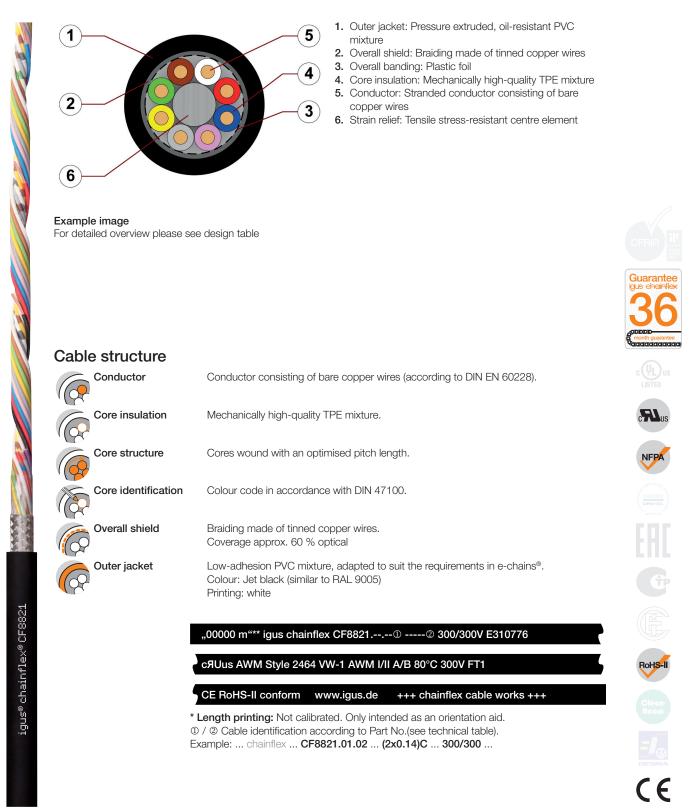


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Data cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant





Data cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant

Dynamic information e-chain® linear Bend radius minimum 12.5 x d flexible minimum 10 x d fixed minimum 7 x d e-chain® linear +5 °C up to +70 °C Temperature -5 °C up to +70 °C (following DIN EN 60811-504) flexible fixed -15 °C up to +70 °C (following DIN EN 50305) v max. unsupported 3 m/s 20 m/s² a max. Travel distance Unsupported travel distances up to 10 m, Class 1 Im1

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	1 million	3 million	5 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	15	16	17
+15/+60	12.5	13.5	14.5
+60/+70	15	16	17

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)

Testing voltage

1500 V (following DIN EN 50395)

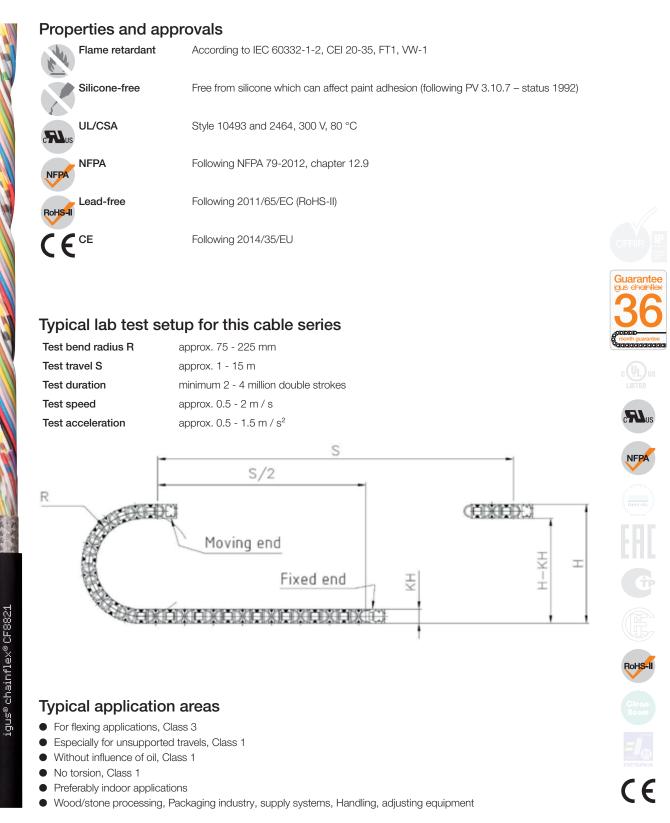
Example image

igus® chainflex® CF8821





Data cable (Class 3.1.1.1) ● For flexing applications ● PVC outer jacket ● Shielded ● Flame retardant





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Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper ind	ex Weight
	[mm ²]	[mm]	[kg/km]	[kg/km]
CF8821.01.02	(2x0.14)C	5.0	11	31
CF8821.01.03	(3x0.14)C	5.5	13	35
CF8821.01.04	(4x0.14)C	5.5	15	41
CF8821.01.05	(5x0.14)C	6.0	18	46
CF8821.01.07	(7x0.14)C	6.5	23	57
CF8821.02.02	(2x0.25)C	5.5	13	34
CF8821.02.03	(3x0.25)C	5.5	16	40
CF8821.02.04	(4x0.25)C	6.0	20	46
CF8821.02.05	(5x0.25)C	6.0	23	53
CF8821.02.07	(7x0.25)C	7.0	30	66

 \mathbf{G} = with green-yellow earth core

x = without earth core

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

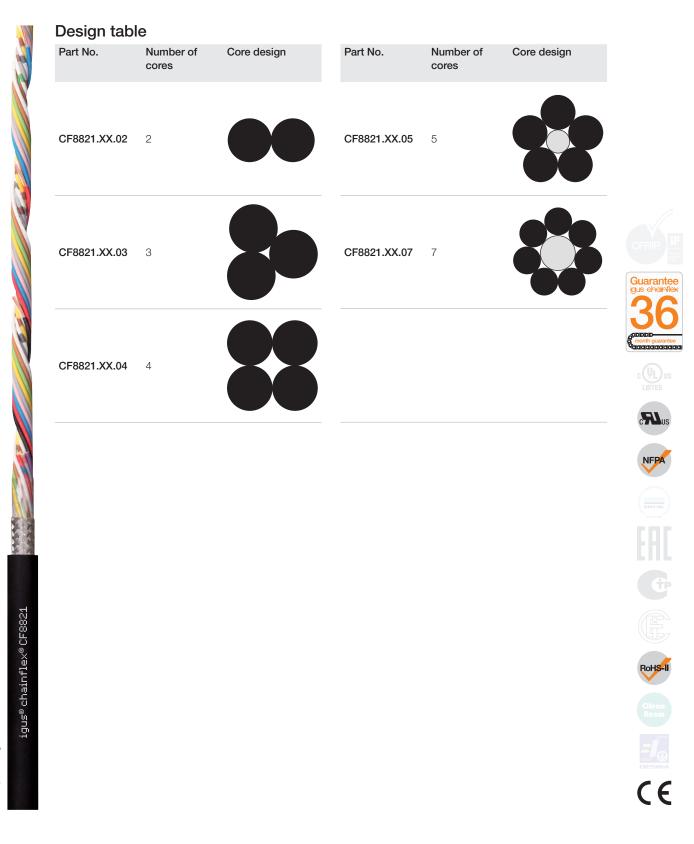
Electrical information		
Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Maximum current rating at 30 °C (following DIN VDE 0298-4)
[mm²]	[Ω/km]	[A]
0.14	138.0	2.5
0.25	79.0	5

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

igus® chainflex® CF8821



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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
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

J	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



Example image

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