Torsion

RoHS

EAC

# Class 7.6.4.2

Silicone-free

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

1992)

Following DIN EN 60754 Halogen-free

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

service life calculator based on 2 billion test cycles per year" Certificate No. RU C-DE.ME77.B.02324 (TR ZU)

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 CF9.15.07 - tested by IPA according to standard DIN EN ISO 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 stro	okes? Service life calculation of	nline www.igus.eu/chainfle	dife

### Typical mechanical application areas

- For heaviest duty applications, Class 7
- 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

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CF37.15.04.D	4G1.5	8.0	61	95
CF37.25.04.D	4G2.5	10.0	100	149
CF37.40.04.D	4G4.0	11.5	163	221
CF37.60.04.D	4G6.0	13.5	237	317
CF37.60.05.D	5G6.0	15.0	297	387
CF37.100.04.D	4G10	16.5	407	503
CF37.100.05.D	5G10	19.0	515	634
CF37.160.04.D	4G16	20.0	646	773
CF37.160.05.D	5G16	22.5	815	963
CF37.250.04.D	4G25	24.0	1014	1203
CF37.500.03.O.PE.D	3x50	30.0	1530	1826

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

# Motor cable | TPE | chainflex® CF37.D

10 million





Hydrolysis and microbe-resistant

For heaviest duty applications

TPE outer jacket

Oil and bio-oil-resistant

PVC and halogen-free

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

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

-55 °C up to +90 °C (following DIN EN 50305) fixed

UV-resistant

unsupported gliding 6 m/s

80 m/s<sup>2</sup>

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

v max.

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.

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

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)

CFRIP® Strip cables faster: a tear strip is moulded into the outer jacket Video ▶ www.igus.eu/CFRIP

### **Electrical information**

Outer jacket

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

### Properties and approvals



