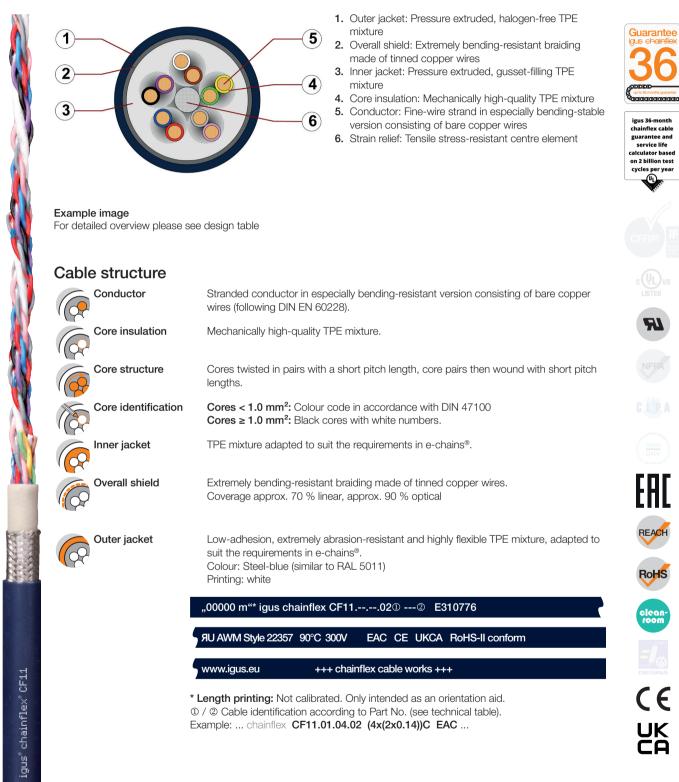


Data cable (Class 6.6.4.1) ● For extremely heavy duty applications ● TPE outer jacket ● Shielded ● Twisted pair ● Oil and bio-oil resistant ● PVC and halogen-free ● Hydrolysis and microbe-resistant



Example image

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HENNLICH -ŽIJEME TECHNIKOU o.z. LIN-TECH HENNLICH s.r.o. Českolipská 9, 412 01 Litoměřice



Guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test

cycles per yea

Data cable (Class 6.6.4.1) ● For extremely heavy duty applications ● TPE outer jacket ● Shielded ● Twisted pair ● Oil and bio-oil resistant ● PVC and halogen-free ● Hydrolysis and microbe-resistant

Dynamic information Bend radius e-chain® linear minimum 6.8 x d flexible minimum 5 x d fixed minimum 4 x d e-chain® linear -35 °C up to +100 °C Temperature -50 °C up to +100 °C (following DIN EN 60811-504) flexible fixed -55 °C up to +100 °C (following DIN EN 50305) unsupported 10 m/s v max gliding 6 m/s 100 m/s² a max. Unsupported travel distances and up to 400 m for gliding applications, Class 6 Travel distance

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	12.5 million
Temperatur, von/bis [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35/-25	7.5	8.5	9.5
-25/+90	6.8	7.5	8.5
+90/+100	7.5	8.5	9.5

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

Nominal voltage 300/300 V 300 V (follo

300/300 V (following DIN VDE 0298-3) 300 V (following UL)

Testing voltage

1500 V (following DIN EN 50395)

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REACH

RoHS

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Data cable (Class 6.6.4.1) • For extremely heavy duty applications • TPE outer jacket • Shielded • Twisted pair • Oil and bio-oil resistant • PVC and halogen-free • Hydrolysis and microbe-resistant

UV resistance	High	
Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4	
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	igus 36- chainfle guarant
Halogen-free	Following DIN EN 60754	servic calculato on 2 billi cycles p
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
	Details see table UL AWM	
H EAC	Certificate No. RU C-DE.ME77.B.00300/19 (TR ZU)	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	5
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	NE
Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1	
E CE	Following 2014/35/EU	
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	

Properties and approvals

UL AWM details

[mm ²]		insultation	jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.14	8-36	11884	22357	300	90
0.25	2-28	11884	22357	300	90
0.34	16	11884	22357	300	90
0.5	8-16	11884	22357	300	90
0.75	6	11884	22357	300	90
1	8	11884	22357	300	90
1.5	12	11884	22357	300	90

Example image

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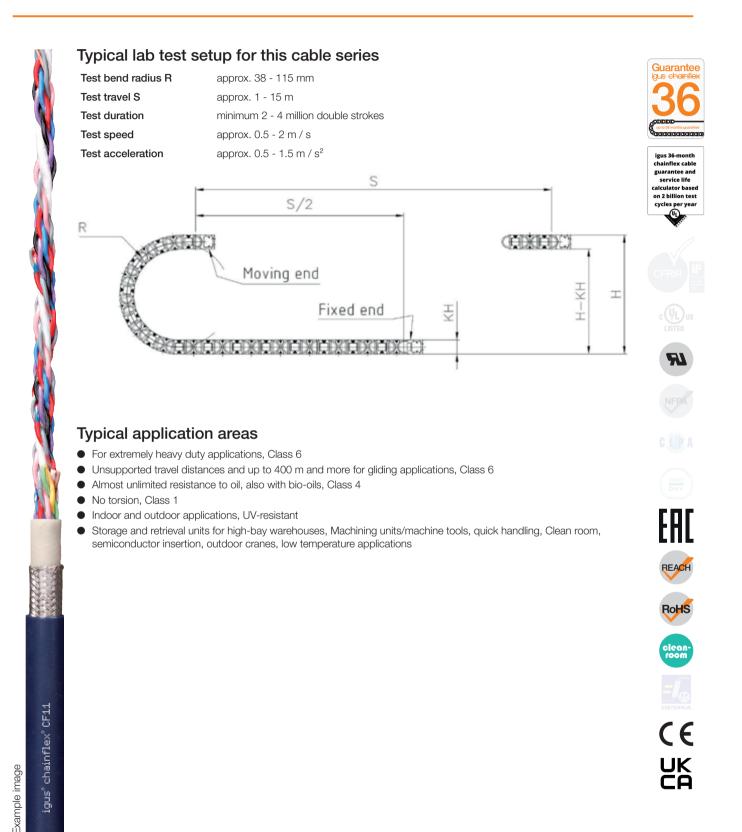
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Data sheet chainflex® CF11



