

2170353

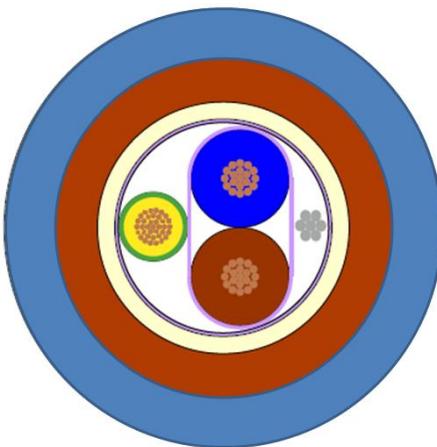
DATA SHEETvalid from:
01.02.2019**UNITRONIC® BUS FF 3 ARM (BU)**
1X2X1.1 + 1.1**LAPP****Application**

FOUNDATION Fieldbus cable for use in Process Automation - UL-verified

Used in intrinsically safe areas, especially in the field of Process Automation. UL/CSA-approval.

This cable has a special armouring which provides a safe solution taking mechanical stress etc. into account.

Temperature range from -40 °C bis +80°C

Design

Certification

cUL CMG - certified 75°C or CL2 FT4, Sun Res, Oil Res

Conductor

Stranded bare copper wire 41 X 0.16

Ø approx. 1,1 mm

Insulation

LIY-wire

Insulation of Polyvinylchloride (PVC)

Ø 2,0 mm (nominal value)

power cores:

Insulation of irradiated Polyethylene (XLPE)

Ø 2,85 mm (nominal value)

Core identification code

LIY-wire

green/yellow

power cores:

blue and brown

Stranding

screened power pair (aluminium laminated foil) twisted together with LIY-wire to the core with

aluminium laminated foil and drain wire

Stranded tinned copper drain wire 0.5 mm²

Inner sheath

PVC,

outer Ø: 7,0 mm ± 0,3 mm

Braid

protection tube/covering of Copper tape (thickness 0.25 mm) longitudinal welded, annular corrugated

outer Ø: approx. 9,7 mm

Outer sheath

PVC, yellow,

outer Ø: 12,3 mm ± 0,3 mm

AbN
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01.02.2019**UNITRONIC® BUS FF 3 ARM (BU)**
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Conductor resistance	max. 24 Ω/km
Specific volume resistivity	20 MΩ*km
Inductance	0.48 mH/km (1 kHz)
Capacitive coupling	conductor/conductor nom. 65 nF/km (1 kHz)
	conductor/screen nom. 135 nF/km (1 kHz)
Characteristic impedance	100 Ω (±20) (31.25 kHz)
Attenuation	nom. < 3,4 dB/km (39 kHz)
Peak operating voltage	300 V (not for power applications)
Test voltage	conductor/conductor 1500 V conductor/screen 1500 V

Mechanical and thermal properties

Minimum bending radius	fixed use 5 x cable Ø repeated use 10 x cable Ø
Temperature range	- 25° C up to +80° C
Flammability	flame retardant acc. to UL1685 / CSA FT4 and IEC60332-3-24
UV resistance	Sunlight resistance acc. to UL1581 Sec. 1200
Oil resistance	nach UL1581 Sec.480 (60°)
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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