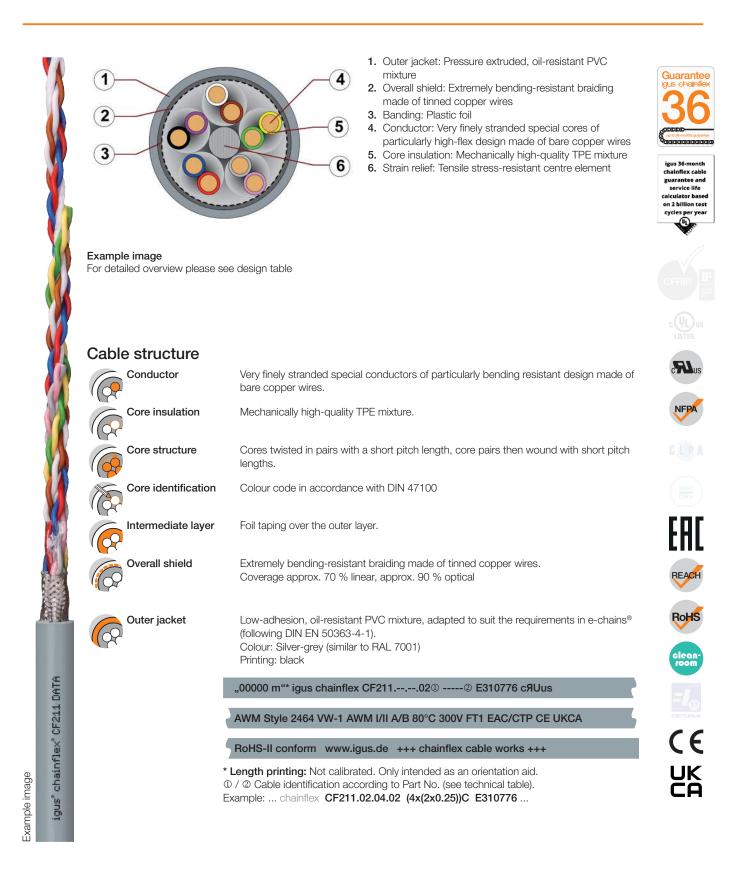


Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant





Guarantee

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

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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant

Dynamic information

Bend radius	e-chain [®] linear flexible fixed	minimum 7.5 x d minimum 6 x d minimum 4 x d
* Temperature	e-chain [®] linear flexible fixed	+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)
v max.	unsupported gliding	5 m/s 3 m/s
a max.	50 m/s ²	
Travel distance	Unsupported travels a	and up to 100 m for gliding applications, Class 5

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
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

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

Testing voltage

1500 V (following DIN EN 50395)

Example image

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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant

Properties and ap	provals	
Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2	gus chainflex
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podde podd podd
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	igus 36-month chainflex cable guarantee and
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	service life calculator based on 2 billion test cycles per year
UL/CSA AWM	See table UL/CSA AWM details	W
NFPA FPA	Following NFPA 79-2018, chapter 12.9	
EAC	Certificate No. RU C-DE.ME77.B.00300/19	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	NEPA
Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF240.02.24 - tested by IPA according to standard DIN EN ISO 14644-1	
ECE	Following 2014/35/EU	
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	
_H		EHC

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm ²]	Number of cores	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.25	2-28	10493	2464	300	80
0.34	6-16	10493	2464	300	80
0.5	2-28	10493	2464	300	80

