- PVC outer jacket
- shielded
- oil-resistant
- flame-retardant





Conductor

< 10 mm<sup>2</sup>: stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).

≥ 10 mm<sup>2</sup>: conductor cable consisting of pre-leads

(following EN 60228).

Core insulation

Mechanically high-quality, especially low-capacitance TPE

Core stranding

Cores stranded in short pitch lengths over a centre for high

Core identification

**Energy conductor:** Cores black 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

PVC mixture adapted to suit the requirements in energy chains<sup>®</sup>.



Overall shield

Outer jacket

**CFRIP** 

Inner jacket

Extremely bending-resistant braiding made of tinned copper

wires. Coverage approx. 70% linear, approx. 90% optical. Low-adhesion, oil-resistant mixture on the basis of PVC, adap-

ted to suit the requirements in energy chains® (following DIN VDE

0281 Part 13). Colour: Jet black (similar to RAL 9005) Strip cables 50% faster! The tear strip is in the inner jacket

(starting from manufacturing date 5/2013).

Temperature

Bending radius

**moved** minimum 7,5 x d minimum 4 x d

10 m/s, 5 m/s

Medium

+5 °C to +70 °C for use in energy chains® moved

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

Video ▶ www.igus.eu/CFRIP

unsupported/gliding

a max.

80 m/s<sup>2</sup>

Travel distance

Freely suspended travel distances and up to 100 m for gliding

applications, Class 4

**UV-resistant** 



HAINFLEX CF31

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1030 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

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

600/1000 V (following DIN VDE 0250). Nominal voltage

Testing voltage 4000 V (following DIN VDE 0281-2).

Oil-resistant (following DIN EN 50363-4-1), Class 2.

oil 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** Style 10492 and 2570, 1000 V, 80 °C

**NFPA** Following NFPA 79-2012 chapter 12.9 **NEPA** 

CEI Following CEI 20-35

CE Following 2006/95/EG

Following 2011/65/EC (RoHS-II) Lead free

According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested Clean room

by IPA according to standard 14644-1.

**CTP** Certified according to № C-DE.PB49.V.00397

**EAC** Certified according to Nº TC RU C-DE.ME77.B.00964

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ▶ Page 22-25									
Double strokes					5 million	7,5 million	10 million		
Temperature,	v max.	[m/s]	a max.	Travel distance	R min.	R min.	R min.		
from/to [°C]	unsupporte	d gliding	[m/s <sup>2</sup> ]	[m]	[factor x d]	[factor x d]	[factor x d]		
-5 / +5					10	11	12		
+5 / +60	10	5	80	≤ 100	7,5	8,5	9,5		
+60 / +70					10	11	12		

<sup>\*</sup> 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/packaging machines, quick handling, indoor cranes









... no minimum order quantity ... igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu

## Strip cables 50% faster!

## IGUS® CHAINFLEX® CF31

Image exemplary.

Delivers	Ni walang at anggan ang	Cutowal	00000	\\/aicht
Delivery program	Number of cores and	External	Copper	Weight
Part No.	conductor nominal	diameter	index	[kg/km]
	cross section [mm²]	max. [mm]	[kg/km]	
CF31.15.04	(4 G 1,5)C	10,5	94	168
CF31.25.04	(4 G 2,5)C	12,0	141	250
CF31.25.05	(5 G 2,5)C	13,0	174	295
CF31.40.04	(4 G 4,0)C	13,5	217	328
CF31.40.05	(5 G 4,0)C	15,0	281	401
CF31.60.04	(4 G 6,0)C	16,0	318	487
CF31.60.05	(5 G 6,0)C	18,0	385	562
CF31.100.04	(4 G 10,0)C	20,5	539	796
CF31.100.05	(5 G 10,0)C	22,5	687	960
CF31.160.04	(4 G 16,0)C	23,5	823	1129
CF31.250.04	(4 G 25,0)C	28,5	1254	1720
CF31.350.04	(4 G 35,0)C	32,5	1716	2307
CF31.500.04	(4 G 50,0)C	37,5	2420	3177
CF31.700.04 <sup>(5)</sup>	(4 G 70,0)C	43,0	3454	4085

(5) Cable with PVC core insulation, UL-Style 10579 and 2570 , 600 V,  $80^{\circ}$ 

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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G = with green-yellow earth core x = without earth core



Order example: CF31.25.04 – in your desired length (0,5 m steps) CF31 chainflex® series .25 Code nominal cross section .04 Number of cores



price list online www.chainflex.eu/CF31



delivery despatched in 24 hours or today















