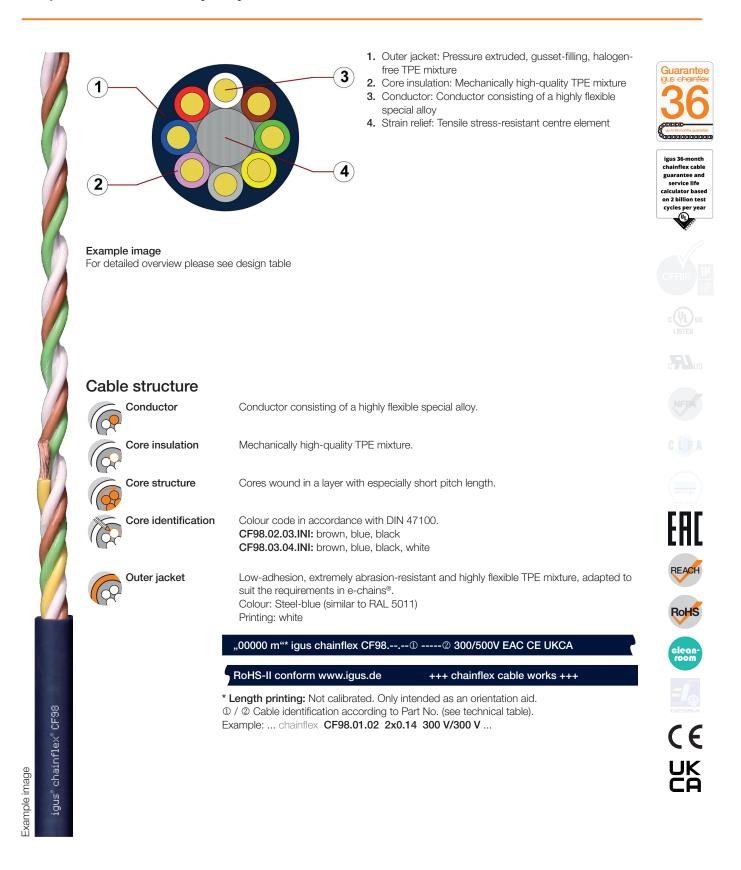


Control cable (Class 7.5.4.2)  $\bullet$  For heaviest duty applications and especially small radii down to 4 x d  $\bullet$  TPE outer jacket  $\bullet$  Oil and bio-oil resistant  $\bullet$  PVC and halogen-free  $\bullet$  Low-temperature-flexible  $\bullet$  Hydrolysis and microbe-resistant



### **Data sheet** chainflex® CF98



Guarantee

hainflex cabl guarantee and service life calculator based on 2 billion test cycles p er yea

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Dynamic information Bend radius	ON e-chain <sup>®</sup> linear flexible fixed	minimum 4 x d minimum 4 x d minimum 3 x d	
*C Temperature	e-chain <sup>®</sup> 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 <sup>2</sup>		
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

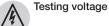
Double strokes	20 million	30 million	40 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35/-25	5	6	7
-25/+80	4	5	6
+80/+90	5	6	7

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



1500 V

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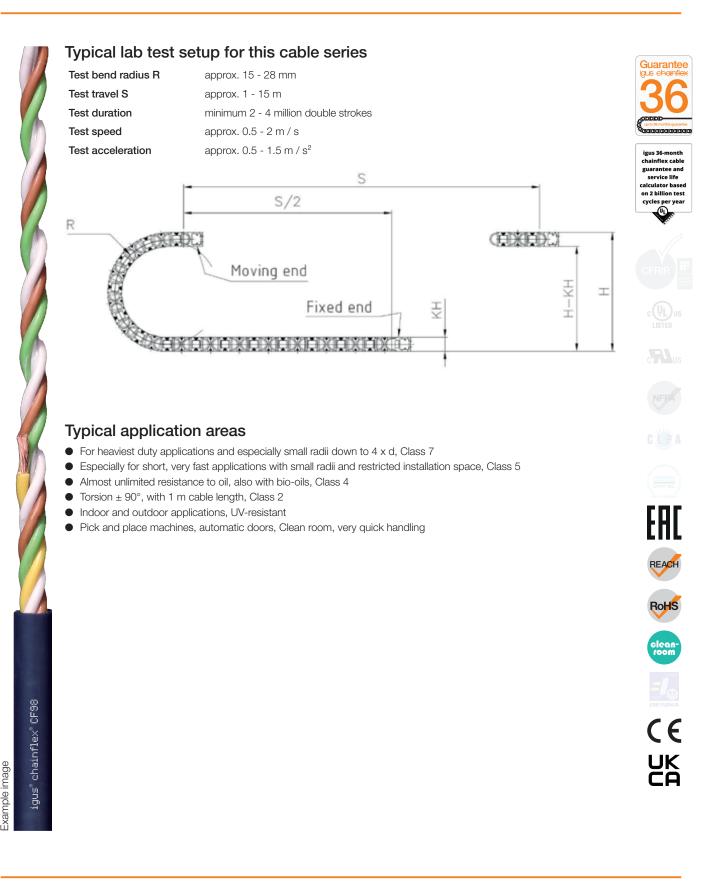


