

Bus cable | PUR | chainflex® CFSPECIAL.182

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

Dynamic information

	Bend radius	e-chain® linear	minimum 10 x d
		flexible	minimum 8 x d
		fixed	minimum 5 x d
	Temperature	e-chain® linear	-25 °C to +80 °C
		flexible	-40 °C to +80 °C (following DIN EN 60811-504)
		fixed	-50 °C to +80 °C (following DIN EN 50305)
	v max.	unsupported	10 m/s
		gliding	6 m/s
	a max.		100 m/s ²
	Travel distance	For hanging applications up to 50 m	

Cable structure

	Conductor	Stranded conductor in especially bending-resistant design 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	1. Inner jacket: TPE mixture, adapted to suit the requirements in e-chains®. 2. Inner jacket: PUR mixture, adapted to suit the requirements in e-chains®.
	Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 70 % inear, approx. 90 % optical
	Reinforcement	High tensile-strength aramide braid embedded in the outer jacket.
	Outer jacket	Low-adhesion PUR mixture, highly abrasion- and bending-resistant, adapted to suit the requirements in hanging applications (following DIN EN 50363-10-2). Colour: Jet black (similar to RAL 9005)

Electrical information

	Nominal voltage	50 V
	Testing voltage	500 V

Properties and approvals

	UV resistance	High.
	Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3.
	Offshore	MUD-resistant following NEK 606 - status 2009.
	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 1992).
	Halogen-free	Following DIN EN 60754.
	UL/CSA	CFSPECIAL.182.001: Style 1589 and 20236, 30 V, 80 °C CFSPECIAL.182.045: Style 10138 and 20233, 300 V, 80 °C
	NFPA	Following NFPA 79-2012 chapter 12.9.
	Lead-free	Following 2011/65/EU (RoHS-II).
	CE	Following 2014/35/EU.

Typical mechanical application areas

- For increased tensile load
- Almost unlimited resistance to oil
- For hanging applications up to 50 m
- Storage and retrieval units for high-bay warehouses, hanging control units, elevators

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
Profibus				
CFSPECIAL.182.001 ¹¹⁾	(2x0.25)C	10.0	34	141
Ethernet/CAT5				
CFSPECIAL.182.045	(4x(2x0.15))C	10.0	44	140

¹¹⁾ Phase-out model
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.	Core group	Colour code
Profibus		
CFSPECIAL.182.001 ¹¹⁾	(2x0.25)C	red, green
Ethernet/CAT5		
CFSPECIAL.182.045	(4x(2x0.15))C	white-green/green, white-orange/orange, white-blue/blue, white-brown/brown

¹¹⁾ Phase-out model
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



Example image

