LEX CF300.ULD

CF300-UL-D TPE 7.5 x d

# TPE Motor cable | CF300-UL-D

- For very high mechanical load requirements
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis/microbe-resistant

#### **Dynamic Information**

Bend radius	E-Chain®	min. 7.5 x d
R	flexible	min. 6 x d
	fixed	min. 4 x d

*C Temperature	E-Chain®	-31 °F to +194 °F (-35 °C to +90 °C)
	flexible	-49 °F to +194 °F (-45 °C to +90 °C)
	fixed	-58 °F to +194 °F (-50 °C to +90 °C)

v max.	unsupported	32.81 ft/s (10 m/s)
v max.	gliding	19.69 ft/s (6 m/s)
a a may	328 1 ft/s² /10(	$1 \text{ m/s}^2$

Travel distance	Unsupported trav	vel distances	and for	gliding	applications	up 1

© <del></del> +		1312 ft (400 m) and more, Class 6
90°	Torsion	$\pm$ 90°, with 3.281 ft (1 m) cable length

#### Cable structure

Conductors	Conductor consisting of bare copper wires (according to EN
	60000)

1	00220).
Conductor insulation	Mechanically high-quality TPE mixture.

Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-
Outer jacket	resistant and highly flexible, adapted to suit the requirements in

E-Chains®. Color: Signal black (similar to RAL 9004)

#### **Electrical Information**

40	Nominal voltage	1000 V
70		

Test voltage 400	OV (following DIN EN 50396)
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#### Properties and approvals

UV UV resistance

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Oil resistance	Oil resistant (following DIN EN 60811-404), bio-oil resistant (following
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$\overline{}$	Oli lesistarice	On resistant (10110Wing Diriv Eri 000 i 1-404), Dio-on resistant (10110Wing
ıø		VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
	Flame resistance	According to IEC 60332-1-2, CEI 20-35, FT1, WW-1

Silicone-free	Free from silicone which can affect paint adhesion (following PV
	3.10.7 – status 1992)

	0.10.7 - Status 1992)
CSA	Style 10492 and 21218, 1000 V, 80 °C

NFPA 79	Complies to NEPA 79-2015 chapter 12.9



## Class 6.6.4.2

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

Torsion

MACHINE	
FHI EAC	Certified according to no. TC RU C-DE.ME77.B.01255

CTP CTP	Certified according to no. C-DE.PB49.B.00420

CEI	Following CEI 20-35

	Lead-free	Following 2011/65/EC (RoHS-II)
RoHS-	2000 1100	1 0110 Willing 20 1 17 007 20 (1 101 10 11)

Cleanroom	According to ISO Class 1. Outer jacket material complies with
Room	CF34-UL-25-04-D, tested by IPA according to standard 14644-1
DESINA	According to VDW_DESINA standardisation

DESINA		
(	CE	Following 2014/35/EC

#### Guaranteed lifetime according to guarantee conditions (Page 22-25)

Cycles*					5 million	7.5 million	10 million
Temperature,	v max. [ft/s] a max.			Travel distance	R min.	R min.	R min.
from/to [°F]	unsupported	gliding	[ft/s <sup>2</sup> ]	[ft]	[factor x d]	[factor x d]	[factor x d]
-31 / -13					10	11	12
-13 / +176	32.81	19.69	328.10	≤ 1,312	7.5	8.5	9.5
+176 / +194					10	11	12

<sup>\*</sup> Higher number of cycles possible - please ask for your individual calculation.

### Typical application areas

- For very high mechanical load requirements
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and for gliding applications up to 1312 ft (400 m) and more
- Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling, Clean room, semiconductor insertion, outdoor cranes, low temperature applications

Part No.	art No. AWG		Outer diameter max.		Copper index		Weight	
		[mm²]	in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF300-UL-40-01-D	12	1 x 4.0	0.26	6.5	26.2	39	41.0	61
CF300-UL-60-01-D	10	1 x 6.0	0.28	7.0	39.0	58	55.1	82
CF300-UL-100-01-D	8	1 x 10.0	0.31	8.0	64.5	96	82.7	123
CF300-UL-160-01-D	6	1 x 16.0	0.37	9.5	103.5	154	127.0	189
CF300-UL-250-01-D	4	1 x 25.0	0.43	11.0	161.3	240	192.2	286
CF300-UL-350-01-D	2	1 x 35.0	0.49	12.5	225.8	336	258.0	384
CF300-UL-500-01-D	1	1 x 50.0	0.57	14.5	322.5	480	356.8	531
CF300-UL-700-01-D	2/0	1 x 70.0	0.65	16.5	467.7	696	508.7	757
CF300-UL-950-01-D	3/0	1 x 95.0	0.79	20.0	616.2	917	687.4	1023
CF300-UL-1200-01-D	4/0	1 x 120.0	0.85	21.5	779.5	1160	854.1	1271
CF300-UL-1500-01-D	300	1 x 150.0	0.93	23.5	964.3	1435	1041.6	1550
CF300-UL-1850-01-D	350	1 x 185.0	1.04	26.5	1193.4	1776	1353.3	2014

Note: The mentioned outer diameters are maximum values. G = with green-yellow earth core x = without earth core

















