According to ISO Class 1. The outer jacket material of this series complies with

## Class 6.6.4.2

Cleanroom

NFPA Following NFPA 79-2018, chapter 12.9

DNV-GL Type approval certificate No. TAE00003XC

EAC Certificate No. RU C-DE.ME77.B.02324 (TR ZU)

CTP Certificate No. C-DE.PB49.B.00420 (Fire protection)

REACH REACH In accordance with regulation (EC) No. 1907/2006 (REACH)

Torsion

RoHS Lead-free Following 2011/65/EC (RoHS-II/RoHS-III)

CF34.UL.25.04.D - 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	online www.igus.eu/chainfle	vlife

#### 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

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

- 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
	[mm <sup>2</sup> ]	[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

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

10 million





For extremely heavy duty applications

- TPE outer jacket
- Oil and bio-oil-resistant
- Flame-retardant

- UV-resistant
- Hydrolysis and microbe-resistant

#### **Dynamic information**

<b>-</b>		
Bend radius	e-chain <sup>®</sup> linear	mininum 7.5 x d
(LR	flexible	minimum 6 x d
	fixed	minimum 4 x d
* Temperature	e-chain <sup>®</sup> linear	-35 °C up to +90 °C
	flexible	-45 °C up to +90 °C (following DIN EN 60811-504)
	fixed	-50 °C up to +90 °C (following DIN EN 50305)
v v max.	unsupported	10 m/s

gliding a max. 100 m/s<sup>2</sup>

Travel distance Unsupported travels and up to 400 m and more for gliding applications, Class 6

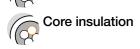
6 m/s

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

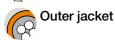
#### Cable structure



Conductor cable consisting of pre-leads (following DIN EN 60228).



Mechanically high-quality TPE mixture.



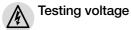
Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture,

adapted to suit the requirements in e-chains®. Colour: Signal black (similar to RAL 9004)

#### **Electrical information**

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

1000 V (following UL)



4000 V (following DIN EN 50395)

#### Properties and approvals

UV resistance High

igus chainflex CF388.UL.D

Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA Oil resistance

24568 with Plantocut 8 S-MB tested by DEA), Class 4 According to IEC 60332-1-2, FT1, VW-1

Flame retardant

Silicone-free

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

UL verified

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

service life calculator based on 2 billion test cycles per year" UL/CSA AWM See data sheet for details ▶ www.igus.eu/CF300.UL.D

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

