Motor cable | TPE | chainflex® CF35.UL







New core

insulation with

UL 90°C

- For extremely heavy duty applications
- TPE outer jacket
- Shielded
- Oil and bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis and microbe-resistant

Dynamic information

| 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 ° |

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 a max. 80 m/s²

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

Cable structure

Conductor

Cores < 10 mm²: Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).

Cores ≥ 10 mm²: Conductor cable consisting of pre-leads (following DIN EN

60228).

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

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

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

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

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

> 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 inner jacket Video ▶ www.igus.eu/CFRIP

Electrical information

CFRIP®

Outer jacket

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

1000 V (following UL)

Testing voltage 4000 V (following DIN EN 50395)

EPLAN download, configurators ► www.igus.eu/CF35.UL

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



Class 6.6.4.1

Basic requirements Travel distance Oil resistance Torsion

High



CF35.UL TPE 7.5 x d

























| 771 | |
|----------------|---|
| 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

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/CF35.UL

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. The outer jacket material of this series complies with CF34.UL.25.04.D - tested by IPA according to standard DIN EN ISO 14644-1

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
- 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



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

chainflex CF35,UL















www.hennlich.cz/lin-tech

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

Guarantee

Motor cable | TPE | chainflex® CF35.UL

Strip cables 50 % faster

igus chainflex CF35,UL

Example image

| Part No. | Number of cores and conductor nominal cross section | Outer diameter (d) max. | Copper index | Weight |
|-------------------------|---|-------------------------|--------------|---------|
| | [mm²] | [mm] | [kg/km] | [kg/km] |
| CF35.UL.05.04 | (4G0.5)C | 7.5 | 42 | 79 |
| CF35.UL.07.04 | (4G0.75)C | 8.0 | 58 | 90 |
| CF35.UL.15.04 | (4G1.5)C | 10.0 | 89 | 146 |
| CF35.UL.25.04 | (4G2.5)C | 11.5 | 133 | 207 |
| CF35.UL.40.04 | (4G4.0)C | 13.0 | 203 | 290 |
| CF35.UL.60.04 | (4G6.0)C | 16.0 | 288 | 423 |
| CF35.UL.100.04 | (4G10)C | 18.5 | 468 | 632 |
| CF35.UL.160.04 | (4G16)C | 23.0 | 738 | 974 |
| CF35.UL.250.04 | (4G25)C | 27.5 | 1153 | 1481 |
| CF35.UL.60.03.O.PE 11) | (3x6.0)C | 14.5 | 229 | 344 |
| CF35.UL.250.03.O.PE 11) | (3x25)C | 24.5 | 880 | 1163 |

¹¹⁾ Phase-out model

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



Order example: CF35.UL.05.04 – to your desired length (0.5 m steps) CF35.UL chainflex® series .05 Code nominal cross section .04 Number of cores



Online order ▶ www.chainflex.eu/CF35.UL



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 CF310.UL

EPLAN download, configurators ▶ www.igus.eu/CF35.UL



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326