Example image

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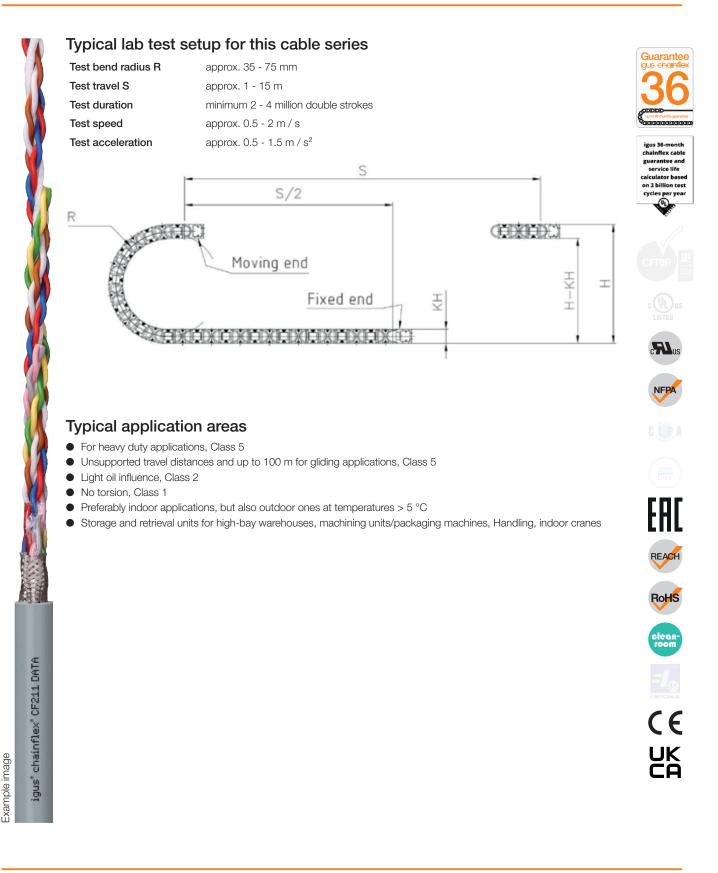
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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant



Data sheet chainflex® CF211

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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded • Twisted pair • Oil-resistant • Flame retardant

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]	
CF211.02.01.02	(2x0.25)C	5.0	18	33	Yaac
CF211.02.02.02 ²⁾	(2x(2x0.25))C	6.5	25	51	igu: chai
CF211.02.03.02	(3x(2x0.25))C	7.0	36	63	gua se calcu
CF211.02.04.02	(4x(2x0.25))C	7.5	44	76	on 2 cycl
CF211.02.05.02	(5x(2x0.25))C	8.5	52	92	
CF211.02.06.02	(6x(2x0.25))C	9.0	62	105	
CF211.02.08.02	(8x(2x0.25))C	10.5	78	137	
CF211.02.10.02	(10x(2x0.25))C	12.0	90	170	
CF211.02.14.02	(14x(2x0.25))C	12.0	119	204	
CF211.03.03.02	(3x(2x0.34))C	8.0	44	86	
CF211.03.08.02	(8x(2x0.34))C	12.0	102	206	
CF211.05.01.02	(2x0.5)C	6.0	26	51	
CF211.05.02.02 ²⁾	(2x(2x0.5))C	8.5	46	90	U
CF211.05.03.02	(3x(2x0.5))C	9.0	61	109	
CF211.05.04.02	(4x(2x0.5))C	9.5	74	125	
CF211.05.05.02	(5x(2x0.5))C	11.0	91	153	
CF211.05.06.02	(6x(2x0.5))C	11.5	103	189	
CF211.05.08.02	(8x(2x0.5))C	13.0	137	234	
CF211.05.10.02	(10x(2x0.5))C	15.5	181	326	

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]
0.25	79	5
0.34	57	7
0.5	39	10

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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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant

A	Design table Part No.	Number of	Core design	Part No.	Number of	Core design	Guarantee Igus chainflex
		cores			cores		<u>36</u>
	CF211.XX.01.02	2		CF211.XX.06.02	6x2		vi bil moth parate racial activity of the second guarantee and service life calculator based on 2 billion test cycles per year
	CF211.XX.02.02	4		CF211.XX.08.02	8x2		
	CF211.XX.03.02	3x2		CF211.XX.10.02	10x2		
	CF211.XX.04.02	4x2		CF211.XX.14.02	14x2		EAC
IA	CF211.XX.05.02	5x2					ROHS Clean-
igus" chainflex" CF211 DATA							C€ UK CA

Example image

Data sheet chainflex® CF211



Guarantee

igus 36-month chainflex cable

chainmex cable guarantee and service life calculator based on 2 billion test cycles per year ፍ

NFPA

EAC

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Data cable (Class 5.5.2.1) ● For heavy duty applications ● PVC outer jacket ● Shielded ● Twisted pair ● Oil-resistant ● Flame retardant

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" CF211 DATA

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