



# Control Cable

## Chainflex® CF130US

PVC Standard Energy Chain® cable, oil-resistant, flame-retardant



### Description

In general these cables will offer continuous-flex performance in specific "Tray Cable" and "Machine Tool Wire" NEC compliant installations. The CF130US line is designed for use in 600V control and power applications. The oil-resistant jacket also passes the stringent 70,000 BTU UL and CSA Vertical Flame Tests. Not recommended for long travel / gliding applications.

### Construction

**Conductors:** Finely stranded bundled bare copper wires. Designed in accordance with ASTM B174-95

**Conductor insulation:** Mechanically high-quality, PVC/Nylon

**Conductor twisting:** Conductors concentrically layered with short pitch.

**Conductor colors:** \*\*Black with white numbers, one green-yellow.

**Outer jacket:** Oil-resistant UV-resistant PVC, low-adhesion blend, adapted to the requirements of the Energy Chain®

**Color:** Grey (RAL 7001)

### Technical Data

**Minimum bending radius for flexible use:** 8 x outer cable diameter

**Permissible temperature range for continuous flexing:** +23°F to +176°F (-5°C to +80°C)

**Voltage:** 600 V

**UL Listings:** For installation in accordance with all applicable sections of the National Electric Code.

22 AWG - 10 AWG UL Type MTW (Machine Tool Wire), 18 AWG - 10 AWG UL Type TC (Tray Cable)

**UL AWM:** 2587 90°C 600V; **CSA AWM:** I/II A/B 90°C 600V FT4; **CE:** In accordance with European Council Directive 73/23/EEC, **RoHS:** 2002/95/EC; See page 10.23 of the Design section for more information.

#### Conductor

Fine wire stranded conductor

#### Core

Cabled in layers around strength core

#### Outer jacket

Gusset-filling pressure extruded

| Part No.      | Number of Conductors | AWG | Strand/<br>AWG | Outer Diameter (approx) |        | Copper Index |         | Weight  |         |
|---------------|----------------------|-----|----------------|-------------------------|--------|--------------|---------|---------|---------|
|               |                      |     |                | in.                     | (mm)   | lbs/mft      | (kg/km) | lbs/mft | (kg/km) |
| CF130US-05-02 | 2                    | 20  | 26/34          | .27                     | (6.7)  | 6.4          | (10)    | 22      | (33)    |
| CF130US-05-03 | 3                    | 20  | 26/34          | .28                     | (7.1)  | 10           | (15)    | 35      | (52)    |
| CF130US-05-04 | 4                    | 20  | 26/34          | .31                     | (7.9)  | 13           | (19)    | 49.3    | (73)    |
| CF130US-05-05 | 5                    | 20  | 26/34          | .33                     | (8.4)  | 16           | (24)    | 56.7    | (84)    |
| CF130US-05-07 | 7                    | 20  | 26/34          | .38                     | (9.7)  | 22.5         | (33)    | 72.9    | (108)   |
| CF130US-05-12 | 12                   | 20  | 26/34          | .47                     | (11.9) | 38.5         | (57)    | 115.8   | (172)   |
| CF130US-05-18 | 18                   | 20  | 26/34          | .55                     | (14.0) | 57.8         | (86)    | 161.9   | (241)   |
| CF130US-05-25 | 25                   | 20  | 26/34          | .66                     | (16.6) | 80.3         | (119)   | 215.7   | (321)   |
| CF130US-07-04 | 4                    | 18  | 41/34          | .33                     | (8.3)  | 20.2         | (30)    | 59      | (88)    |
| CF130US-07-05 | 5                    | 18  | 41/34          | .35                     | (8.9)  | 25.3         | (38)    | 68.7    | (102)   |
| CF130US-07-07 | 7                    | 18  | 41/34          | .40                     | (10.2) | 35.4         | (53)    | 88.5    | (132)   |
| CF130US-07-12 | 12                   | 18  | 41/34          | .50                     | (12.7) | 60.7         | (90)    | 143.2   | (213)   |
| CF130US-07-18 | 18                   | 18  | 41/34          | .58                     | (14.7) | 91.1         | (136)   | 203.2   | (302)   |
| CF130US-07-25 | 25                   | 18  | 41/34          | .69                     | (17.5) | 126.5        | (188)   | 270.7   | (403)   |
| CF130US-15-03 | 3                    | 16  | 65/34          | .33                     | (8.4)  | 24.1         | (36)    | 59.5    | (89)    |
| CF130US-15-04 | 4                    | 16  | 65/34          | .36                     | (9.0)  | 32.1         | (48)    | 76.3    | (114)   |
| CF130US-15-05 | 5                    | 16  | 65/34          | .39                     | (9.8)  | 40.2         | (60)    | 88.9    | (132)   |
| CF130US-15-07 | 7                    | 16  | 65/34          | .45                     | (11.3) | 56.2         | (84)    | 129.3   | (192)   |
| CF130US-15-10 | 10                   | 16  | 65/34          | .56                     | (14.2) | 80.3         | (120)   | 184.7   | (274)   |
| CF130US-15-12 | 12                   | 16  | 65/34          | .56                     | (14.2) | 96.4         | (143)   | 196.5   | (292)   |
| CF130US-15-18 | 18                   | 16  | 65/34          | .65                     | (16.4) | 144.5        | (215)   | 283.1   | (421)   |
| CF130US-15-22 | 22                   | 16  | 65/34          | .71                     | (18.0) | 176.7        | (263)   | 339.3   | (505)   |
| CF130US-15-25 | 25                   | 16  | 65/34          | .77                     | (19.4) | 200          | (298)   | 389.5   | (580)   |
| CF130US-15-33 | 33                   | 16  | 65/34          | .85                     | (21.6) | 265          | (394)   | 556.5   | (828)   |
| CF130US-25-04 | 4                    | 14  | 105/34         | .39                     | (9.8)  | 52           | (77)    | 101.6   | (151)   |
| CF130US-25-07 | 7                    | 14  | 105/34         | .51                     | (13.0) | 91           | (135)   | 170.9   | (254)   |
| CF130US-25-20 | 10                   | 14  | 105/34         | .63                     | (16.0) | 130          | (190)   | 225     | (333)   |
| CF130US-25-12 | 12                   | 14  | 105/34         | .62                     | (15.6) | 156          | (232)   | 269.7   | (401)   |
| CF130US-40-04 | 4                    | 12  | 165/34         | .49                     | (12.4) | 79.3         | (118)   | 149.3   | (222)   |
| CF130US-60-04 | 4                    | 10  | 259/34         | .56                     | (14.2) | 130          | (193)   | 220     | (327)   |
| CF130US-60-05 | 5                    | 10  | 259/34         | .61                     | (15.5) | 162.5        | (242)   | 261.5   | (389)   |