Motor cable | TPE | chainflex® CF300.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	minimum 7.5 x d
(<u>R</u>	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain® linear	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following DIN EN 60811-504)

	fixed	-50 °C to +90 °C (following DIN EN 50305)
y max.	unsupported	10 m/s

y max.	unsupported	10 m/s
	gliding	6 m/s
a max	100 m/s ²	

Travel distance	Unsupported travel distances and up to 400 m and more for gliding applica-
	tions. Class 6

Torsion	± 90°, with 1 m cable length, Class 2

Cable structure

Conductor	Conductor	consisting	of	pre-wound	conductor	bundles	(following	DIN	ΕN
1(0	60228).								

Core insulation	Mechanically high-quality TPE mixture.
((Ç _r -	

1	Low-adhesion,	extremely	abrasion-resis	stant and	highly	flexible	TPE mixture	Э,
	adapted to suit	the require	ements in e-ch	ains®.				

Colour: Signal black (similar to RAL 9004)

Electrical information

Outer jacket

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

Testing voltage 4000 V (following DIN EN 50395

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

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	1002)

1	1992).
UL/CSA	Style 10492 and 21218, 1000 V, 80 °C

FPA	Following NFPA 79-2012 chapter 12.9.

Class 6.6.4.2

DNV-GL Certified according to GL type testing - Certificate no.: 61 938-14 HH

MARTINE	
EHE EAC	Certificate no. RU C-DE.ME77.B.02324 (TR ZU)

€ CTP	Certificate no. C-DE.PB49.B.00420 (Fire safety)
€ CEI	Following CFL 20, 25

CEI	Following CEI 20-35.
Rouse Lead-free	Following 2011/65/EU (RoHS-II).

400	
Cleanroom	According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D,

		tested by IPA according to standard 14644-1.
=	DESINA	According to VDW, DESINA standardisation.

C C CE Foll	lowing 2014/35/EU.
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Guaranteed lifetime according to guarantee conditions (Page 22-23)

Double strakes*	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 st	trokes? Online lifetime calculation	n: www.igus.eu/chainfleylife	

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

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CF300.UL.40.01.D	1x4.0	6.5	39	61
CF300.UL.60.01.D	1x6.0	7.0	58	82
CF300.UL.100.01.D	1x10.0	8.0	96	123
CF300.UL.160.01.D	1x16.0	9.5	154	189
CF300.UL.250.01.D	1x25.0	11.0	240	286
CF300.UL.350.01.D	1x35.0	12.5	336	384
CF300.UL.500.01.D	1x50.0	14.5	480	531
CF300.UL.700.01.D	1x70.0	16.5	696	757
CF300.UL.950.01.D	1x95.0	20.0	917	1023
CF300.UL.1200.01.D	1x120.0	21.5	1160	1271
CF300.UL.1500.01.D	1x150.0	23.5	1435	1550
CF300.UL.1850.01.D	1x185.0	26.5	1776	2014

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





















igus" chainflex" CF386.UL.D