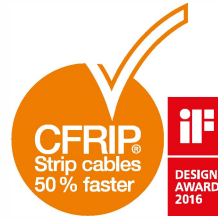


Motor cable | TPE | chainflex® CF34.UL.D

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



Dynamic information

| | | |
|------------------------|---|--|
| Bend radius | e-chain® linear flexible | minimum 7.5 x d minimum 6 x d minimum 4 x d |
| Temperature | e-chain® linear flexible | -35 °C to +90 °C -45 °C to +90 °C (following DIN EN 60811-504) -50 °C to +90 °C (following DIN EN 50305) |
| v max. | unsupported | 10 m/s |
| a max. | gliding | 6 m/s |
| Travel distance | Unsupported travel distances and up to 400 m and more for gliding applications, Class 6 | |
| Torsion | ± 90°, with 1 m cable length, Class 2 | |

Cable structure

| | | |
|----------------------------|---|--|
| Conductor | Cores < 10 mm²: Stranded conductor in especially bending-resistant design consisting of bare copper wires (following DIN EN 60228). Cores ≥ 10 mm²: Conductor consisting of pre-wound conductor bundles (following DIN EN 60228). | |
| Core insulation | Mechanically high-quality, especially low-capacitance TPE mixture. | |
| Core structure | Cores wound with a short pitch length around a high tensile strength centre element. | |
| Core identification | Black cores with white numerals, one core green-yellow. 1. Core: U / L1 / C / L+ 2. Core: V / L2 3. Core: W / L3 / D / L- 4. Core: 4 / N | |
| Outer jacket | 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) | |
| CFRIP® | Strip cables faster: a tear strip is moulded into the outer jacket Video ► www.igus.eu/CFRIP | |

Electrical information

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

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, CEI 20-35, FT1, VW-1 |
| Silicone-free | Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992). |
| UL/CSA | Style 10492 and 21184, 1000 V, 80 °C |
| NFFPA | Following NFFPA 79-2012 chapter 12.9. |
| DNV-GL | Certified according to GL type testing – Certificate no.: 61 938-14 HH |
| EAC | Certificate no. RU C-DE.ME77.B.02324 (TR ZU) |
| CTP | Certificate no. C-DE.PB49.B.00420 (Fire safety) |
| CEI | Following CEI 20-35. |
| Lead-free | Following 2011/65/EU (RoHS-II). |
| Cleanroom | According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1. |
| DESINA | According to VDW, DESINA standardisation. |
| CE | Following 2014/35/EU. |

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

| 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? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For extremely heavy duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling equipment, Clean room, semiconductor handling, outdoor cranes, low temperature applications



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

Class 6.6.4.2

| | | | | | | | | | |
|--------------------|-------------|---|---|---|---|---|---|---|---------|
| Basic requirements | low | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| Travel distance | unsupported | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 400 m |
| Oil resistance | none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| Torsion | none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ±180° |

Strip cables 50% faster



Example image

| Part No. | Number of cores and conductor nominal cross section [mm²] | Outer diameter (d) max. [mm] | Copper index [kg/km] | Weight [kg/km] |
|-------------------------------------|---|------------------------------|----------------------|----------------|
| CF34.UL.15.04.D | 4G1.5 | 8.5 | 64 | 112 |
| CF34.UL.25.04.D | 4G2.5 | 10.5 | 106 | 172 |
| CF34.UL.40.04.D | 4G4.0 | 12.0 | 174 | 255 |
| CF34.UL.60.04.D | 4G6.0 | 14.0 | 253 | 360 |
| CF34.UL.60.05.D | 5G6.0 | 15.5 | 317 | 440 |
| CF34.UL.100.04.D | 4G10.0 | 17.0 | 435 | 568 |
| CF34.UL.100.05.D | 5G10.0 | 19.0 | 550 | 729 |
| CF34.UL.160.04.D | 4G16.0 | 20.5 | 697 | 871 |
| CF34.UL.160.05.D | 5G16.0 | 23.0 | 877 | 1103 |
| CF34.UL.250.04.D | 4G25.0 | 24.5 | 1094 | 1348 |
| CF34.UL.100.04.O.PE.D | 4x10.0 | 17.0 | 435 | 568 |
| CF34.UL.160.04.O.PE.D | 4x16.0 | 20.5 | 697 | 871 |
| CF34.UL.500.03.O.PE.D ¹⁾ | 3x50.0 | 30.5 | 1650 | 2084 |

¹⁾ 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



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