



DATA SHEET	2170306/2170306
UNITRONIC® BUS ASi FD	valid from : 19.01.2010

Application

UNITRONIC® BUS AS-INTERFACE PUR is a field-bus cable 91Y11Y-FL 2 x 1,5 with 2 cores for **AS-INTERFACE** (Aktuator- Sensor Interface). Networking system for the lower field area.

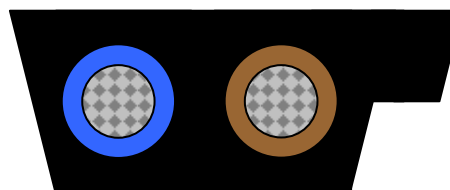
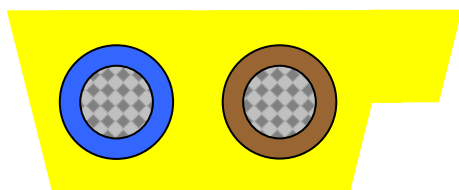
The data transmission for AS-Interface telegrams and power supply for AS-I slaves, master, repeater, extender and sensors is done via this unscreened, geometrically-coded two-core flat cable. Contacting the conductors without stripping the insulation by insulation-displacement-system of AS-I modules.

The cable is intended for fixed and flexible installations. It is applicable for constantly moving employment in power chain systems.

The cable ist halogen free and flame retardant.

Article No.	Type		Outer Diameter
2170306	UNITRONIC BUS ASi FD	yellow	10x4mm
2170307	UNITRONIC BUS ASi FD	black	10x4mm

Design



Conductor	Tinned copper wire, 1.5 mm ² , finest wire acc. to VDE 0295 class 6	
Insulation	Thermoplastic elastomer (TPE) Wall thickness: 0.5mm, core diameter: 2,5mm Cores coloured brown (+) and blue (-)	
Lay	Two cores flat parallel. The brown core is on the side of the „nose“.	
Sheath	PUR, halogen free, few adhesion and flame retardant.	
	Colour	yellow , (similar RAL 1012) art. no. 2170306 black , (similar RAL 9005) art. no. 2170307

Electrical properties at 20 °C

Conductor resistance acc. to VDE 0295	max. Ω/km	13,7
Capacitance	max. nF/km	80
Inductance	mH/km	0.5...0,75
Characteristic impedance at 167 kHz	Ω	70 ...140
Specific insulation resistance	MΩxkm	min. 1
Operating voltage	V	~ 30
Operating peak voltage (not for power purpose)	V	300
Test voltage AC	kV	2

originator: P. Lintfert / PNM approved: J. Volberg / PN	Document: DB2170306EN.doc	page 1 of 2
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Mechanical and thermal properties

Permissible pulling force		max. N	150
Temperature range	fixed installation	°C	- 40 bis + 85
	moved w.o. forcible control	°C	- 30 bis + 85
	moved with forcible control	°C	- 30 bis + 70
Minimum bending radius	fixed installation	mm	12
	moved w.o. forcible control	mm	24
	moved with forcible control	mm	60
Flame propagation		acc. IEC 60332-1-2	
Oil resistant		acc. IEC 60811-2-1 (7 days at 90°C)	
Halogen free		acc. IEC 60754-1	

RoHS directive Cable is conform to RoHS directive (2002/95/EG)
WEEE directive Cable is conform to WEEE directive (2002/96/EG)