## Single core flat cable | TPE | chainflex<sup>®</sup> CFFLAT

TPE

- For heaviest duty applications
- TPE outer jacket
- Oil and bio-oil-resistant
- PVC and halogen-free
- UV-resistant
- Hydrolysis and microbe-resistant

## **Dynamic information**

ynamic mornation				
Bend radius	e-chain <sup>®</sup> linear	minimum 5 x d		
	flexible	minimum 4 x d		
	fixed	minimum 3 x d		
Contractor Temperature	e-chain® linear	-35°C up to +90°C		
$(\bigcirc$	flexible	-50°C up to +90°C (following DIN EN 60811-504)		
	fixed	-55°C up to +90°C (following DIN EN 50305)		
v max.	unsupported	10m/s		
(	gliding	6m/s		
a max.	100m/s <sup>2</sup>			
Travel distance	Unsupported travels and up to 100m for gliding applications, Class 5			
	Liebly flowible breided appealed conductor			
Conductor	Highly flexible braided special conductor.			
Core insulation	Mechanically high-quality TPE mixture.			
Couter jacket	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture,			
	adapted to suit the requirements in e-chains®.			
	Colour: Steel blue (similar to RAL 5011)			
lectrical information				
ku Nominal voltage	600/1,000V (follo	wing DIN VDE 0298-3)		

**Testing voltage** Ŕ

E

4,000V (following DIN EN 50395)

## Class 7.5.4.1

Basic requirements Travel distance Oil resistance Torsion

unsupported

Properties and approvals	
UV resistance	High
Oil resistance	Oil-resistant (following DIN EN 608 24568 with Plantocut 8 S-MB teste
Silicone-free	Free from silicone which can affect p 1992)
Halogen-free	Following DIN EN 60754
UL verified	Certificate No. B129699: "igus 3 service life calculator based on 2 b
EAC	Certificate No. RU C-DE.ME77.B.0
REACH REACH	In accordance with regulation (EC) I
Rous Lead-free	Following 2011/65/EC (RoHS-II/Ro
clean- room	According to ISO Class 1. The outer CF9.15.07 - tested by IPA accordin
CECE	Following 2014/35/EU
UK UKCA CA	In accordance with the valid regulat

## Typical application areas

- For heavy-duty applications, Class 7
- Unsupported travels and up to 100m for gliding applications, Class 5
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- No torsion, Class 1
- Indoor and outdoor applications, UV-resistant
- Storage and retrieval units for high-bay warehouses, for small installation spaces and bend radii, machining units/machine tools, quick handling, cleanroom, semiconductor insertion, low-temperature applications

Part No.	Number of cores and conductor nominal cross section	Outer dimensions	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CFFLAT.40.01	1x4.0	14.0x5.5	48	117

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



EU202(





CFFLAT TPE 5 x d

811-404), bio-oil-resistant (following VDMA ted by DEA), Class 4 paint adhesion (following PV 3.10.7 - status

36-month chainflex cable guarantee and billion test cycles per year" 00863/20

) No. 1907/2006 (REACH)

oHS-III)

er jacket material of this series complies with ng to standard DIN EN ISO 14644-1

ations of the United Kingdom (as at 08/2021)













