36 10 million

TPE outer jacket

Flame-retardant

• Oil and bio-oil-resistant

Guaranteed double strokes

Spindle cable/Single core | TPE | chainflex® CF300.UL.D

Bend radius, e-chain[®]

400 m

• Hydrolysis and microbe-resistant

Travel distance, e-chain®

TPE

7.5 x d

• For extremely heavy duty applications • UV-resistant

Basic requirements Travel distance Oil resistance

Torsion Eollowing NIEPA 79-2018 chapter 12.9

NFPA	Following NFPA 79-2018, chapter
DNV-GL	Type approval certificate No. TAEC
EAC	Certificate No. RU C-DE.ME77.B.
СТР	Certificate No. C-DE.PB49.B.004
REACH	In accordance with regulation (EC
Lead-free	Following 2011/65/EC (RoHS-II/R
Cleanroom	According to ISO Class 1. The out CF34.UL.25.04.D - tested by IPA
DESINA	According to VDW, DESINA stand
CE	Following 2014/35/EU

Guaranteed service life (details see page 26-27)

Class 6.6.4.2

EHE EAC

CTP

REACH REACH

RoHS Lead-free

CECE

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

Typical mechanical application areas

- For extremely heavy duty applications, Class 6
- 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]
CF300.UL.40.01.D	1x4.0	6.0	41	59
CF300.UL.60.01.D	1x6.0	7.0	61	83
CF300.UL.100.01.D	1x10	7.5	100	124
CF300.UL.160.01.D	1x16	9.5	159	195
CF300.UL.250.01.D	1x25	11.5	248	294
CF300.UL.350.01.D	1x35	12.5	347	395
CF300.UL.500.01.D	1x50	14.5	495	551
CF300.UL.700.01.D	1x70	16.5	710	769
CF300.UL.950.01.D	1x95	20.0	936	1042
CF300.UL.1200.01.D	1x120	21.5	1184	1295
CF300.UL.1500.01.D	1x150	23.5	1469	1579
CF300.UL.1850.01.D	1x185	26.5	1928	2052

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



o.z. LIN-TECH HENNLICH s.r.o. Českolipská 9. 412 01 Litoměřice

Dynamic information Bend radius e-chain[®] linear mininum 7.5 x d flexible minimum 6 x d fixed minimum 4 x d Contractor Temperature e-chain[®] linear -35 °C up to +90 °C flexible -45 °C up to +90 °C (following DIN EN 60811-504) -50 °C up to +90 °C (following DIN EN 50305) fixed 10 m/s unsupported gliding 6 m/s 100 m/s² Travel distance Unsupported travels and up to 400 m and more for gliding applications, Class 6

Torsion $\pm 90^{\circ}$, with 1m cable length, Class 2 Torsion

Cable structure

v max.

a max.

± X°

Conductor	Conductor cable consisting of pre-leads (following DIN EN 60228).
Core insulation	Mechanically high-quality TPE mixture.
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)
Electrical information	
Nominal voltage	600/1000 V (following DIN VDE 0298-3) 1000 V (following UL)
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, FT1, VW-1
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	See data sheet for details ► www.igus.eu/CF300.UL.D

EPLAN download, configurators ► www.igus.eu/CF300.UL.D

36 month guarantee ... 1,354 types from stock ... no cutting charges



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www.hennlich.cz/lin-tech

igus



igus chainflex CF300.UL.D ple



00003XC

.02324 (TR ZU)

20 (Fire protection)

C) No. 1907/2006 (REACH)

RoHS-III)

ter jacket material of this series complies with according to standard DIN EN ISO 14644-1 dardisation

