Motor cable | TPE | chainflex® CFPE

- For extremely heavy duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- Flame retardant
- UV-resistant
- Hydrolysis and microbe-resistant

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Bend radius	e-chain® linear	minimum 7.5 x d		
(CR	flexible	minimum 6 x d		
	fixed	minimum 4 x d		
Temperature	e-chain® linear	-35 °C to +90 °C		
((n 1-1-	45.00 +- 00.00 %		

flexible	-45 °C to +90 °C (following DIN EN 60811-504)
fixed	-50 °C to +90 °C (following DIN EN 50305)

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

Travel distance	Unsupported travel distances and up to 400 m and more for gliding applica-
(September 1)	tions Class 6

Cable structure

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



Core identification	Green-yellow.	
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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

Core insulation

Outer jacket

Nominal voltage	600/1000 V (following DIN VDE 0298-3)
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Testing veltage	4000 V (following DINI EN E020E)
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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4		1992).
-	UL/CSA	Style 10492 and 21218, 1000 V, 80 °C

Class 6.6.4.2

NFPA NFPA

Torsion

Travel distance unsupported

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

Following NFPA 79-2012 chapter 12.9.

4 highest

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

Basic requirements

Oil resistance

GP CTP Certificate no. C-DE.PB49.B.00420 (Fire safety)

CEI Following CEI 20-35.

Lead-free Following 2011/65/EU (RoHS-II).

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

tested by IPA according to standard 14644-1.

CECE Following 2014/35/EU.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

5 million		R min. [factor x d]	
R min. [factor x d]	R min. [factor x d]		
10	11	12	
7.5	8.5	9.5	
10	11	12	
	R min. [factor x d] 10 7.5	R min. [factor x d] R min. [factor x d] 10 11 7.5 8.5	

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]
CFPE.15.01	1G1.5	4.5	15	29
CFPE.25.01	1G2.5	6.0	24	46
CFPE.40.01	1G4.0	6.5	39	63
CFPE.60.01	1G6.0	7.0	58	81
CFPE.100.01	1G10.0	8.0	96	123
CFPE.160.01	1G16.0	9.5	154	189
CFPE.250.01	1G25.0	11.5	240	284
CFPE.350.01	1G35.0	12.5	336	384
CFPE.500.01	1G50.0	14.5	480	535
CFPE.700.01	1G70.0	16.5	696	752
CFPE.950.01	1G95.0	20.0	917	1013

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



















chainflex"CFPE

