Guaranteed double strokes

Motor cable | TPE | chainflex® CF34.UL.D

# Basic requirements

#### CF34.UL.D TPE 7.5 x d

### Class 6.6.4.2

Properties and approvals	
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 Flame retardant According to IEC 60332-1-2, FT1, VW-1

Travel distance Oil resistance

Torsion

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

UL verified 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/CF34.UL.D

Following NFPA 79-2018, chapter 12.9 NFPA

DNV-GL Type approval certificate No. TAE00003X9

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

Certificate No. C-DE.PB49.B.00420 (Fire protection)

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

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

Cleanroom According to ISO Class 1, material/cable tested by IPA according to DIN EN

ISO standard 14644-1

DESINA According to VDW, DESINA standardisation

Following 2014/35/EU

### Guaranteed service life (details see page 26-27)

Double strokes*	5 million	7.5 million	10 million	
Temperature,				
from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	
-35/-25	10	11	12	
-25/+80	7.5	8.5	9.5	
+80/+90	10	11	12	
* Higher number of double strokes? Service life calculation online ▶ www.igus.eu/chainflexlife				

#### Typical mechanical application areas

- For extremely heavy duty applications, Class 6
- Unsupported travels and up to 400 m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- Torsion ±90°, with 1m cable length, Class 2
- Indoor and outdoor applications, UV-resistant
- Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling, Cleanroom, semiconductor insertion, outdoor cranes, low temperature applications

New

For extremely heavy duty applications

TPE outer jacket

36 10 million

- Oil and bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis and microbe-resistant

New core insulation with UL 90°C

Travel distance, e-chain®

#### **Dynamic information**

Bend radius e-chain® linear mininum 7.5 x d flexible minimum 6 x d fixed minimum 4 x d Temperature e-chain® linear -35 °C up to +90 °C

flexible -45 °C up to +90 °C (following DIN EN 60811-504) fixed -50 °C up to +90 °C (following DIN EN 50305)

10 m/s unsupported gliding 6 m/s 80 m/s<sup>2</sup>

a max. Travel distance

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

**Torsion** Torsion ±90°, with 1m cable length, Class 2

#### Cable structure

Conductor Cores < 10 mm<sup>2</sup>: Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).

Cores ≥ 10 mm<sup>2</sup>: Conductor cable consisting of pre-leads (following DIN EN

60228).

Core insulation Mechanically high-quality, especially low-capacitance XLPE mixture.

Cores wound with a short pitch length around a high tensile strength centre Core structure

Core identification Black cores with white numbers, one green-yellow core.

1. Core: U / L1 / C / L+ 2. Core: V / L2 3. Core: W / L3 / D / L- 4. Core: 4 / N

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

Colour: Signal black (similar to RAL 9004)

Strip cables faster: a tear strip is moulded into the outer jacket

Video ▶ www.igus.eu/CFRIP

**Electrical information** 

Outer jacket

**CFRIP®** 

Nominal voltage 600/1000 V (following DIN VDE 0298-3) 1000 V (following UL)

4000 V (following DIN EN 50395) Testing voltage

### EPLAN download, configurators ► www.igus.eu/CF34.UL.D

36 month guarantee ... 1,354 types from stock ... no cutting charges





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

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cycles per year

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

Guarantee

# Class 6.6.4.2

### www.hennlich.cz/lin-tech

# Motor cable | TPE | chainflex® CF34.UL.D

Strip cables 50 % faster

## igus chainflex CF34.UL.D

Example image

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm <sup>2</sup> ]	[mm]	[kg/km]	[kg/km]
CF34.UL.15.04.D	4G1.5	8.0	61	102
CF34.UL.25.04.D	4G2.5	10.0	100	159
CF34.UL.40.04.D	4G4.0	11.5	163	236
CF34.UL.60.04.D	4G6.0	13.5	237	332
CF34.UL.60.05.D	5G6.0	15.0	297	406
CF34.UL.100.04.D	4G10	16.5	407	537
CF34.UL.100.05.D	5G10	19.5	515	670
CF34.UL.160.04.D	4G16	20.0	646	819
CF34.UL.160.05.D	5G16	22.5	815	1009
CF34.UL.250.04.D	4G25	24.5	1014	1271
CF34.UL.100.04.O.PE.D	4x10	16.5	407	537
CF34.UL.160.04.O.PE.D	4x16	20.0	646	819

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core <math>x = without earth core



Order example: CF34.UL.15.04.D – to your desired length (0.5 m steps) CF34.UL.D chainflex® series .15 Code nominal cross section .04 Number of cores



Online order ► www.chainflex.eu/CF34.UL.D



Delivery time 24hrs or today. Delivery time means time until goods are shipped.





Reduce cost, improve technology, now!

Do the chainflex® price check now ... www.igus.eu/cf-price-check

... for example: Reduce cost with CF300.UL.D



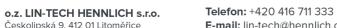


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36 month guarantee ... 1,354 types from stock ... no cutting charges

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E-mail: lin-tech@hennlich.cz

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