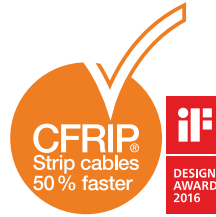


Motor cable | PVC | chainflex® CF30

- For heavy duty applications
- PVC outer jacket
- Oil-resistant
- Flame retardant



Dynamic information

Bend radius	e-chain® linear flexible	minimum 7.5 x d minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain® linear flexible	+5 °C to +70 °C
	fixed	-5 °C to +70 °C (following DIN EN 60811-504)
	gliding	-15 °C to +70 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	5 m/s
a max.		80 m/s ²
Travel distance		Unsupported travel distances and up to 100 m for gliding applications, Class 5
Torsion		± 90°, with 1 m cable length, Class 2

Cable structure

Conductor	Cores < 10 mm²: Stranded conductor in especially bending-resistant design consisting of bare copper wires (following DIN EN 60228). Cores ≥ 10 mm²: Conductor consisting of pre-wound conductor bundles (following DIN EN 60228).
Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
Core structure	Cores wound with a short pitch length around a high tensile strength centre element.
Core identification	Black cores with white numerals, one core green-yellow. 1. Core: U / L1 / C / L+ 2. Core: V / L2 3. Core: W / L3 / D / L- 4. Core: 4 / N
Outer jacket	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-4-1). Colour: Jet black (similar to RAL 9005)
CFRIP®	Strip cables faster: a tear strip is moulded into the outer jacket Video ► www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0298-3)
Testing voltage	4000 V (following DIN EN 50395)

Basic requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6	7	≥ 400 m
Oil resistance	none	1	2	3	4	highest			
Torsion	none	1	2	3	±180°				

Class 5.5.2.2

Properties and approvals

UV resistance	Medium.
Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2.
Flame retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
UL/CSA	Style 10492 and 2570, 1000 V, 80 °C
NFFPA	Following NFFPA 79-2012 chapter 12.9.
EAC	Certificate no. RU C-DE.ME77.B.02324 (TR ZU)
CTP	Certificate no. C-DE.PB49.B.00420 (Fire safety)
CEI	Following CEI 20-35.
Lead-free	Following 2011/65/EU (RoHS-II).
Cleanroom	According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA according to standard 14644-1.
CE	Following 2014/35/EU.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	10	11	12
+15/+60	7.5	8.5	9.5
+60/+70	10	11	12

* Higher number of double strokes? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For heavy duty applications
- Light oil influence
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Unsupported travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling equipment, indoor cranes



Example image

Motor cable | PVC | chainflex® CF30

Strip cables 50% faster

igus® chainflex® CF30

Example image

Class 5.5.2.2

Basic requirements
Travel distance
Oil resistance
Torsion

low	1	2	3	4	5	6	7	highest
unsupported	1	2	3	4	5	6	7	≥ 400 m
none	1	2	3	4	highest			
none	1	2	3	±180°				

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF30.15.04	4G1.5	8.5	64	106
CF30.25.04	4G2.5	10.5	106	160
CF30.25.05	5G2.5	11.5	132	210
CF30.40.04	4G4.0	12.0	174	258
CF30.40.05	5G4.0	13.0	218	315
CF30.60.04	4G6.0	14.0	253	362
CF30.60.05	5G6.0	15.5	317	444
CF30.100.04	4G10.0	17.5	435	614
CF30.100.05	5G10.0	20.0	547	758
CF30.160.04	4G16.0	21.0	697	918
CF30.160.05	5G16.0	24.0	879	1164
CF30.250.04	4G25.0	25.5	1094	1417
CF30.350.04	4G35.0	29.0	1551	1936
CF30.500.04	4G50.0	35.0	2222	2764

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core x = without earth core



Order example: **CF30.15.04** – to your desired length (0.5 m steps)
CF30 chainflex® series .15 Code nominal cross section .04 Code Number of cores



Online order ► www.chainflex.eu/CF30



Delivery time 24h or today.
Delivery time means time until shipping of goods.