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Oil resistance Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4   Silicone-free Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)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

Mechanical information

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm <sup>2</sup> ]	[mm]	[kg/km]	[kg/km]
CF98.01.02	2x0.14	4.5	5	18
CF98.01.03	3x0.14	4.5	6	20
CF98.01.04	4x0.14	5.0	8	25
CF98.01.08	8x0.14	6.5	15	43
CF98.02.03.INI	3x0.25	5.0	11	29
CF98.02.04	4x0.25	5.5	15	36
CF98.02.07 <sup>11)</sup>	7x0.25	7.0	25	59
CF98.02.08	8x0.25	7.5	30	67
CF98.03.04.INI	4x0.34	6.0	15	39
CF98.05.04	4x0.5	6.0	33	53

<sup>11)</sup> Phase-out model

**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 Maximum conductor resistance at 20 Max. current rating at 30 °C section °C (following DIN EN 50289-1-2) [mm<sup>2</sup>] $[\Omega/km]$ [A] 0.14 140 2.5 0.25 88 5 7 0.34 72 10 0.5 50

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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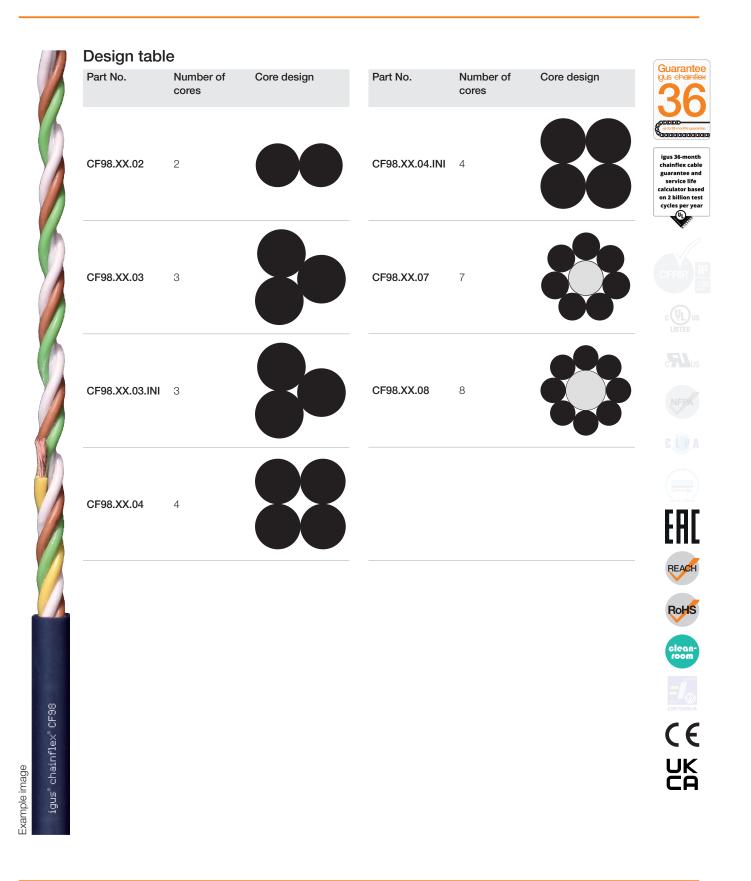
Guarantee



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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





EAC

REACH

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