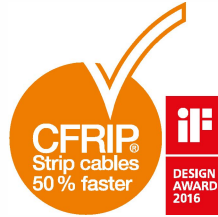


# Motor cable | TPE | chainflex® CF37.D



- For heaviest duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- PVC and halogen-free
- UV-resistant
- Hydrolysis and microbe-resistant

## Dynamic information

<b>Bend radius</b>	<b>e-chain® linear flexible</b>	minimum 7.5 x d minimum 6 x d
	<b>fixed</b>	minimum 4 x d
<b>Temperature</b>	<b>e-chain® linear flexible</b>	-35 °C to +90 °C -50 °C to +90 °C (following DIN EN 60811-504)
	<b>fixed</b>	-55 °C to +90 °C (following DIN EN 50305)
<b>v max.</b>	<b>unsupported</b>	10 m/s
	<b>gliding</b>	6 m/s
<b>a max.</b>		80 m/s <sup>2</sup>
<b>Travel distance</b>		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
<b>Torsion</b>		± 90°, with 1 m cable length, Class 2

## Cable structure

<b>Conductor</b>	<b>Cores &lt; 10 mm<sup>2</sup>:</b> Stranded conductor in especially bending-resistant design consisting of bare copper wires (following DIN EN 60228). <b>Cores ≥ 10 mm<sup>2</sup>:</b> Conductor consisting of pre-wound conductor bundles (following DIN EN 60228).
<b>Core insulation</b>	Mechanically high-quality, especially low-capacitance TPE mixture.
<b>Core structure</b>	Cores wound with a short pitch length around a high tensile strength centre element.
<b>Core identification</b>	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
<b>Outer jacket</b>	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)
<b>CFRIP®</b>	Strip cables faster: a tear strip is moulded into the outer jacket Video ► <a href="http://www.igus.eu/CFRIP">www.igus.eu/CFRIP</a>

## Electrical information

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

## Properties and approvals

<b>UV resistance</b>	High.
<b>Oil resistance</b>	Oil resistant (following DIN EN 60811-404), bio-oil resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.

## Class 7.6.4.2

<b>Silicone-free</b>	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992).
<b>Halogen-free</b>	Following DIN EN 60754.
<b>EAC</b>	Certificate no. RU C-DE.ME77.B.02324 (TR ZU)
<b>Lead-free</b>	Following 2011/65/EU (RoHS-II).
<b>Cleanroom</b>	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1.
<b>DESINA</b>	According to VDW, DESINA standardisation.
<b>CE</b>	Following 2014/35/EU.

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°

## 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](http://www.igus.eu/chainflexlife)

## Typical mechanical application areas

- For heaviest 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, cleanroom, semiconductor handling, outdoor cranes, low temperature applications

Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
<b>CF37.15.04.D</b>	4G1.5	8.5	64	99
<b>CF37.25.04.D</b>	4G2.5	10.5	107	169
<b>CF37.40.04.D</b>	4G4.0	12.0	174	240
<b>CF37.60.04.D</b>	4G6.0	14.0	259	370
<b>CF37.60.05.D</b>	5G6.0	15.5	317	394
<b>CF37.100.04.D</b>	4G10.0	17.5	453	544
<b>CF37.100.05.D</b>	5G10.0	19.5	567	741
<b>CF37.160.04.D</b>	4G16.0	20.5	697	833
<b>CF37.160.05.D</b>	5G16.0	23.5	878	1148
<b>CF37.250.04.D</b>	4G25.0	25.5	1094	1290
<b>CF37.500.03.O.PE.D</b>	3x50.0	31.0	1650	1999

**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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