## Bus cable for hanging applications | PUR chainflex<sup>®</sup> CFSPECIAL.182

- For high tensile loads
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Flame-retardant
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant

## **Dynamic information**

Dynamic information				
Bend radius	e-chain <sup>®</sup> linear	minimum 10 x d		
	flexible	minimum 8 x d		
	fixed	minimum 5 x d		
🛌 Temperature	e-chain <sup>®</sup> linear	-25°C up to +80°C		
	flexible	-40°C up to +80°C (following DIN EN 60811-504)		
	fixed	-50°C up to +80°C (following DIN EN 50305)		
v max.	unsupported	10m/s		
	gliding	6m/s		
a max.	100m/s <sup>2</sup>			
Travel distance	For hanging applications up to 50 m			
Cable structure				
Conductor	Stranded conductor in especially bending-resistant version consisting of bare			
	copper wires (following DIN EN 60228).			
Core insulation	According to bus specification.			
Core structure	According to bus specification.			
Core identification	According to bus specification.			
Inner jacket	TPE mixture adapted to suit the requirements in e-chains <sup>®</sup> .			
Overall shield	Bending-resistant braiding made of tinned copper wires.			
	Coverage linear approx. 70%, optical approx. 90%			
Outer jacket	<b>1. Outer jacket:</b> PUR mixture adapted to suit the requirements in e-chains <sup>®</sup>			
	Reinforcement: High tensile strength aramid braid embedded in the outer jacket.			
	2. Outer jacket: Low-adhesion, halogen-free PUR mixture, highly abrasion and			
	bending-resistant, adapted to suit the requirements in hanging applica			
	(following DIN EN 50363-10-2).			
		Colour: jet black (similar to RAL 9005)		
Electrical information				
L Nominal voltage	50V			
<b>4</b> U	300V (following U	JL)		
A Testing voltage	500V			

## **Properties and approvals**

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UV resistance	High
Oil resistance	Oil-resistant (in accordance with I
Offshore	MUD-resistant following NEK 606
Flame-retardant	According to IEC 60332-1-2, Cat
Silicone-free	Free from silicone which can affec 1992)
Halogen-free	Following DIN EN 60754
UL verified	Certificate No. B129699: "igus service life calculator based on 2
BLus UL/CSA AWM	See data sheet for details > www
	Following NFPA 79-2018, chapte
	Certificate No. RU C-DE.ME77.B
REACH REACH	In accordance with regulation (EC
Rous Lead-free	Following 2011/65/EC (RoHS-II/F
CECE	Following 2014/35/EU
UK UKCA CA	In accordance with the valid regul
Typical application areas	
<ul> <li>For high tensile loads</li> </ul>	
<ul> <li>For hanging applications upplications</li> </ul>	
Almost unlimited resistance	
<ul> <li>Storage and retrieval units</li> </ul>	s, hanging control units, litts
D. I.N.	Number of cores and condu

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CFSPECIAL.182.045	(4x(2x0.15))C	9.5	42	136
CFSPECIAL.182.060 11) 13)	at → (4x0.38)C	8.5	37	125

<sup>11)</sup> Phase-out model

<sup>13)</sup> Colour outer jacket: Yellow-green (RAL 6018)

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

Part No. Ethernet/CAT5e/PoE	Characteristic wave impedance approx. [Ω]	Core group
CFSPECIAL.182.045	100	(4x(2x0.15))C
Profinet		
CFSPECIAL.182.060	100	(4x0.38)C

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CFSP.182 PUR 10 x d

DIN EN 50363-10-2)

)6 - status 2016

ble Flame, VW-1, FT1, FT2 / Horizontal Flame

ct paint adhesion (following PV 3.10.7 – status

36-month chainflex cable guarantee and 2 billion test cycles per year" w.igus.eu/CFSPECIAK182

er 12.9

3.00295/19

C) No. 1907/2006 (REACH)

RoHS-III)

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

Colour code

white-blue/blue, white-orange/orange, white-green/green, white-brown/brown

white, orange, blue, yellow (star-quad)

