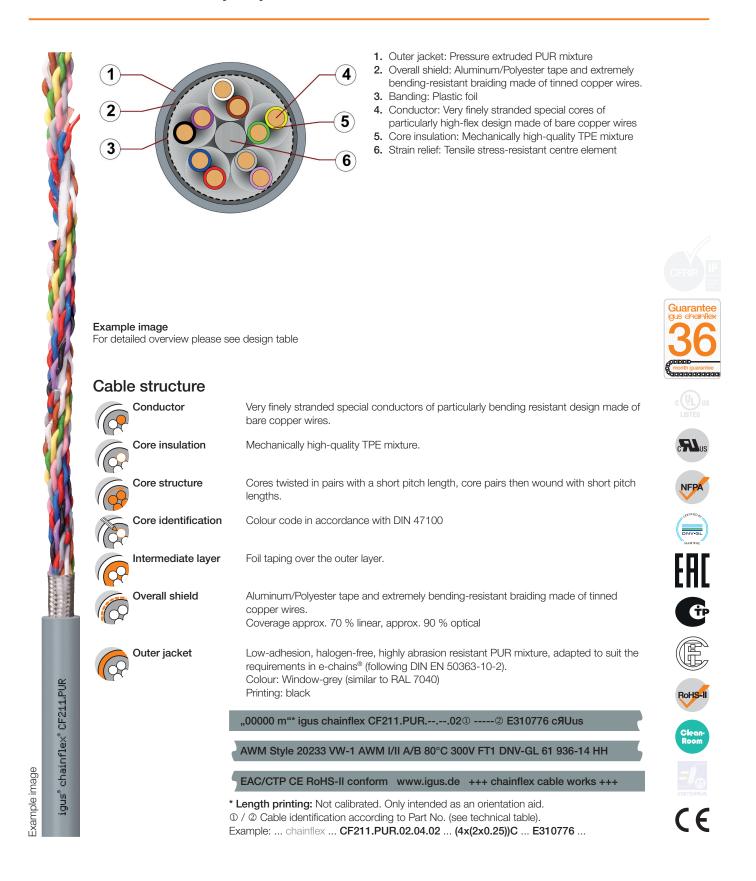


Data cable (Class 5.5.3.1) ● For heavy duty applications ● PUR outer jacket ● Shielded ● twisted pair ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogenfree ● Notch-resistant ● Hydrolysis and microbe-resistant



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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

1	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	-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				
	a max.	50 m/s ²					
	Travel distance	Unsupported travels 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]
-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



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

Testing voltage

1500 V (following DIN EN 50395)

Example image

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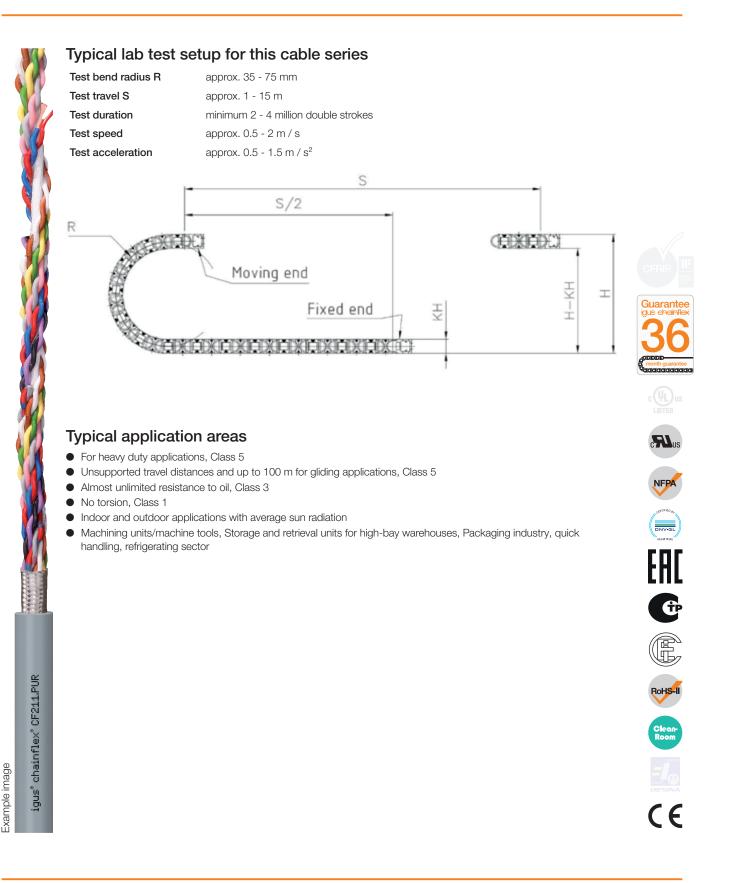
UV resistance	Medium	
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3	
oil Offshore	MUD-resistant following NEK 606 - status 2009	
Flame retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1	
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
Halogen-free	Following DIN EN 60754	
	Style 10493 and 20233, 300 V, 80 °C	Gu
	Following NFPA 79-2012, chapter 12.9	3
DNV-GL	Type approval certificate No. 13 656-14 HH	
	Certificate No. RU C-DE.ME77.B.01254 (TR ZU)	C\ I
	Certificate No. C-DE.PB49.B.00449 (Fire protection)	c
CEI	Following CEI 20-35	
Lead-free	Following 2011/65/EC (RoHS-II)	(
Clean- Room	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	E
CECE	Following 2014/35/EU	
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Example image



