36 20 million

PVC outer iacket

**Dynamic information** 

Bend radius

Temperature

Travel distance

Conductor

Core insulation

Core structure

Intermediate layer

Outer jacket

Nominal voltage

Testing voltage

Properties and approvals UV resistance

Oil resistance

Overall shield

**Electrical information** 

Core identification

v max.

Cable structure

Double strokes guaranteed

For heaviest duty applications and

very small radii down to 5 x d

• Highly flexible, soft design

e-chain® linear

e-chain® linear

unsupported gliding

flexible

flexible

80m/s<sup>2</sup>

Class 1

fixed

fixed

Bend radius, e-chain®

minimum 5 x d

minimum 4 x d

minimum 3 x d

10m/s

5m/s

resistant design, made of bare copper wires.

Cores wound in a layer with especially short pitch length.

Coverage linear approx. 70%, optical approx. 90%

Oil-resistant (following DIN EN 50363-4-1), Class 2

e-chains® (following DIN EN 50363-4-1).

Colour: jet black (similar to RAL 9005)

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

2,000V (following DIN EN 50395)

Cores < 0.75mm<sup>2</sup>: Colour code in accordance with DIN 47100.

Extremely bending-resistant braiding made of tinned copper wires.

Mechanically high-quality TPE mixture.

Foil taping over the outer layer.

+5°C up to +70°C

Shielded

Oil-resistant

Flame-retardant

-5°C up to +70°C (following DIN EN 60811-504) -15°C up to +70°C (following DIN EN 50305)

Short, very fast applications with small radii and restricted installation space,

Very finely stranded special conductors with especially soft and bending

Cores ≥ 0.75mm<sup>2</sup>: Black cores with white numbers, one green-yellow core.

Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in

Travel distance, e-chain®

UL verified

RoHS Lead-free



















Flame-retardant

According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame

Silicone-free

Free from silicone which can affect paint adhesion (following PV 3.10.7 – status

Certificate No. B129699: "igus 36-month chainflex cable guarantee and

service life calculator based on 2 billion test cycles per year'

UL/CSA AWM See data sheet for details ▶ www.igus.eu/CFSOFT2

NFPA Following NFPA 79-2018, chapter 12.9

EAC Certificate No. RU C-DE.ME77.B.00300/19

REACH REACH In accordance with regulation (EC) No. 1907/2006 (REACH)

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

Following 2011/65/EC (RoHS-II/RoHS-III)

**UK** UKCA In accordance with the valid regulations of the United Kingdom (as at 08/2021)

# Guaranteed service life (details see page 28-29)

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	
* Higher number of double stro	kes? Service life calculation o	nline www.igus.eu/chainfle	xlife	

### Typical application areas

- For heaviest duty applications and very small radii down to 5 x d, Class 7
- Especially for short, very fast applications with small radii and restricted installation space, Class 1
- Light oil influence, Class 2
- No torsion, Class 1
- Especially soft cable design, for reduced forces
- Pick and place machines, automatic doors, cleanroom, very quick handling

Part No.	Number of cores and conductor nominal cross section [mm²]	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

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

# EPLAN download, configurators ▶ www.igus.eu/CFSOFT2

Medium

300V (following UL)

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges







UL-verified chainflex® guarantee ... www.igus.eu/ul-verified

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chainflex

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