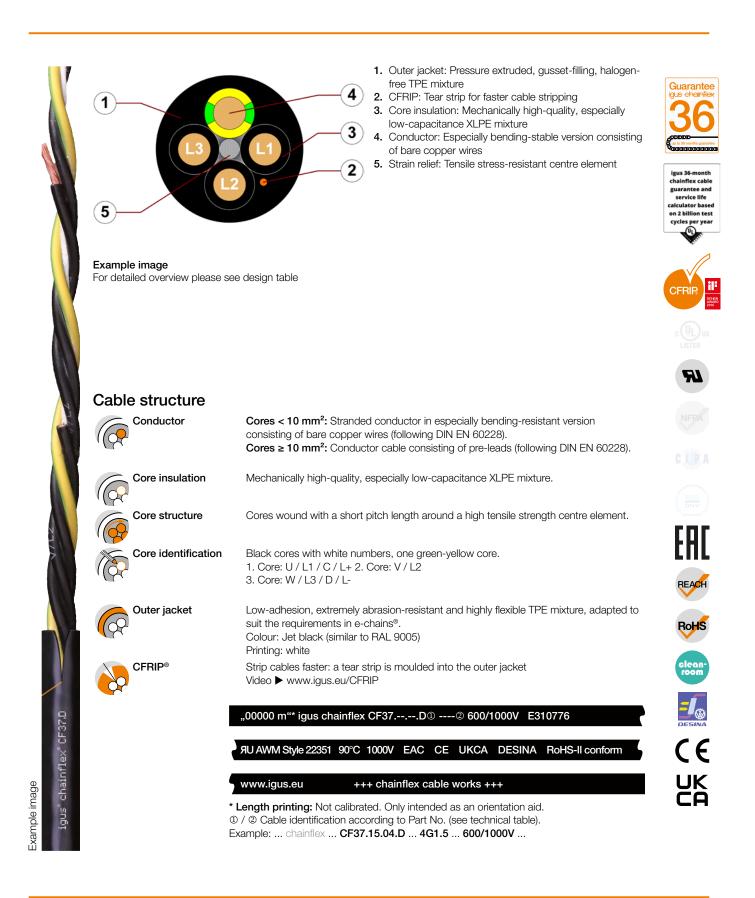


Motor cable (Class 7.6.4.2) ● For heaviest duty applications ● TPE outer jacket ● Oil and bio-oil resistant ● PVC and halogen-free ● UV-resistant ● Hydrolysis and microbe-resistant





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

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

### Guaranteed service life according to guarantee conditions

Double strokes	5 million	7.5 million	12.5 million
Temperature, from/to [°C]	R min. [Faktor x d]	R min. [Faktor x d]	R min. [Faktor x d]
-35/-25	10	11	12
-25/+80	7.5	8.5	9.5
+80/+90	10	11	12

Minimum guaranteed service life of the cable under the specified conditions.

The installation of the cable is recommended within the middle temperature range.

**Electrical information** 



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

Testing voltage

4000 V (following DIN EN 50395)

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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	8
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
Halogen-free	Following DIN EN 60754	c. 0
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
	Details see table UL AWM	
EAC	Certificate No. RU C-DE.ME77.B.02324 (TR ZU)	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
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	
<b>E</b> CE	Following 2014/35/EU	
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	

### Properties and approvals

#### UL AWM details

Conductor nominal cross section	UL style core insultation	UL style outer jacket	UL Voltage Rating	UL Temperature Rating
[mm²]			[V]	[°C]
1.5	30052	22351	1000	90
2.5	30052	22351	1000	90
4	30052	22351	1000	90
6	30052	22351	1000	90
10	30052	22351	1000	90
16	30052	22351	1000	90
25	30052	22351	1000	90
50	30052	22351	1000	90

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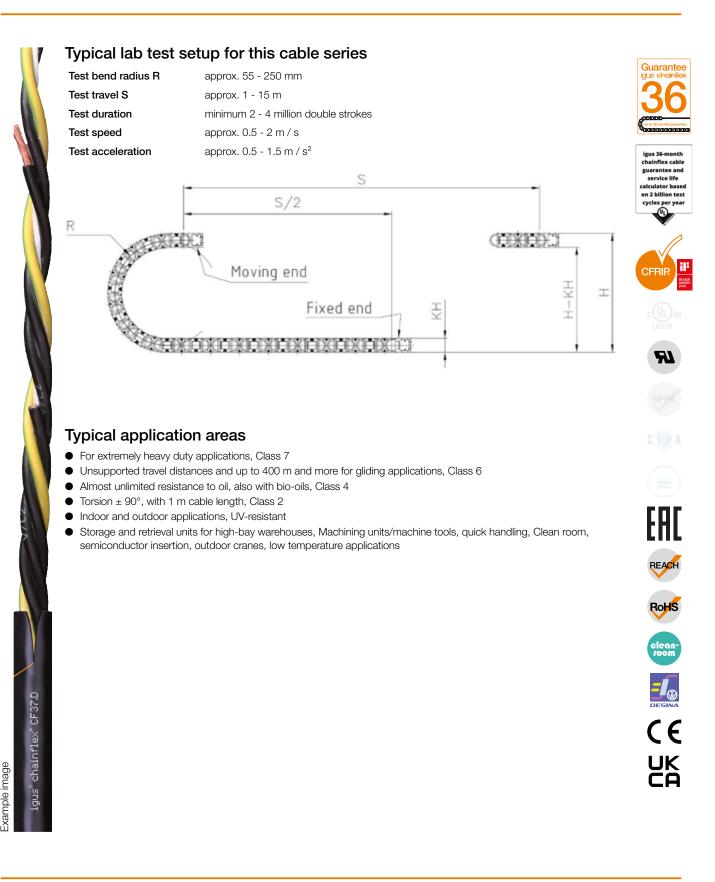
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Motor cable (Class 7.6.4.2) ● For heaviest duty applications ● TPE outer jacket ● Oil and bio-oil resistant ● PVC and halogen-free ● UV-resistant ● Hydrolysis and microbe-resistant





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### Technical tables:

Mechanical information

Electrical information

ArtNr.	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
CF37.500.03.0.PE.D	3x50	30.0	1530	1826

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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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Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Max. current rating at 30 °C
[mm <sup>2</sup> ]	[Ω/km]	[A]
1.5	13.3	21
2.5	7.98	30
4	4.95	41
6	3.3	53
10	1.91	74
16	1.21	99
25	0.78	131
50	0.39	202

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

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1	Design table			
	Part No.	Number of cores	Core design	Guarantee gus chainflex 36
	CF37.XX.03.O.PE.D	3		JUDDD Le a developmente chainflex cable guarantee and service life calculator based on 2 billion test cycles per year
t	CF37.XX.04.D	4		
1764	CF37.XX.05.D	5		
4175				e AC
				ROHS Clean-
-37.D				
nple image igus chainflex CF37D				
Example image igus chai				СН