

CF5
PVC
6,8-7,5xd

PVC Control cable | CF5

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



- Conductor** Fine-wire stranded conductor 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
- Outer jacket** Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 13).
Colour: Moss green (similar to RAL 6005)
- CFRIP** Strip cables 50% faster! The tear strip is in the outer jacket. Video ► www.igus.eu/CFRIP
- Bending radius** **moved** < 10 m travel moved minimum 6,8 x d
≥ 10 m travel moved minimum 7,5 x d
fixed minimum 4 x d
- Temperature** **moved** +5 °C to +70 °C for use in energy chains® with > 50.000 cycles
-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2
fixed -20 °C to +70 °C
- v max. unsupported/gliding** 10 m/s, 5 m/s
- a max.** 80 m/s²
- Travel distance** Freely suspended travel distances and up to 100 m for gliding applications, Class 4
- Torsion** ± 90°, with 1 m cable length
- UV-resistant** Medium

Class 5.4.2 (5 high load requirements 4 travel distance up to 100 m 2 oil-resistant)

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- Nominal voltage** 300/500 V (following DIN VDE 0245).
- Testing voltage** 2000 V (following DIN VDE 0281-2).
- Oil** Oil-resistant (following DIN EN 50363-4-1), Class 2.
- 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 10492 and 2570, 600 V, 80 °C
≥ 0,5 mm²: Style 11113 and 2570, 600 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 2, material/cable tested by IPA according to ISO 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

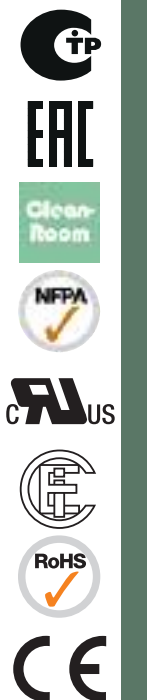
Temperature, from/to [°C]	Travel distance [m]	5 million		7,5 million		10 million	
		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5 / +15		< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
+15 / +60	≤ 100	7,5	10	8,5	11	9,5	12
+60 / +70		6,8	7,5	7,8	8,5	8,8	9,5
		7,5	10	8,5	11	9,5	12

* higher number of double strokes possible

Typical application area

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

CHAINFLEX® CF5
Image exemplary.



PVC Control cable | CF5

Strip cables 50% faster!

IGUS® CHAINFLEX® CF5

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF5.02.36	36 x 0,25	15,0	105	215
CF5.03.15	15 x 0,34	10,0	54	141
CF5.03.18	18 x 0,34	11,5	65	208
CF5.03.25	25 x 0,34	13,5	90	295
CF5.05.02	2 x 0,5	6,0	11	38
CF5.05.03	3 G 0,5	6,0	16	42
CF5.05.05	5 G 0,5	7,0	27	71
CF5.05.07	7 G 0,5	8,0	38	80
CF5.05.12	12 G 0,5	11,0	64	134
CF5.05.18	18 G 0,5	13,0	96	195
CF5.05.25	25 G 0,5	16,0	132	289
CF5.05.30	30 G 0,5	18,0	159	451
CF5.07.03	3 G 0,75	6,5	24	56
CF5.07.04	4 G 0,75	7,0	33	68
CF5.07.05	5 G 0,75	7,5	41	84
CF5.07.07	7 G 0,75	9,0	58	118
CF5.07.12	12 G 0,75	12,5	96	194
CF5.07.18	18 G 0,75	15,0	143	278
CF5.07.25	25 G 0,75	17,5	203	397
CF5.07.36	36 G 0,75	22,0	285	605
CF5.07.42	42 G 0,75	24,0	333	658
CF5.10.03	3 G 1,0	6,5	32	57
CF5.10.04	4 G 1,0	7,0	43	80
CF5.10.05	5 G 1,0	8,0	53	97
CF5.10.07	7 G 1,0	9,5	78	135
CF5.10.12	12 G 1,0	13,0	127	235
CF5.10.18	18 G 1,0	16,5	191	318
CF5.10.25	25 G 1,0	19,5	264	503

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

Class 5.4.2 (5 high load requirements 4 travel distance up to 100 m 2 oil-resistant)

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF5.15.03	3 G 1,5	7,5	48	77
CF5.15.04	4 G 1,5	8,0	64	108
CF5.15.05	5 G 1,5	9,0	79	132
CF5.15.07 ⁽¹⁷⁾	7 G 1,5	10,5	112	187
CF5.15.12	12 G 1,5	15,0	191	276
CF5.15.18	18 G 1,5	19,5	285	496
CF5.15.25	25 G 1,5	21,5	396	670
CF5.15.36	36 G 1,5	26,5	570	1001
CF5.25.04	4 G 2,5	10,0	102	176
CF5.25.05	5 G 2,5	11,0	128	208
CF5.25.07 ⁽¹⁷⁾	7 G 2,5	13,0	181	291
CF5.25.12	12 G 2,5	18,5	303	499
CF5.25.18	18 G 2,5	23,5	456	794
CF5.25.25	25 G 2,5	27,5	637	1100

(17) Using the cables with "7 G 1,5 mm²" and "7 G 2,5 mm²" it is essential: bending radius 17 x d with travel distance ≥ 5 m.
When the travel distance is not less than 5 m, a bending radius not less than 17 x d has to be used.

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



chainflex® CF5/CF6 for shelf control units: long travel in the longitudinal axis. e-chain®: Serie E4/00 with igus® guide trough out of steel



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