# Control cable | PVC | chainflex® CFSOFT1

5m

• Oil-resistant

Flame-retardant

Travel distance, e-chain<sup>®</sup>



<b>36 20 million</b> Double strokes guaranteed	Bend ra	dius, e-chain <sup>®</sup>
<ul> <li>For heaviest duty applicativery small radii down to 5</li> <li>Highly flexible, soft desig</li> <li>PVC outer jacket</li> </ul>	5 x d	● Oil-res ● Flame

PVC

Dynan	nic information			
	Bend radius	e-chain <sup>®</sup> linear	minimum 5 x d	
		flexible	minimum 4 x d	
		fixed	minimum 3 x d	
°	Temperature	e-chain® linear	+5°C up to +70°C	
$(\bigcirc$		flexible	-5°C up to +70°C (following DIN EN 60811-504)	
		fixed	-15°C up to +70°C (following DIN EN 50305)	
V	v max.	unsupported	10m/s	
$(\bigcirc$		gliding	5m/s	
a	a max.	80m/s <sup>2</sup>		
	Travel distance	Short, very fast applications with small radii and restricted installation space, Class 1		
Cable	structure			
(Q	Conductor	Very finely stranded special conductors with especially soft and bending resistant design, made of bare copper wires.		
6	Core insulation	Mechanically high-quality TPE mixture.		
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	Core structure	Cores wound in a layer with especially short pitch length.		
	Core identification	Colour code in accordance with DIN 47100.		
6	Outer jacket	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in		
(8		e-chains <sup>®</sup> (following DIN EN 50363-4-1).		
		Colour: jet black (similar to RAL 9005)		
Electri	cal information			
Ľ.	Nominal voltage	300/500V (following DIN VDE 0298-3)		
40		300V (following UL)		
	Testing voltage	2,000V (following I	DIN EN 50395)	
Prope	rties and approvals			
	UV resistance	Medium		
	Oil registeres	Oil registent (fellow	ing DIN EN 50262 ( 1) Class 2	

Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2
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 1992)

#### EPLAN download, configurators ► www.igus.eu/CFSOFT1

**Basic requirements Travel distance** Oil resistance Class 7.1.2.1 Torsion

Certificate No. B129699: "igus service life calculator based on 2 See data sheet for details ► www
Following NFPA 79-2018, chapte
Certificate No. RU C-DE.ME77.B
In accordance with regulation (EC
Following 2011/65/EC (RoHS-II/F
According to ISO Class 2. The ou CF5.10.07 - tested by IPA accord Following 2014/35/EU
In accordance with the valid regul

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

Double strokes*	10 million	
Temperature, from/to [°C]	R min. [factor x d]	
+5/+15	6.8	
+15/+60	5	
+60/+70	6.8	

\* Higher number of double strokes? Service life calculation online > www.igus.eu/chainflexlife

### 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

🔍 UL verified

UL/CSA AWM

NFPA

NFPA

EHE EAC

CECE

REACH REACH

RoHS Lead-free

Cleanroom

- 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]
CFSOFT1.02.03	3x0.25	5.5	9	28
CFSOFT1.02.08	8x0.25	7.0	21	62
CFSOFT1.03.04	4x0.34	6.0	15	39
CFSOFT1.05.04	4x0.5	7.0	21	52

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



EU2023

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## Cables available in the chainflex<sup>®</sup> CASE

Simple savings on delivery, storage space and re-ordering with the chainflex<sup>®</sup> CASE - ship'n store by igus<sup>®</sup>.

More on this on page 24/25 and online: www.igus.eu/cf-case

Example image



36-month chainflex cable guarantee and 2 billion test cycles per year" w.igus.eu/CFSOFT1

er 12.9

B.00300/19

C) No. 1907/2006 (REACH)

RoHS-III)

uter jacket material of this series complies with rding to standard DIN EN ISO 14644-1

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

R min.

[factor x d]

8.5

7

8.5

R min. [factor x d] 7.5 6

7.5



















