DATA SHEET

valid from: 01.02.2019

2170360

UNITRONIC® BUS CC 3X1XAWG20/7

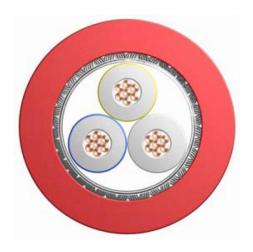


Application

CC-Link bus cable for fixed installation - UL-verified

CC-Link to provide efficient, integrated factory and process automation. UV-resistant, flame retardant. Temperature range from -40°C up to +70°C

Design



Certification cUL CM - certified 75°C or CL2 FT4, Sun Res
Conductor Stranded bare copper wire 7 X 0.32 (AWG 20/7)

Ø approx. 0,96 mm

Insulation Insulation of foamed Polyethylene (PE) with skin

Ø approx. 2,2 mm

Core identification code white, blue and yellow

Stranding 3 wires twisted together with plastic tape wrapping
Screen aluminium laminated foil with braid of tinned copper wires,

coverage approx. 80 %

and drain wire

Stranded tinned copper drain wire 0.38 mm² (AWG 22/19)

Outer sheath PVC, red,

outer Ø: 7,7 mm ± 0,3 mm

Electrical properties at 20°C

Conductor resistance max. 37.8 Ω /km Specific volume resistivity 10 $G\Omega$ *km

Capacitive coupling nom. 60 nF/km (1 kHz) Characteristic impedance 110 Ω (±15) (1 kHz) Attenuation nom. < 16 dB/km (1 MHz)

nom. < 35 dB/km (5 MHz)

Peak operating voltage 300 V (not for power applications)
Test voltage conductor/conductor 2000 V

conductor/screen 2000 V

Mechanical and thermal properties

Minimum bending radius fixed use 5 x cable \emptyset repeated use 8 x cable \emptyset

- 40° C up to +70° C

Flammability flame retardant acc. to UL1685 / CSA FT4
UV resistance Sunlight resistance acc. to UL1581 Sec. 1200

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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Temperature range