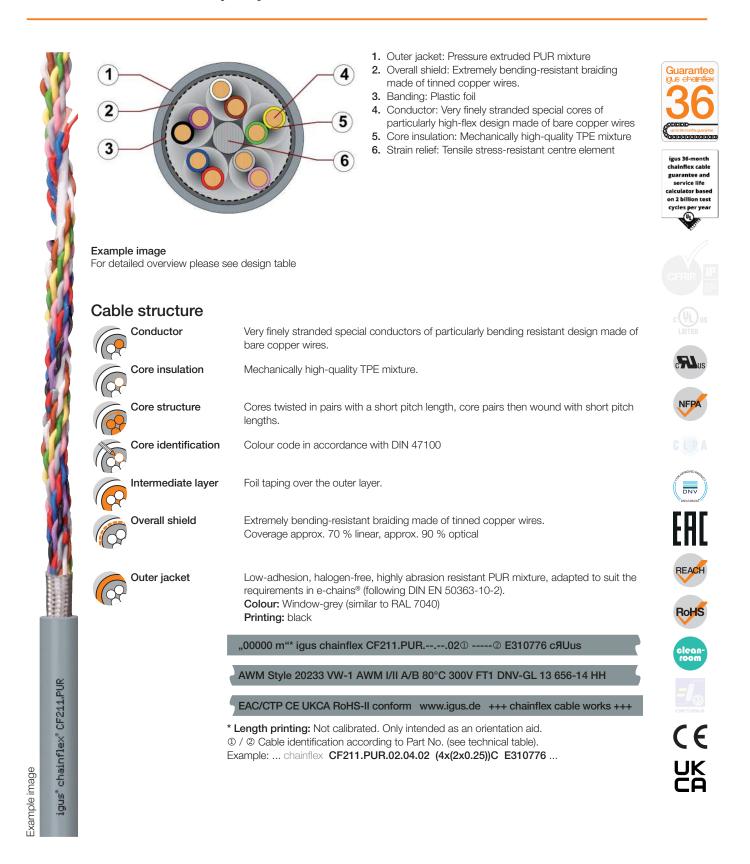


Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogenfree ● Notch-resistant ● Hydrolysis and microbe-resistant



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Guarantee

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

Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogenfree ● Notch-resistant ● Hydrolysis and microbe-resistant

	Dynamic informatio	n	
	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	-25 °C up to +80 °C -40 °C up to +80 °C (following DIN EN 60811-504) -50 °C up to +80 °C (following DIN EN 50305)
	v max.	unsupported gliding	5 m/s 3 m/s
1	a max.	50 m/s ²	
	Travel distance	Unsupported travels a	nd 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]
-25/-15	10	11	12
-15/+70	7.5	8.5	9.5
+70/+80	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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UV resistance	Medium	Gua Igus
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3	
Offshore	MUD-resistant following NEK 606 - status 2009	igus chair
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	guar ser calcul on 2 l cycle
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
Halogen-free	Following DIN EN 60754	
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
UL/CSA AWM	See table UL/CSA AWM details	
	Following NFPA 79-2018, chapter 12.9	C.
DNV-GL	Type approval certificate No. 13 656-14 HH	-
	Certificate No. RU C-DE.ME77.B.00295/19	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	(de la construction de la const
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	E
Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF77. UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1	R
CECE	Following 2014/35/EU	Ę
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	C
Properties and ap	provals	

Example image

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[mm²]

0.25

0.34

0.5

10493

10493

10493

2-28

6-16

2-28

20233

20233

20233

UK

СΩ

[V]

300

300

300

[°C]