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Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km
CF211.PUR.02.01.02	(2x0.25)C	5.0	16	29
CF211.PUR.02.02.02 2)	(2x(2x0.25))C	6.0	23	38
CF211.PUR.02.03.02	(3x(2x0.25))C	7.0	32	62
CF211.PUR.02.04.02	(4x(2x0.25))C	7.5	40	65
CF211.PUR.02.05.02	(5x(2x0.25))C	8.5	48	81
CF211.PUR.02.06.02	(6x(2x0.25))C	9.0	56	97
CF211.PUR.02.08.02	(8x(2x0.25))C	10.5	70	124
CF211.PUR.02.10.02	(10x(2x0.25))C	12.0	90	155
CF211.PUR.02.14.02	(14x(2x0.25))C	12.0	108	175
CF211.PUR.03.03.02	(3x(2x0.34))C	8.0	44	81
CF211.PUR.03.08.02	(8x(2x0.34))C	12.0	91	147
CF211.PUR.05.01.02	(2x0.5)C	5.5	24	40
CF211.PUR.05.02.02 2)	(2x(2x0.5))C	7.0	37	59
CF211.PUR.05.03.02	(3x(2x0.5))C	9.0	55	98
CF211.PUR.05.04.02	(4x(2x0.5))C	9.5	67	118
CF211.PUR.05.05.02	(5x(2x0.5))C	10.5	83	149
CF211.PUR.05.06.02	(6x(2x0.5))C	11.5	91	174
CF211.PUR.05.08.02	(8x(2x0.5))C	13.0	125	211
CF211.PUR.05.10.02	(10x(2x0.5))C	15.0	170	265
CF211.PUR.05.14.02	(14x(2x0.5))C	15.0	187	288



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]	Maximum current rating at 30 °C (following DIN VDE 0298-4) [A]
0.25	79.0	5
0.34	57.0	7
0.5	39.0	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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	Design table						
	Part No.	Number of cores	Core design	Part No.	Number of cores	Core design	
	CF211.PUR.XX.01.02	2		CF211.PUR.XX.06.02	6x2		
	CF211.PUR.XX.02.02	4		CF211.PUR.XX.08.02	8x2		CFRIP
	CF211.PUR.XX.03.02	3x2		CF211.PUR.XX.10.02	10x2		
	CF211.PUR.XX.04.02	4x2		CF211.PUR.XX.14.02	14x2		
	CF211.PUR.XX.05.02	5x2					
igus° chainflex° CF211.PUR							RoHS-II Clean-
chainflex							Clean- Room
igus [°] chai							CE

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Example image



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Colour code in accordance with DIN 47100

	Conductor no.	Colours according to DIN ISO 47100
	1	white
	2	brown
	3	green
	4	yellow
V	5	grey
	6	pink
	7	blue
	8	red
	9	black
	10	violet
	11	grey-pink
	12	red-blue
	13	white-green
	14	brown-green
	15	white-yellow
	16	brown-yellow
	17	white-grey
	18	brown-grey
	19	white-pink
	20	white-brown
	21	white-blue

Conductor no.	Colours according to DIN ISO 47100
22	brown-blue
23	white-red
24	brown-red
25	white-black
26	brown-black
27	grey-green
28	yellow-grey
29	pink-green
30	yellow-pink
31	green-blue
32	yellow-blue
33	green-red
34	yellow-red
35	green-black
36	yellow-black
37	grey-blue
38	pink-blue
39	grey-red
40	pink-red
41	grey-black
42	pink-black

Conductor no.	Colours according to DIN ISO 47100
43	blue-black
44	red-black
45	white-brown-black
46	yellow-green-black
47	grey-pink-black
48	red-blue-black
49	white-green-black
50	brown-green-black
51	white-yellow-black
52	yellow-brown-black
53	white-grey-black
54	grey-brown-black
55	white-pink-black
56	pink-brown-black
57	white-blue-black
58	brown-blue-black
59	white-red-black
60	brown-red-black
61	black-white



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Example image

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