
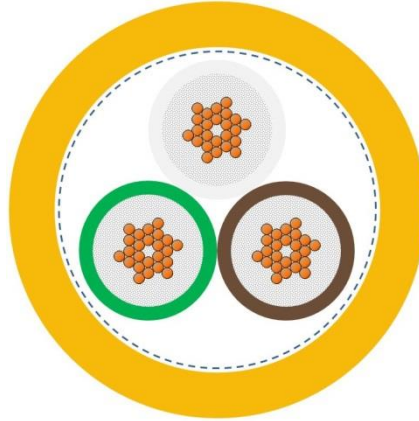


2170295	DATA SHEET	
valid from: 01.01.2019	UNITRONIC® BUS SAFETY 3x0,75	

Application

Fieldbus cable with a nominal impedance of 120 Ω. The cable is designed for limited flexible applications and fixed installation for inner and outdoor areas.

Design




Conductor	stranded bare copper, 24 x 0.2 mm, ca. 0.75 mm ²
Insulation	foam-skin PE or PP, core Ø ca. 2.7 mm
Core identification code	white, brown, green
Stranding	3 cores stranded together plastic tape
Screen	braid of tinned copper wires coverage ca. 85 % ± 5 %
Outer sheath	halogen free, flame retardant compound, yellow (similar to RAL 1003), wall thickness ca. 0.75 mm, outer Ø: ca. 7.6 mm

Electrical properties at 20°C

Conductor resistance	max. 26 Ω/km
Insulation resistance	min. 5 GΩxkm
Mutual capacitance	800 Hz: 42 nF/km
Characteristic impedance	>1 MHz: 120 Ω ± 15 Ω
Attenuation	100 kHz: nom. 0,3 dB/100 m 250 kHz: nom. 0,5 dB/100 m 500 kHz: nom. 0,7 dB/100 m 1 MHz: nom. 1,1 dB/100 m 10 MHz: nom. 4,2 dB/100 m
Velocity of propagation	nom. 75%
Signal transit time	16 MHz: 4,5 ns/m ± 0,2 ns/m
Peak operating voltage	125 V (not for power purposes)
Test voltage	conductor/conductor 3000 V conductor/screen 1500 V

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Mechanical and thermal properties

Minimum bending radius	7.5 x outer ϕ
Temperature range	fixed -30 °C up to +80 °C
Flammability	flame retardant acc. to IEC 60332-1-2
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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