Following DIN EN 60754

(from production date 01/2022)

Following 2014/35/EU

R min

[factor x d]

12.5

10

12.5

• Unsupported travels and up to 400m 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

nominal cross section

[mm²]

(4x(2x0.25)C)C

(3x(2x0.5))C

(4x(2x0.5)C)C

(6x(2x0.5)C)C

(8x(2x0.5)C)C

(10x(2x0.5)C)C

(14x(2x0.5)C)C

(6x(2x1.0)C)C

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

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

1992)

Torsion

Class 6.6.4.1

Oil resistance

Silicone-free

UL verified

UL AWM

'EAC

REACH REACH

RoHS Lead-free

C€^{CE}

UK UKCA

Cleanroom

Temperature,

from/to [°C]

-35/-25

-25/+90

+90/+100

Typical application areas

No torsion, Class 1

• For heavy-duty applications, Class 6

For maximum EMC protection

• Indoor and outdoor applications, UV-resistant

Guaranteed service life (details see page 28-29)

Halogen-free

Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA

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

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

According to ISO Class 1. The outer jacket material of this series complies with

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

R min.

[factor x d]

13.5

11

13.5

R min.

[factor x d]

14.5

12

14.5

Copper

index

[kg/km]

52

65

83

128

163

203

297

198

CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1

24568 with Plantocut 8 S-MB tested by DEA), Class 4

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

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

See data sheet for details ▶ www.igus.eu/CF12

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

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

FL





- For extremely heavy duty applications
- TPE outer jacket
- Double-shielded
- Oil and bio-oil-resistant
- PVC and halogen-free
- Hydrolysis and microbe-resistant

Now available with UL approval & 25% longer service life

Dynamic information

Bend radius e-chain® linear minimum 10 x d flexible minimum 8 x d minimum 5 x d fixed Temperature e-chain® linear -35°C up to +100°C

flexible -50°C up to +100°C (following DIN EN 60811-504) fixed -55°C up to +100°C (following DIN EN 50305)

v max. unsupported 10m/s gliding 6m/s

a max. 100m/s²

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

Cable structure

Conductor Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).

Core insulation Mechanically high-quality TPE mixture.

Core structure Cores twisted in pairs with a short pitch length, core pairs then wound with short pitch lengths.

Core identification Cores < 0.5mm²: Colour code in accordance with DIN 47100.

Cores ≥ 0.5mm²: Black cores with white numbers. Element shield Extremely bending-resistant braiding made of tinned copper wires.

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

TPE mixture on pair shielding adapted to suit the requirements in e-chains®.

Inner jacket TPE mixture adapted to suit the requirements in e-chains[®].

Overall shield Highly flexible shield consisting of galvanised steel wire braid. Coverage linear approx. 70%, optical approx. 90%

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

Colour: Steel blue (similar to RAL 5011)

Electrical information

Element shield

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

1,500V (following DIN EN 50395) Testing voltage

Properties and approvals

UV resistance High

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



11) Phase-out model Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

Part No.

CF12.02.04.02

CF12.05.03.02

CF12.05.04.02

CF12.05.06.02

CF12.05.08.02

CF12.05.14.02

CF12.10.06.02

CF12.05.10.02 11)

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Telefon: +420 416 711 333 E-mail: lin-tech@hennlich.cz

Outer diameter

(d) max.

[mm]

11.5

13.5

14.5

17.0

20.5

22.5

22.5

20.0

Weight

[kg/km]

172

224

267

376

503

605

679

529

171

chainflex CF12

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