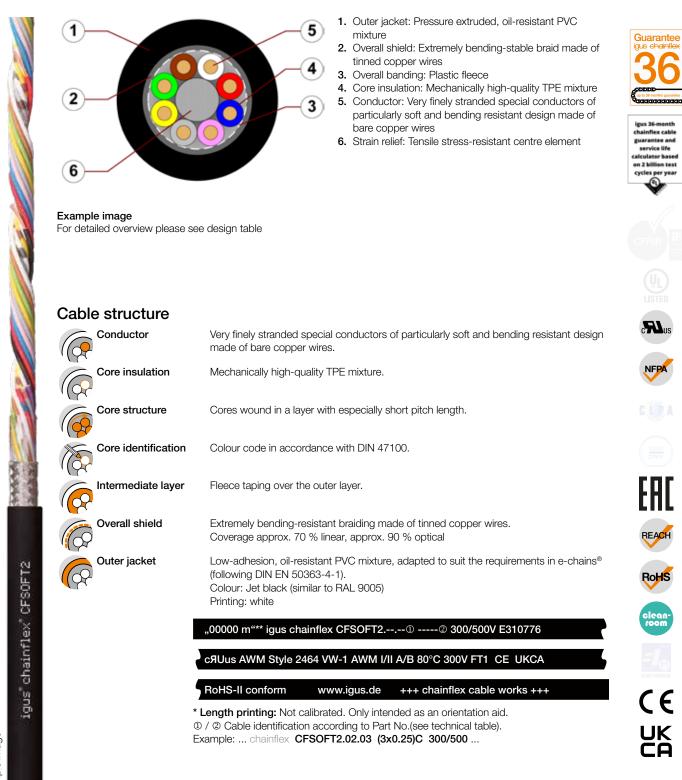


Control cable (Class 7.1.2.1) \bullet For heaviest duty applications and especially small radii down to 5 x d \bullet Highly flexible, soft design \bullet PVC outer jacket \bullet Shielded \bullet Oil-resistant \bullet Flame retardant



Example image



Guarantee

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Dynamic informatio	n	
Bend radius	e-chain [®] linear flexible fixed	minimum 5 x d minimum 4 x d minimum 3 x d
C Temperature	e-chain [®] linear flexible fixed	+5 °C up to +70 °C -5 °C up to +70 °C (following DIN EN 60811-504) -15 °C up to +70 °C (following DIN EN 50305)
v max.	unsupported gliding	10 m/s 5 m/s
a max.	80 m/s ²	
Travel distance	Very short, very fast ap	olications with small radii and tight design space, Class 1

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	10 million	15 million	20 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5/+15	6.8	7.5	8.5
+15/+60	5	6	7
+60/+70	6.8	7.5	8.5

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 30

300/500 V (following DIN VDE 0298-3) 300 V (following UL)

Testing voltage

2000 V (following DIN EN 50395)

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UV resistance	Medium	
Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2	R
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	ig ch
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	cal on cy
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
	Details see table UL AWM	
	Following NFPA 79-2018, chapter 12.9	
	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 2. The outer jacket material of this series complies with CF5.10.07 - 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)	

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm ²]	Number of cores	UL style core insultation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.25	3-8	10493	2464	300	80
0.34	4	10493	2464	300	80
0.5	4	10493	2464	300	80
0.75	4	10493	2464	300	80

