CF2

CLASS 6.3.3

Price Index

# PUR Control Cables

## Chainflex® CF2

**PUR Energy Chain® cable, shielded, notch-proof, oil/coolant-resistant, hydrolysis/microbe-resistant, flame-retardant**


**Conductor**
Highly flexible special conductor

**Strain relief**
Center element for high tensile stresses

**Core**
Braiding in bundles around high-tensile center cord

**Inner jacket**
Gusset-filling, pressure extruded

**Overall shield**
Highly flexible braided copper shield

**Outer jacket**
Pressure extruded PUR blend

5x

Oil

## Construction

**Conductors:** Bare copper conductors with very fine stranding. According to EN 60228
**Conductor insulation:** Mechanically high-quality, PVC-insulating compound.
**Conductor twisting:** Number of conductors < 12 Conductors concentrically layered with short pitch. Number of conductors ≥ 12 Conductors layered in braids around a, high-tensile-strength core; short pitches matched in the direction of the pitch for extremely low torsion.
**Conductor colors:** Black with white numbers, one conductor green-yellow on all cross-sections. Color code in accordance with DIN 47100 in the case of 26 and 24 AWG.
**Intermediate jacket:** PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®.
**Shield:** Tinned copper braid, coverage approx. 90% optical.
**Outer jacket:** PUR-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** gray (RAL 7016).

## Technical Data

**Minimum bending radius, moving:** 5 x outer cable diameter
**Minimum bending radius, fixed:** 4 x outer cable diameter
**Permissible temperature, moving:** -4°F to +176°F (-20°C to +80°C)
**Permissible temperature, fixed:** -40°F to +176°F (-40°C to +80°C)
**UV-resistance:** High
**Oil-resistance:** High
**Voltage:** 300V
**Testing voltage:** 2000 V (according to DIN VDE 0281-2)
**Regulations:** **UL AWM** 20317 80°C 300V, **CSA AWM** I/II A/B 80°C 300V FT1, **CE**, **RoHS: 2002/95/EC;** Please reference the Design Section (Chapter 1) for more information.

## Typical Applications

- for maximum mechanical load requirements
- indoor and outdoor applications
- especially for unsupported and gliding travel distances up to 328 ft (100m)
- storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes, refrigerating sector

**No Minimum Order • No Cut Charges on up to 10 cuts of the same part number**

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| Part No. | AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx) | | Copper Index | | Weight | |
|---|---|---|---|---|---|---|---|---|
| | | | in. | (mm) | lbs/mft | (kg/km) | lbs/mft | (kg/km) |
| CF2-01-04 | 26 | 4 x 0.14 | .24 | (6) | 11.6 | (17) | 27.2 | (40) |
| CF2-01-08 | 26 | 8 x 0.14 | .31 | (8) | 19.7 | (29) | 44.2 | (65) |
| CF2-01-12 | 26 | 12 x 0.14 | .35 | (9) | 33.3 | (49) | 68.7 | (101) |
| CF2-01-18 | 26 | 18 x 0.14 | .40 | (10) | 45.6 | (67) | 85.0 | (125) |
| CF2-01-24** | 26 | 24 x 0.14 | .47 | (12) | 56.4 | (83) | 91.8 | (135) |
| CF2-01-36 | 26 | 36 x 0.14 | .51 | (13) | 52.8 | (88) | 136.0 | (200) |
| CF2-01-48 | 26 | 48 x 0.14 | .67 | (17) | 91.8 | (135) | 210.8 | (310) |
| CF2-02-04 | 24 | 4 x 0.25 | .28 | (7) | 16.3 | (24) | 36.0 | (53) |
| CF2-02-08 | 24 | 8 x 0.25 | .31 | (8) | 28.9 | (41) | 56.4 | (83) |
| CF2-02-18 | 24 | 18 x 0.25 | .51 | (13) | 65.3 | (96) | 129.2 | (190) |
| CF2-02-24** | 24 | 24 x 0.25 | .55 | (14) | 81.6 | (120) | 149.6 | (220) |
| CF2-02-48 | 24 | 48 x 0.25 | .79 | (20) | 156.4 | (230) | 306.0 | (450) |
| CF2-05-07 | 20 | 7 x 0.5 | .51 | (13) | 55.8 | (82) | 142.8 | (210) |
| CF2-05-12 | 20 | 12 x 0.5 | .71 | (18) | 98.6 | (145) | 265.2 | (390) |
| CF2-05-18 | 20 | 18 x 0.5 | .87 | (22) | 130.6 | (192) | 353.6 | (520) |
| CF2-07-04 | 18 | 4 x 0.75 | .39 | (10) | 38.8 | (57) | 108.8 | (160) |
| CF2-07-12 | 18 | 12 x 0.75 | .75 | (19) | 124.4 | (183) | 299.2 | (440) |
| CF2-07-24** | 18 | 24 x 0.75 | .98 | (25) | 205.4 | (302) | 489.6 | (720) |
| CF2-10-12 | 17 | 12 x 1 | .79 | (20) | 144.8 | (213) | 326.4 | (480) |
| CF2-15-03 | 16 | 3 x 1.5 | .44 | (11) | 57.8 | (85) | 129.2 | (190) |
| CF2-15-07 | 16 | 7 x 1.5 | .63 | (16) | 110.8 | (163) | 231.2 | (340) |
| CF2-15-12 | 16 | 12 x 1.5 | .91 | (23) | 196.5 | (289) | 442.0 | (650) |

** Cables based on 4-conductor bundles. Due to their excellent electrical properties (star-quad with particularly low crosstalk), these cables can be used in virtually all applications normally requiring twisted-pair cables.

**NOTE:** The mentioned external diameters are maximum values.

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number