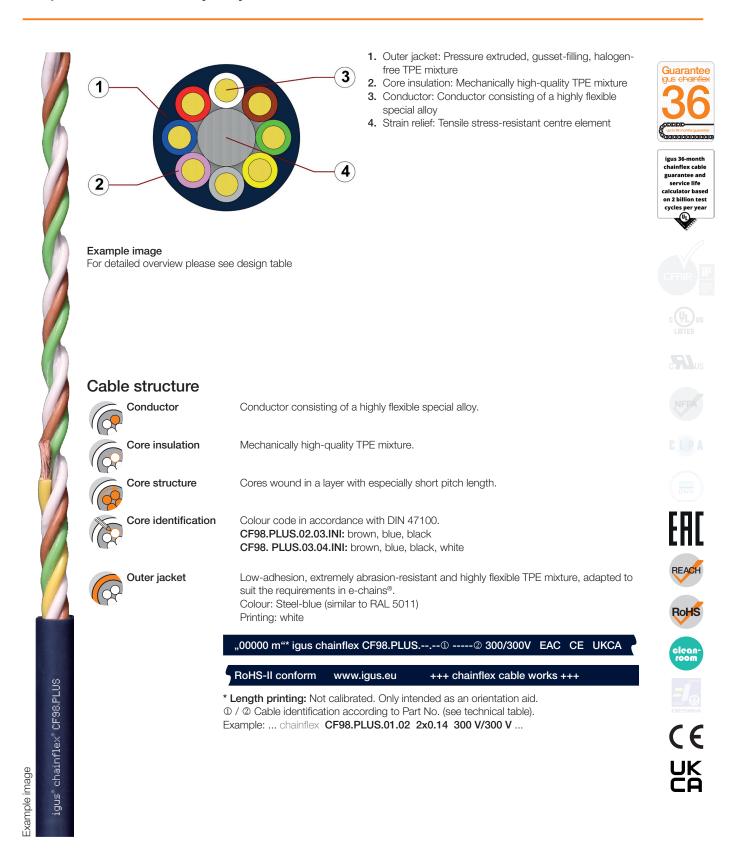


Control cable (Class 7.5.4.2) \bullet For heaviest duty applications and especially small radii down to 3 x d \bullet TPE outer jacket \bullet Oil and bio-oil resistant \bullet PVC and halogen-free \bullet Low-temperature-flexible \bullet Hydrolysis and microbe-resistant





Guarantee

chainflex cable guarantee and service life

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Bend radius	ION e-chain [®] linear flexible fixed	minimum 3 x d minimum 3 x d minimum 3 x d	
*C Temperature	e-chain [®] linear flexible fixed	-35 °C up to +90 °C -50 °C up to +90 °C (following DIN EN 60811-504) -55 °C up to +90 °C (following DIN EN 50305)	
v max.	unsupported gliding	10 m/s 6 m/s	
a max.	100 m/s ²		
Travel distance	Short, very fast applications with small radii and tight design space, Class 5		
Torsion	\pm 90°, with 1 m cable length, Class 2		

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	40 million	100 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35/-25	4	6	7
-25/+80	3	5	6
+80/+90	4	6	7

Minimum guaranteed service life of the cable under the specified conditions.

300/300 V

The installation of the cable is recommended within the middle temperature range.

Electrical information

Nominal voltage

A Tes

Testing voltage 1500 V

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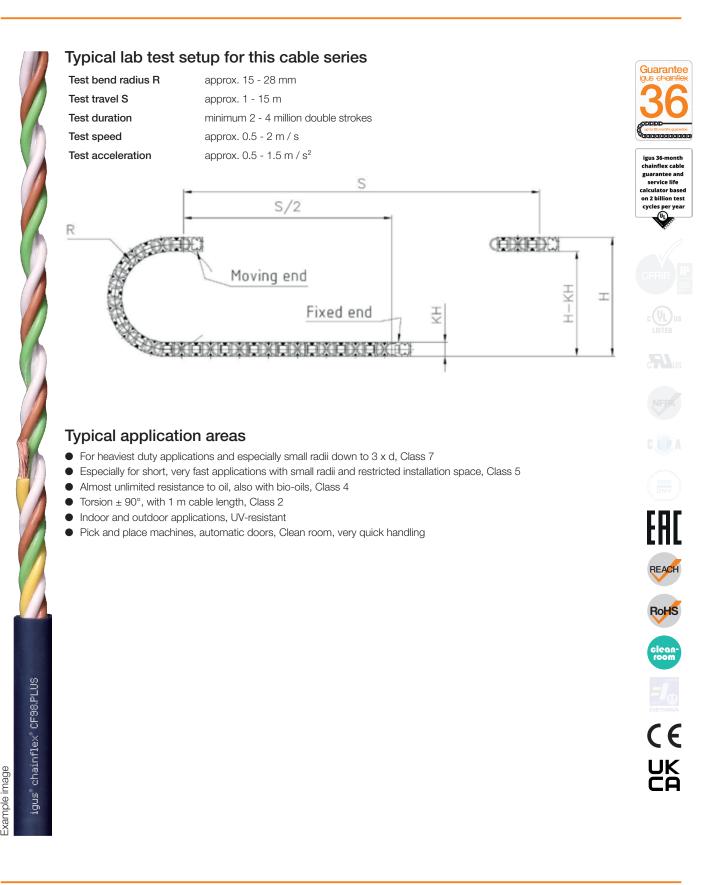


