 AWG | | | | | | | |
| 4 | 16 | 19 | 15 | 4 | 45 | 0.365 | 82 |
| 8 | 16 | 19 | 15 | 4 | 45 | 0.455 | 140 |
| 10 | 16 | 19 | 15 | 4 | 45 | 0.530 | 172 |
| 12 | 16 | 19 | 15 | 4 | 60 | 0.580 | 217 |
| 16 | 16 | 19 | 15 | 4 | 60 | 0.635 | 270 |
| 19 | 16 | 19 | 15 | 4 | 60 | 0.665 | 308 |
| 24 | 16 | 19 | 15 | 4 | 60 | 0.770 | 381 |
| 30 | 16 | 19 | 15 | 4 | 60 | 0.815 | 450 |
| 14 AWG | | | | | | | |
| 4 | 14 | 19 | 15 | 4 | 45 | 0.390 | 111 |
| 8 | 14 | 19 | 15 | 4 | 45 | 0.495 | 193 |
| 10 | 14 | 19 | 15 | 4 | 60 | 0.610 | 261 |
| 12 | 14 | 19 | 15 | 4 | 60 | 0.630 | 300 |
| 16 | 14 | 19 | 15 | 4 | 60 | 0.695 | 376 |
| 19 | 14 | 19 | 15 | 4 | 60 | 0.730 | 432 |
| 24 | 14 | 19 | 15 | 4 | 60 | 0.845 | 532 |
| 30 | 14 | 19 | 15 | 4 | 60 | 0.940 | 686 |
| 12 AWG | | | | | | | |
| 4 | 12 | 19 | 15 | 4 | 45 | 0.440 | 197 |
| 8 | 12 | 19 | 15 | 4 | 60 | 0.590 | 287 |
| 10 | 12 | 19 | 15 | 4 | 60 | 0.685 | 353 |
| 12 | 12 | 19 | 15 | 4 | 60 | 0.705 | 406 |
| 16 | 12 | 19 | 15 | 4 | 60 | 0.780 | 518 |
| 19 | 12 | 19 | 15 | 4 | 60 | 0.825 | 601 |
| 24 | 12 | 19 | 15 | 4 | 60 | 1.000 | 790 |
| 30 | 12 | 19 | 15 | 4 | 60 | 1.060 | 951 |

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.



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