


CF5  
PVC  
6.8-7.5xd

# PVC Control cable Chainflex® CF5


- for high load requirements
- PVC outer jacket
- oil-resistant
- flame-retardant



Especially bending-resistant fine-wire stranded conductor



















Center element for high tensile stresses



Braiding in bundles around high-tensile center cord



Gusset-filled extruded, oil-proof PVC mixture

|   |                            |  |
|---|----------------------------|--|
|    | Temperature range moved    | -5 °C to +70 °C, minimum bending radius 6.8 x d with < 10 m travel; minimum bending radius 7.5 x d with ≥ 10 m travel  |
|    | Temperature range fixed    | -20 °C to +70 °C, minimum bending radius 4 x d   |
|    | v max. unsupported/gliding | 10 m/s, 5 m/s  |
|    | a max.                     | 80 m/s <sup>2</sup>  |
|    | Travel distance            | Freely suspended and gliding travel distances up to 100 m, Class 3   |
|   | UV-resistant               | Medium   |
|  | Nominal voltage            | 300/500 V (following DIN VDE 0245).  |
|  | Testing voltage            | 2000 V (following DIN VDE 0281-2).   |
|  | Oil                        | Oil-resistant (following DIN EN 60811-2-1, DIN EN 50363-4-1), Class 2  |
|  | Flame-retardant            | According to IEC 332-1, CEI 20-35, FT1.  |
|  | Silicon-free               | Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).   |
|  | Conductor                  | Fine-wire stranded conductor consisting of bare copper wires (following EN 60228).   |
|  | Core insulation            | Mechanically high-quality PVC mixture (following DIN VDE 0207 Part 4).   |
|  | Core stranding             | <b>Number of cores &lt; 12:</b> cores stranded in a layer with short pitch length.<br><b>Number of cores ≥ 12:</b> 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        | <b>Cores &lt; 0.5 mm<sup>2</sup>:</b> colour code in accordance with DIN 47100<br><b>Cores ≥ 0.5 mm<sup>2</sup>:</b> cores black with white numerals, one core green/yellow.   |
|  | Outer jacket               | Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in Energy Chains® (following DIN VDE 0282 Part 10).<br>Colour: green (similar to RAL 6005)   |

Class 5.3.2



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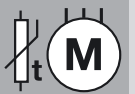
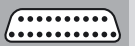
|  |            |   |
|--|------------|---|
|  | UL/CSA     | <p>≤ 1.5 mm<sup>2</sup>: Style 1007 and 2464, 300 V, 80 °C</p> <p>≥ 2.5 mm<sup>2</sup>: Style 1011 and 2570, 600 V, 80 °C</p> |
|  | CEI        | Following CEI 20-35   |
|  | CE         | Following 2006/95/EG  |
|  | Lead free  | Following EU guideline (RoHS) 2002/95/EC  |
|  | Clean room | According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1                                      |

## Typical application area

- for high load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- especially for freely suspended and gliding travel distances up to 100 m
- storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes

Control cable

Tel. +49-2203-96 49-0  
Fax +49-2203-96 49-222



**850 types from stock no cutting costs ...**  
 ... and order online ► [www.igus.eu/en/CF5](http://www.igus.eu/en/CF5) (for up to 10 cuts of the same type)

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# PVC Control cable Chainflex® CF5

