Control cable | TPE | chainflex® CF99

- For heaviest duty applications and especially small radii up to 4 x d
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- PVC and halogen-free
- Low-temperature-flexible
- Hydrolysis and microbe-resistant

Dynamic information

Bend radius	e-chain®	minimum 4 x d		
	flexible	minimum 4 x d		
	fixed	minimum 3 x d		
Samperature	e-chain [®]	-35 °C to +90 °C		
	flexible	-50 °C to +90 °C (following DIN EN 60811-504)		
	fixed	-55 °C to +90 °C (following DIN EN 50305)		
v_ v max.	unsupported	10 m/s		
	gliding	6 m/s		
a max.	100 m/s ²			
Travel distance	Short, very fast applications with small radii and tight design space, Class 5			
Cable structure				
Conductor	Conductor consisting of a special highly flexible alloy.			
Core insulation	Mechanically high-quality TPE mixture.			
Core structure	Cores wound in a layer with a short pitch length.			
Core identification	Colour code in	our code in accordance with DIN 47100.		
((64-	CF99.02.03.INI: brown, blue, black			
	CF99.03.04.INI: brown, blue, black, white			
Inner jacket	TPE mixture, adapted to suit the requirements in e-chains®.			
Coverall shield	Extremely bend	ing resistant, special alloy shield.		
(cp	Coverage appro	ox. 70 % inear, approx. 90 % optical		
Couter jacket	Low-adhesion.	extremely abrasion-resistant and highly flexible TPE mixture		
(pr ·	adapted to suit	the requirements in e-chains [®] .		
	Colour: Steel-bl	ue (similar to RAL 5011)		
The state of the former stress		, , , , , , , , , , , , , , , , , , ,		

Electrical information

oltage 300/300 V

Testing voltage

1500 V

Class 7.5.4.1 Travel distance Oil resistance Torsion



Properties and approvals

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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.
EAC	Certificate no. RU C-DE.ME77.B.01254 (TR ZU)
Lead-free	Following 2011/65/EU (RoHS-II).
Cleanroom	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1.
F ^{CE}	Following 2014/35/EU.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

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	

* Higher number of double strokes? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For heaviest duty applications and especially small radii up to 4 x d
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV resistant
- Especially for short, very fast applications with small radii and tight design space
- Pick and place machines, automatic doors, Clean room, very quick handling equipment

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	mm	kg/km	kg/km
CF99.01.02	(2x0.14)C	5.5	14	33
CF99.01.04	(4x0.14)C	6.0	21	43
CF99.01.08	(8x0.14)C	8.0	36	69
CF99.02.04	(4x0.25)C	6.5	30	56
CF99.02.07	(7x0.25)C	8.0	48	85
CF99.03.08	(8x0.34)C	9.0	64	105

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

Example image

CE

Guarantee gus eheinflex 36 (month guarantee

EAE

RoHS-II

Clean Room