


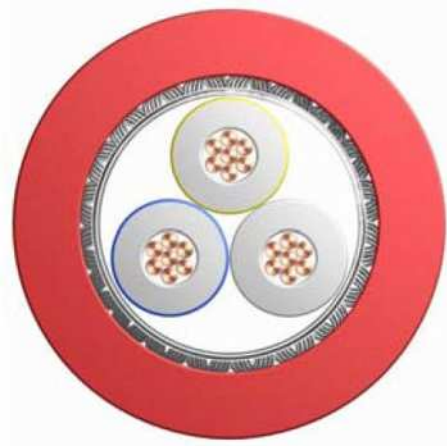
2170360	DATA SHEET	
valid from: 01.02.2019	UNITRONIC® BUS CC 3X1XAWG20/7	

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 mm ² (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 GΩ*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 Ø repeated use 8 x cable Ø
Temperature range	- 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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