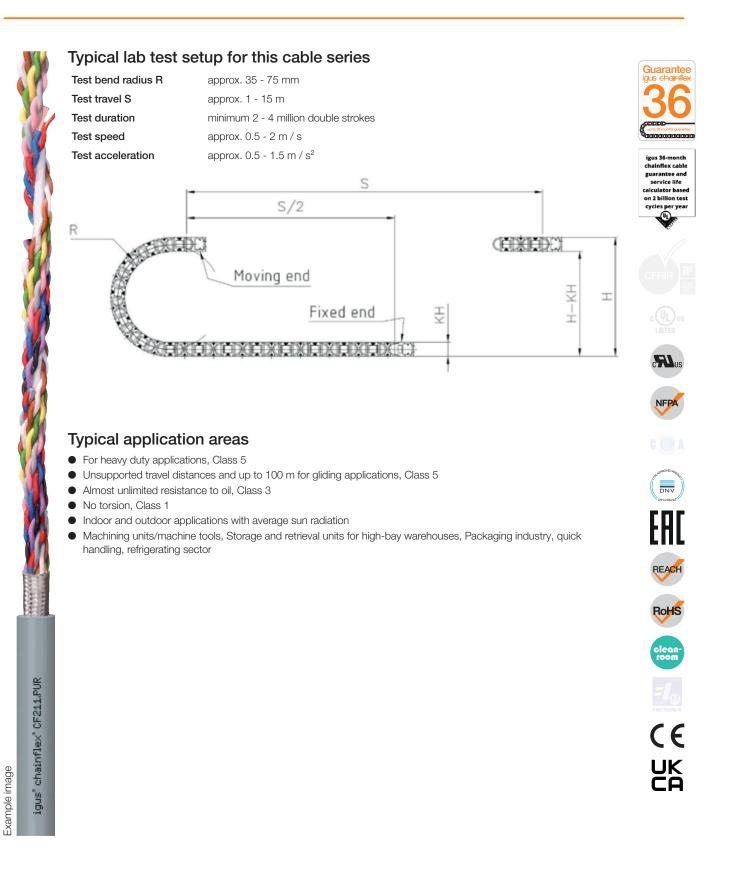
80

80

80



Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogenfree ● Notch-resistant ● Hydrolysis and microbe-resistant



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REACH

RoHS

CE

UK

СА

Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded • twisted pair • Oil resistant and coolant-resistant • Flame retardant • PVC and halogenfree

Notch-resistant
Hydrolysis and microbe-resistant

Technical tables: Mechanical information					Guai gus e
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.PUR.02.01.02	(2x0.25)C	5.0	18	32	Yaaaa
CF211.PUR.02.02.02 2)	(2x(2x0.25))C	6.5	25	49	igus 3 chainf
CF211.PUR.02.03.02	(3x(2x0.25))C	7.0	36	65	guara serv calcula
CF211.PUR.02.04.02	(4x(2x0.25))C	7.5	44	76	on 2 bi cycles
CF211.PUR.02.05.02	(5x(2x0.25))C	8.5	52	89	
CF211.PUR.02.06.02	(6x(2x0.25))C	9.0	62	102	
CF211.PUR.02.08.02	(8x(2x0.25))C	10.5	78	130	
CF211.PUR.02.10.02	(10x(2x0.25))C	12.0	90	168	
CF211.PUR.02.14.02	(14x(2x0.25))C	12.0	119	204	
CF211.PUR.03.03.02	(3x(2x0.34))C	8.0	44	83	
CF211.PUR.03.08.02	(8x(2x0.34))C	12.0	95	163	
CF211.PUR.05.01.02	(2x0.5)C	6.0	26	51	5
CF211.PUR.05.02.02 ²⁾	(2x(2x0.5))C	8.5	41	86	U III
CF211.PUR.05.03.02	(3x(2x0.5))C	9.0	61	105	
CF211.PUR.05.04.02	(4x(2x0.5))C	9.5	74	123	N
CF211.PUR.05.05.02	(5x(2x0.5))C	11.0	91	152	
CF211.PUR.05.06.02	(6x(2x0.5))C	11.5	103	189	
CF211.PUR.05.08.02	(8x(2x0.5))C	13.0	137	221	1630°F
CF211.PUR.05.10.02	(10x(2x0.5))C	15.5	170	297	
CF211.PUR.05.14.02	(14x(2x0.5))C	15.5	185	311	

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	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Max. current rating at 30 °C
[mm ²]	[Ω/km]	[A]
0.25	79	
0.34	57	
0.5	39	

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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	Design table						(Cremente a)
	Part No.	Number of cores	Core design	Part No.	Number of cores	Core design	Guarantee Igus chainflex
	CF211.PUR.XX.01.02	2		CF211.PUR.XX.06.02	6x2		e b sa north guardee excerta caracterization chainflex cable guarantee and service life calculator based on 2 billion test cycles per year
	CF211.PUR.XX.02.02	4		CF211.PUR.XX.08.02	8x2		
	CF211.PUR.XX.03.02	3x2		CF211.PUR.XX.10.02	10x2		
	CF211.PUR.XX.04.02	4x2		CF211.PUR.XX.14.02	14x2		Contractions of the second sec
	CF211.PUR.XX.05.02	5x2					ROHS Clean-
Example image igus° chainflex° CF211.PUR							C E UK CA

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Guarantee

igus 36-month chainflex cable

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

Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogenfree ● Notch-resistant ● Hydrolysis and microbe-resistant

Colour code in accordance with DIN 47100

Conductor no.	Colours according to DIN ISO 47100	Conductor no.	Colours according to 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.PUR

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