- for high load requirements
- PVC outer jacket
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| Delivery program<br>Part No. | Number of cores and<br>conductor nominal<br>cross section [mm <sup>2</sup> ] | External<br>diameter<br>approx. [mm] | Copper<br>index<br>[kg/km] | Weight<br>[kg/km] |
|------------------------------|--|--------------------------------------|----------------------------|-------------------|
| CF5.02.36                    | 36 x 0.25  | 14.5                                 | 87                         | 275               |
| CF5.03.15                    | 15 x 0.34  | 10.0                                 | 49                         | 133               |
| CF5.03.18                    | 18 x 0.34  | 11.5                                 | 59                         | 172               |
| CF5.03.25                    | 25 x 0.34  | 13.5                                 | 82                         | 234               |
| CF5.05.02                    | 2 x 0.5  | 5.5                                  | 10                         | 34                |
| CF5.05.03                    | 3 G 0.5  | 6.0                                  | 15                         | 42                |
| CF5.05.05                    | 5 G 0.5  | 7.0                                  | 24                         | 72                |
| CF5.05.07                    | 7 G 0.5  | 8.0                                  | 34                         | 77                |
| CF5.05.12                    | 12 G 0.5   | 11.5                                 | 58                         | 158               |
| CF5.05.18                    | 18 G 0.5   | 13.5                                 | 86                         | 230               |
| CF5.05.25                    | 25 G 0.5   | 17.0                                 | 121                        | 310               |
| CF5.05.30                    | 30 G 0.5   | 18.5                                 | 144                        | 402               |
| CF5.07.03                    | 3 G 0.75   | 6.5                                  | 22                         | 63                |
| CF5.07.04                    | 4 G 0.75   | 7.0                                  | 29                         | 72                |
| CF5.07.05                    | 5 G 0.75   | 8.0                                  | 36                         | 85                |
| CF5.07.07                    | 7 G 0.75   | 9.0                                  | 50                         | 108               |
| CF5.07.12                    | 12 G 0.75  | 12.0                                 | 86                         | 240               |
| CF5.07.18                    | 18 G 0.75  | 15.5                                 | 130                        | 322               |
| CF5.07.25                    | 25 G 0.75  | 19.0                                 | 181                        | 432               |
| CF5.07.36                    | 36 G 0.75  | 22.0                                 | 259                        | 564               |
| CF5.07.42                    | 42 G 0.75  | 23.5                                 | 302                        | 610               |
| CF5.10.03                    | 3 G 1.0  | 7.0                                  | 29                         | 62                |
| CF5.10.04                    | 4 G 1.0  | 8.0                                  | 39                         | 85                |
| CF5.10.05                    | 5 G 1.0  | 8.5                                  | 48                         | 100               |
| CF5.10.07                    | 7 G 1.0  | 10.0                                 | 68                         | 145               |
| CF5.10.12                    | 12 G 1.0   | 13.5                                 | 116                        | 260               |
| CF5.10.18                    | 18 G 1.0   | 17.5                                 | 173                        | 450               |
| CF5.10.25                    | 25 G 1.0   | 19.5                                 | 241                        | 590               |
| CF5.15.03                    | 3 G 1.5  | 8.0                                  | 44                         | 95                |
| CF5.15.04                    | 4 G 1.5  | 8.0                                  | 58                         | 120               |
| CF5.15.05                    | 5 G 1.5  | 10.0                                 | 72                         | 170               |
| CF5.15.07                    | 7 G 1.5  | 11.0                                 | 101                        | 220               |
| CF5.15.12                    | 12 G 1.5   | 16.0                                 | 173                        | 320               |
| CF5.15.18                    | 18 G 1.5   | 22.0                                 | 260                        | 550               |
| CF5.15.25                    | 25 G 1.5   | 24.0                                 | 361                        | 810               |
| CF5.15.36                    | 36 G 1.5   | 26.0                                 | 518                        | 980               |

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.  
G = with earthed conductor green-yellow    x = without earthed conductor

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Price index



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| Delivery program<br>Part No. | Number of cores and<br>conductor nominal<br>cross section [mm <sup>2</sup> ] | External<br>diameter<br>approx. [mm] | Copper<br>index<br>[kg/km] | Weight<br>[kg/km] |
|------------------------------|--|--------------------------------------|----------------------------|-------------------|
| CF5.25.04                    | 4 G 2.5  | 11.0                                 | 96                         | 200               |
| CF5.25.05                    | 5 G 2.5  | 12.0                                 | 120                        | 250               |
| CF5.25.07                    | 7 G 2.5  | 15.0                                 | 168                        | 340               |
| CF5.25.12                    | 12 G 2.5   | 21.0                                 | 288                        | 667               |
| CF5.25.18                    | 18 G 2.5   | 27.5                                 | 432                        | 970               |
| CF5.25.25                    | 25 G 2.5   | 31.5                                 | 600                        | 1366              |

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.  
G = with earthed conductor green-yellow x = without earthed conductor



Order example: **CF5.07.03** – in your desired length (0.5 m steps)

CF5 Chainflex® series **.07** Code nominal cross section **.03** Number of cores



Please use [www.chainflex.eu/en/CF5](http://www.chainflex.eu/en/CF5) for your online order.



Delivery time 24h or today\*

\* Delivery time means time until shipping of goods

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CF5/CF6 for shelf control units: long travel in the longitudinal axis. E-Chain®: Series E4/00 with iglus® guide trough out of steel



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