C€^{CE}

Part No.

CF340.40.01

CF340.160.01

CF340.250.01

CF340.350.01

CF340.500.01

CF340.700.01

CF340.950.01

CF340.1200.01

CF340.1500.01

CF340.1850.01

CF340.2400.01

G = with green-yellow earth core x = without earth core

Temperature, from/to [°C]

-35/-25

-25/+80

+80/+90

Typical mechanical application areas

For heaviest duty applications, Class 7

• Indoor and outdoor applications, UV-resistant

Class 7.6.4.1

EAC

Certificate No. RU C-DE.ME77.B.02324 (TR ZU)

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

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

R min. [factor x d]

10

7.5

10

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

• Unsupported travels and up to 400 m and more for gliding applications, Class 6

 Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling, Cleanroom, semiconductor insertion, outdoor cranes, low temperature applications

Number of cores and conductor

(1x4.0)C

(1x16)C

(1x25)C

(1x35)C

(1x50)C

(1x70)C

(1x95)C

(1x120)C

(1x150)C

(1x185)C

(1x240)C

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

nominal cross section

According to ISO Class 1. The outer jacket material of this series complies with Cleanroom CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1

R min. [factor x d]

8.5

Outer diameter

6.5

10.0

12.0

13.0

15.0

17.5

21.0

22.0

24.5

27.5

30.5

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

(d) max.

[mm]

R min. [factor x d]

12

9.5

12

Copper

[kg/km]

57

184

280

395

536

779

1015

1270

1592

2066

2566

Guarantee

Rodololololololo

index

Weight

[kg/km]

73

215

319

433

574

832

1093

1341

1642

2157

2731

Following 2014/35/EU

Almost unlimited resistance to oil, also with bio-oils, Class 4

 $[mm^2]$

Guaranteed service life (details see page 26-27)

PVC and halogen-free For heaviest duty applications TPE outer jacket

7.5 x d

- UV-resistant
- Hydrolysis and microbe-resistant

Travel distance, e-chain®

Dynamic information

Shielded

10 million

Oil and bio-oil-resistant

ymanno mnomianom		
Bend radius	e-chain® linear	mininum 7.5 x d
(CR	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain® linear	-35 °C up to +90 °C
	flexible	-50 °C up to +90 °C (following DIN EN 60811-504)
	fixed	-55 °C up to +90 °C (following DIN EN 50305)
v w max.	unsupported	10 m/s
	gliding	6 m/s
a max.	100 m/s ²	
Travel distance	Unsupported trav	vels and up to 400 m and more for gliding applications, Class 6

Cable structure

Conductor Conductor cable consisting of pre-leads (following DIN EN 60228	228).		Conductor	(6
---	-------	--	-----------	----

Core insulation Mechanically high-quality TPE mixture.

Overall shield Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 % Outer jacket

Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.

Electrical information		
Nominal voltage	600/1000 V (following DIN VDE 0298-3)	
Testing voltage	4000 V (following DIN EN 50395)	

Colour: Jet black (similar to RAL 9005)

Properties and approvals

UV resistance

UL verified

igus chainflex CF340

Oil was interes	Oil resistant (faller in a DIN EN COOM) 404) Initially resistant (faller in a VDMA
Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA
oil	24569 with Plantagut 9.5 MP tosted by DEA). Class 4

24568 with Plantocut 8 S-MB tested by DEA), Class 4 Free from silicone which can affect paint adhesion (following PV 3.10.7 – status Silicone-free

Halogen-free Following DIN EN 60754

High

Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"

EPLAN download, configurators ▶ www.igus.eu/CF340





















igus 36-month chainflex cable guarantee and service life calculator based