



DATA SHEET

2170401 / ...402

UNITRONIC® BUS AS-INTERFACE PUR MARINEvalid from :
19.02.2010

Application

UNITRONIC® BUS AS-INTERFACE PUR MARINE is a fieldbus 9Y11Y cable with 2 cores for **AS-INTERFACE (Aktuator- Sensor Interface)**. Networking system for the lower field area. The cable is halogen free and flame retardant.

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 installation in interiors.

Approvals

VDE-Reg. No. 9971

Approved for Marine and Offshore Application:

Germanischer Lloyd: Certificate No. 99160-97 HH

Lloyds Register of Shipping: Certificate No. 97/20069 (E3)

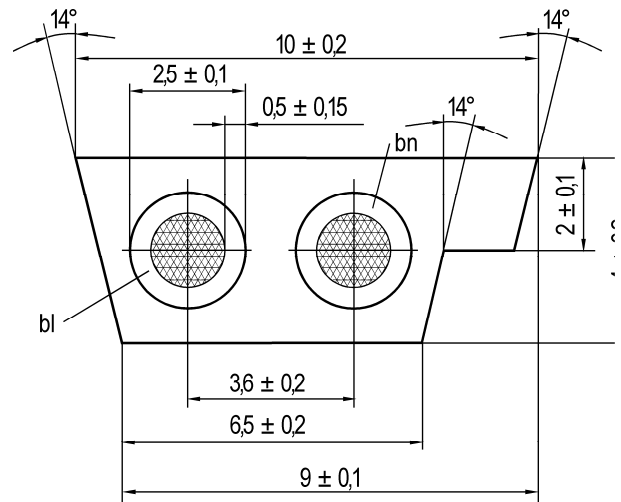
ABS Europe LTD: Certificate No. 02-HG338429/1-PDA

Bureau Veritas: Certificate No. 07162/BOBV

Det Norske Veritas: Certificate No. E-8004

Design

Conductor	copper E-Cu F21-V2 according to DIN 40500 part 5, finest wires according to VDE 0295 class 6	
Insulation	thermoplastic polypropylene copolymer (FRNC), wall thickness 0.5mm, core diameter 2.5mm	
Coding	cores coloured brown and blue	
Lay	two cores flat parallel. The brown core is on the side of the „nose“	
Sheath	PUR, halogen free, flame retardant	
	Sheath colour: Yellow RAL 1012	art. no. 2170401
	Black RAL 9005	art. no. 2170402



LAPPKABEL STUTTGART **UNITRONIC® BUS AS-I (PUR) MARINE** FLI-9Y11Y 2 x 1,5 VZN FRNC
OIL RESISTANT LEONI L VDE-REG. NR. 9971 ROHS ART. 217040x

elaborated by:
PNM P. Lintfert

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Electrical properties at 20° C

Conductor resistance		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 resistant		Ωxcm	min. 10 ¹²
Operating Voltage		V	~ 30
Operating Peak Voltage (not for power purposes)		V	300
Test voltage AC		kV	2

Mechanical and thermal characteristics

Permissible pulling force		max. N	50
Bending behaviour to DIN VDE 0603, test H		min double-cycles	30 000
Temperature range	Flexing	°C	- 30 to + 85
	Static	°C	- 40 to + 85
Minimum bending radius to VDE 0298 part 300	flexible	mm	24
	static	mm	12

Flame propagation

flame retardant according IEC 60332-1-2

RoHS directive

This cable confirms to RoHS directive (2002/95/EG)

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