Data cable (Class 6.6.4.1) • For extremely heavy duty applications • TPE outer jacket Shielded Twisted pair Oil and bio-oil resistant PVC and halogen-free Hydrolysis and microbe-resistant



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Guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test

REACH

RoHS

CE

cycles er yea

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0	s° chainflex° CF11

Technical tables:

Mechanical	information

ArtNr.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm ²]	[mm]	[kg/km]	[kg/km]
CF11.01.04.02	(4x(2x0.14))C	7.5	30	63
CF11.01.18.02	(18x(2x0.14))C	12.5	101	202
CF11.02.01.02	(2x0.25)C	6.0	17	39
CF11.02.02.02 2)	(2x(2x0.25))C	6.5	26	47
CF11.02.03.02	(3x(2x0.25))C	8.0	35	78
CF11.02.04.02	(4x(2x0.25))C	8.5	42	90
CF11.02.05.02	(5x(2x0.25))C	9.0	49	100
CF11.02.06.02	(6x(2x0.25))C	10.0	69	125
CF11.02.10.02	(10x(2x0.25))C	13.5	103	207
CF11.02.14.02	(14x(2x0.25))C	14.0	124	228
CF11.03.08.02	(8x(2x0.34))C	13.0	106	209
CF11.05.04.02	(4x(2x0.5))C	9.5	77	140
CF11.05.06.02	(6x(2x0.5))C	12.0	103	198
CF11.05.08.02	(8x(2x0.5))C	14.5	135	251
CF11.07.03.02	(3x(2x0.75))C	10.5	83	155
CF11.10.04.02	(4x(2x1.0))C	12.5	125	232
CF11.15.06.02	(6x(2x1.5))C	16.5	247	420

²⁾ The chainflex[®] types marked with ²⁾ are cables designed as a star-quad.

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

Electrical information

Conductor nominal cross section [mm ²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Max. current rating at 30 °C [A]
0.14	138	2.5
0.25	79	5
0.34	57	7
0.5	39	10
0.75	26	14
1	19.5	17
1.5	13.3	21

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

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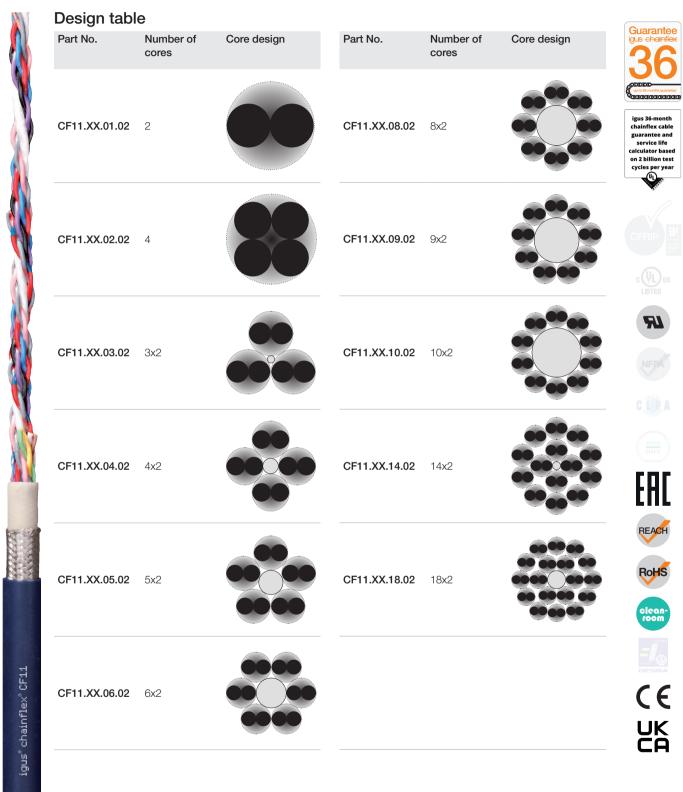
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Example image

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Guarantee

igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

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Colour code in accordance with DIN 47100

Conductor no.	Colours according to DIN ISO 47100	Conductor no.	Colours according to DIN ISO 47100
1	white	19	white-pink
2	brown	20	pink-brown
3	green	21	white-blue
4	yellow	22	brown-blue
5	grey	23	white-red
6	pink	24	brown-red
7	blue	25	white-black
8	red	26	brown-black
9	black	27	grey-green
10	violet	28	yellow-grey
11	grey-pink	29	pink-green
12	red-blue	30	yellow-pink
13	white-green	31	green-blue
14	brown-green	32	yellow-blue
15	white-yellow	33	green-red
16	yellow-brown	34	yellow-red
17	white-grey	35	green-black
18	grey-brown	36	yellow-black



chainflex[®] CF11

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