08/2023

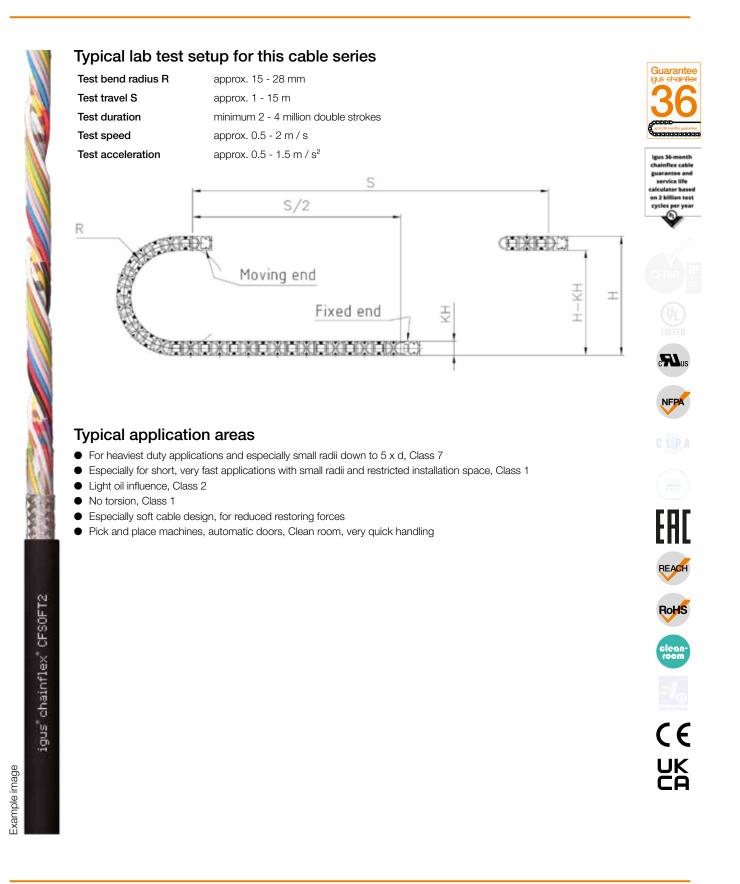
RoHS

CE

UK CA



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iuarante

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Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFSOFT2.02.03	(3x0.25)C	6.0	17	41
CFSOFT2.02.08	(8x0.25)C	7.5	38	86
CFSOFT2.03.04	(4x0.34)C	6.5	24	50
CFSOFT2.05.04	(4x0.5)C	7.5	36	80
CFSOFT2.07.04	(4G0.75)C	8.0	47	97

 \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	
[mm²]	[Ω/km]	[A]	
0.25	79.0	5	
0.34	57.0	7	
0.5	39.0	10	
0.75	26.0	14	

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

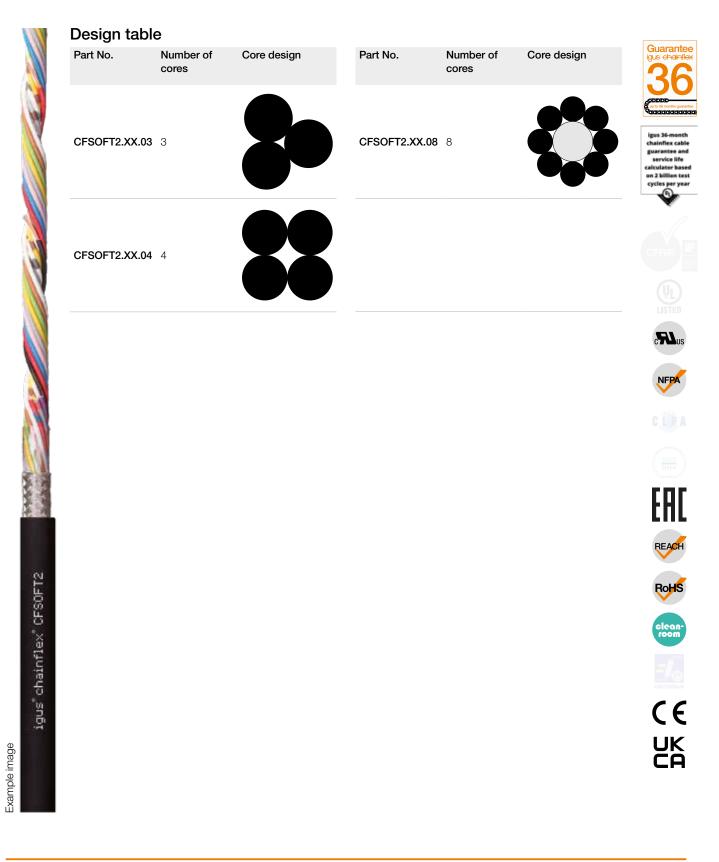
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Control cable (Class 7.1.2.1) ● For heaviest duty applications and especially small radii down to 5 x d ● Highly flexible ● soft design ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant





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

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