


















PUR Control cable | CF2












- for maximum load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- flame-retardant
- notch-resistant
- hydrolysis-resistant and microbe-resistant

| | | |
|---|----------------------------|---|
|  | Conductor | Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228). |
|  | Core insulation | Cores < 0,5 mm²: Mechanically high-quality PP mixture. Cores ≥ 0,5 mm²: Mechanically high-quality PVC mixture (following DIN VDE 0207 Part 4). |
|  | Core stranding | Number of cores < 12: cores stranded in a layer with short pitch length. Number of cores ≥ 12: cores combined in bundles and stranded together around a centre for high tensile stresses with adapted, short pitch lengths and pitch directions, especially low-torsion structure. |
|  | Core identification | Cores < 0,5 mm²: Colour code in accordance with DIN 47100 Cores ≥ 0,5 mm²: cores black with white numerals, one core green-yellow |
|  | Inner jacket | PVC mixture adapted to suit the requirements in energy chains®. |
|  | Overall shield | Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical. |
|  | Outer jacket | Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Anthracite grey (similar to RAL 7016) |
|  | Bending radius | moved minimum 5 x d fixed minimum 4 x d |
|  | Temperature | moved -20 °C to +80 °C fixed -40 °C to +80 °C |
|  | v max. | 10 m/s, 5 m/s |
|  | unsupported/gliding | |
|  | a max. | 80 m/s² |
|  | Travel distance | Freely suspended travel distances and up to 100 m for gliding applications, Class 4 |
|  | UV-resistant | High |
|  | Nominal voltage | 300/500 V (following DIN VDE 0245). |
|  | Testing voltage | 2000 V (following DIN VDE 0281-2). |
|  | Oil | Oil-resistant (following DIN EN 50363-10-2), Class 3. |

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(for up to 10 cuts of the same type)

Class 6.4.3 (6 maximum load requirements 4 travel distance up to 100 m 3 oil-resistant)

| | | |
|---|------------------------|---|
|  | Offshore | MUD-resistant following NEK 606 – status 2009. |
|  | Flame-retardant | According to IEC 60332-1-2, CEI 20-35, FT1, VW-1 |
|  | Silicon-free | Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992). |
|  | UL/CSA | < 0,5 mm²: Style 10493 and 20317, 300 V, 80 °C ≥ 0,5 mm²: Style 1007 and 20317, 300 V, 80 °C |
|  | NFPA | Following NFPA 79-2012 chapter 12.9 |
|  | CEI | Following CEI 20-35 |
|  | CE | Following 2006/95/EG |
|  | Lead free | Following 2011/65/EC (RoHS-II) |
|  | Clean room | According to ISO Class 1. Outer jacket material complies with CF27.07.05.02.01.D, tested by IPA according to standard 14644-1 |
|  | CTP | Certified according to N° C-DE.PB49.V.00396 |
|  | EAC | Certified according to N° TC RU C-DE.ME77.B.00960 |

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ► Page 22-25

| Temperature, from/to [°C] | Double strokes* | | Travel distance [m] | 5 million | 7,5 million | 10 million |
|---------------------------|--------------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| | v max. unsupported [m/s] | a max. gliding [m/s²] | | R min. [factor x d] | R min. [factor x d] | R min. [factor x d] |
| -20 / -10 | | | ≤ 100 | 6,8 | 7,5 | 8,5 |
| -10 / +70 | 10 | 5 | | 5 | 6,8 | 7,5 |
| +70 / +80 | | | | 6,8 | 7,5 | 8,5 |

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil
- Indoor and outdoor applications
- freely suspended travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes, refrigerating sector

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu






Image exemplary.

| Delivery program Part No. | Number of cores and conductor nominal cross section [mm²] | External diameter max. [mm] | Copper index [kg/km] | Weight [kg/km] |
|---------------------------|---|-----------------------------|----------------------|----------------|
| CF2.01.04 | (4 x 0,14)C | 6,0 | 17 | 40 |
| CF2.01.08 | (8 x 0,14)C | 8,0 | 29 | 65 |
| CF2.01.12 | (12 x 0,14)C | 9,0 | 49 | 101 |
| CF2.01.18 | (18 x 0,14)C | 10,0 | 53 | 125 |
| CF2.01.24 ⁽³⁾ | (24 x 0,14)C | 11,5 | 65 | 135 |
| CF2.01.36 | (36 x 0,14)C | 14,0 | 88 | 200 |
| CF2.01.48 | (48 x 0,14)C | 16,0 | 135 | 310 |
| CF2.02.04 | (4 x 0,25)C | 7,0 | 24 | 53 |
| CF2.02.08 | (8 x 0,25)C | 8,0 | 41 | 83 |
| CF2.02.18 | (18 x 0,25)C | 13,0 | 96 | 190 |
| CF2.02.24 ⁽³⁾ | (24 x 0,25)C | 14,0 | 120 | 220 |
| CF2.02.48 | (48 x 0,25)C | 18,0 | 230 | 450 |

The chainflex® types marked with a (3) refer to cables that are based on a bundling of 4 cores each. Due to their excellent electrical properties (star-quad with especially minimum crosstalk), these cables can virtually be used in all cases in which otherwise twisted-pair cables are required.
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core **x** = without earth core

 **Order example: CF2.02.18 – in your desired length (0,5 m steps)**
CF2 chainflex® series .02 Code nominal cross section .18 Number of cores

 **prices** **price list online**
www.chainflex.eu/CF2

 **delivery time** **despatched in 24 hours or today**



chainflex® cables are resistant to oil and coolants. e-chain®: System E4/00

... no minimum order quantity ...

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