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UV resistance	High
Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
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"
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)
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
ECE	Following 2014/35/EU
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)
н	



Control cable (Class 7.5.4.2) \bullet For heaviest duty applications and especially small radii down to 3 x d \bullet TPE outer jacket \bullet Oil and bio-oil resistant \bullet PVC and halogen-free \bullet Low-temperature-flexible \bullet Hydrolysis and microbe-resistant



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Control cable (Class 7.5.4.2) • For heaviest duty applications and especially small radii down to $3 \times d \bullet TPE$ outer jacket • Oil and bio-oil resistant • PVC and halogen-free • Low-temperature-flexible • Hydrolysis and microbe-resistant

Technical tables:

	•			
Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight
	[]	[]	[(9/(())]	[rig/rin]
CF98.PLUS.01.02	2x0.14	4.5	4	18
CF98.PLUS.01.03	3x0.14	4.5	6	20
CF98.PLUS.01.04	4x0.14	5.0	7	25
CF98.PLUS.01.08	8x0.14	6.5	15	45
CF98.PLUS.02.03.INI	3x0.25	5.0	10	29
CF98.PLUS.02.04	4x0.25	5.5	14	36
CF98.PLUS.02.08	8x0.25	7.5	29	68
CF98.PLUS.03.04.INI	4x0.34	6.0	15	38
CF98.PLUS.05.04	4x0.5	6.0	32	53

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

Conductor nominal cross section [mm²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Max. current rating at 30 °C [A]
0.14	140	2,5
0.25	88	5
0.34	72	7
0.5	50	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.

Example image

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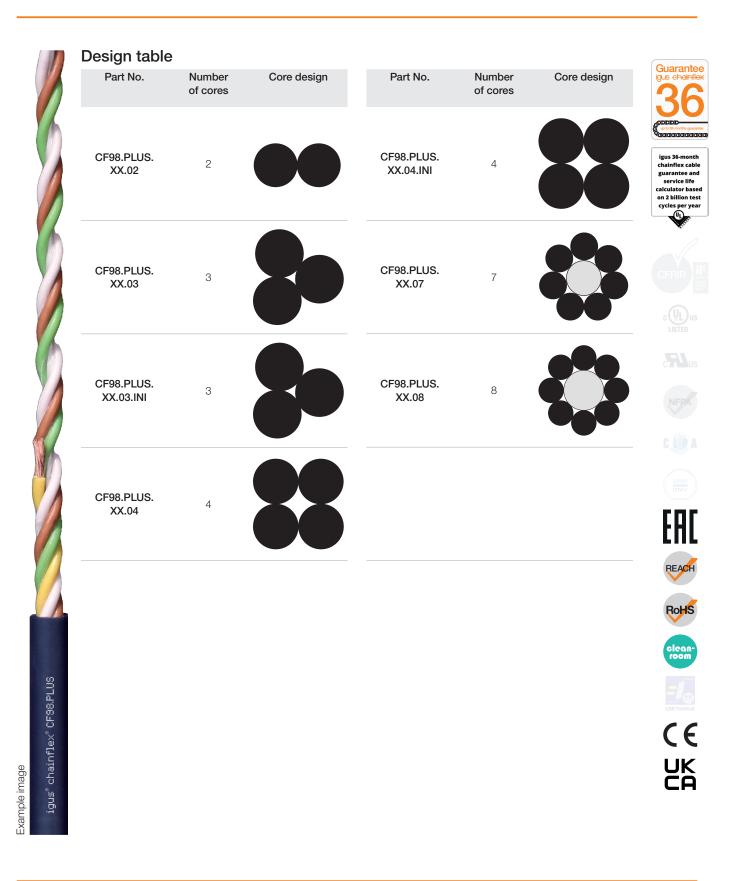








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Colour code in accordance with DIN 47100

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



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