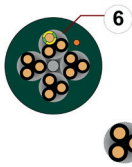
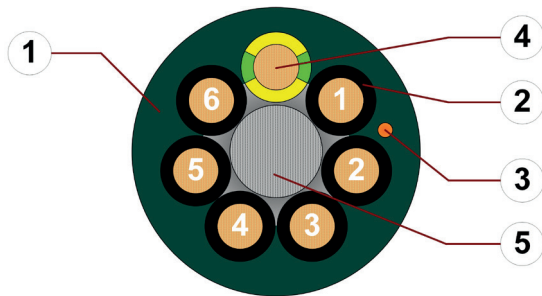


# Data sheet

## chainflex® CF5



Control cable (Class 5.5.2.2) • For heavy duty applications • PVC outer jacket • Oil-resistant  
• Flame-retardant



Example image  
For detailed overview please see design table

### Cable structure

	<b>Conductor</b>	Finely stranded conductor consisting of bare copper wires (following DIN EN 60228).
	<b>Core insulation</b>	<b>Cores <math>\leq 0.5\text{mm}^2</math>:</b> mechanically high-quality TPE mixture. <b>Cores <math>\geq 0.75\text{mm}^2</math>:</b> mechanically high-quality PVC mixture.
	<b>Core structure</b>	<b>Number of cores <math>&lt; 12</math>:</b> Cores wound in a layer with short pitch length. <b>Number of cores <math>\geq 12</math>:</b> Cores wound in bundles which are then wound around a high tensile strength centre element, all with optimised short pitch lengths and directions. Especially low-torsion structure.
	<b>Core identification</b>	<b>Cores <math>\leq 0.5\text{mm}^2</math>:</b> Colour code in accordance with DIN 47100. <b>Cores <math>\geq 0.5\text{mm}^2</math>:</b> Black cores with white numbers, one green-yellow core.
	<b>Outer jacket</b>	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-4-1). Colour: Moss green (similar to RAL 6005) Printing: white
	<b>CFRIP®</b>	Strip cables faster: a tear strip is moulded into the outer jacket Video ► <a href="http://www.igus.eu/CFRIP">www.igus.eu/CFRIP</a>

„00000 m“\*\*\* igus chainflex CF5.--.--① -----② 300/500V E310776

cRUus AWM Style 2570 VW-1 AWM I/II A/B 80°C 600V FT1 CE

RoHS-II conform [www.igus.de](http://www.igus.de) +++ chainflex cable works +++

\* **Length printing:** Not calibrated. Only intended as an orientation aid.

① / ② Cable identification according to Part No. (see technical table).

Example: ... chainflex **CF5.02.36 36x0.25 300 V/500 V** ...









# Data sheet

## chainflex® CF5



Control cable (Class 5.5.2.2) • For heavy duty applications • PVC outer jacket • Oil-resistant  
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### Dynamic information

	<b>Bend radius</b>	<b>e-chain® linear</b> <b>flexible</b> <b>fixed</b>	minimum 6.8 x d minimum 5 x d minimum 4 x d
	<b>Temperature</b>	<b>e-chain® linear</b> <b>flexible</b> <b>fixed</b>	+5°C up to +70°C -5°C up to +70°C (following DIN EN 60811-504) -15°C up to +70°C (following DIN EN 50305)
	<b>v max.</b>	<b>unsupported</b> <b>gliding</b>	10m/s 5m/s
	<b>a max.</b>		80m/s²
	<b>Travel distance</b>		Unsupported travels and up to 100 m for gliding applications, Class 5
	<b>Torsion</b>		Torsion ±90°, with 1m cable length, Class 2

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

### Guaranteed service life according to guarantee conditions

Double strokes	5 million		7.5 million		10 million	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [x d]	R min. [x d]	R min. [x d]	R min. [x d]
+5/+15	7.5	10	8.5	11	9.5	12
+15/+60	6.8	7.5	7.8	8.5	8.8	9.5
+60/+70	7.5	10	8.5	11	9.5	12

Minimum guaranteed service life of the cable under the specified conditions.

The installation of the cable is recommended within the middle temperature range.

### Electrical information

	<b>Nominal voltage</b>	300/500V (following DIN VDE 0298-3) 600V (following UL)
	<b>Testing voltage</b>	2000V (following DIN EN 50395)



igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



Example image

igus® chainflex® CF5

# Data sheet

## chainflex® CF5



Control cable (Class 5.5.2.2) • For heavy duty applications • PVC outer jacket • Oil-resistant  
• Flame-retardant



### 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, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame
	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	PTFE-free	The design of these products does not contain PTFE
	UL-verified	Certificate No. V293650: „igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“
	UL/CSA AWM	Details see table UL/CSA AWM
	NFPA	Following NFPA 79-2018, chapter 12.9
	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
	Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1
	CE	Following 2014/35/EU

### Properties and approvals

#### UL/CSA AWM Details

Conductor nominal cross section [mm²]	Number of cores	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.25	36	10492	2570	600	80
0.34	15-25	10492	2570	600	80
0.5	2-30	10492	2570	600	80
0.75	3-42	11113	2570	600	80
1	3-25	11113	2570	600	80
1.5	3-36	11113	2570	600	80
2.5	4-25	11113	2570	600	80



Example image