


2170240	DATA SHEET	
valid from: 21.06.2021	UNITRONIC® BUS EIB 2x2x0.8	

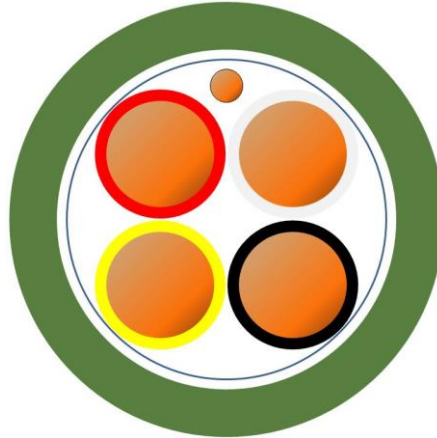
Application

Field of use: Installation cable based on type J-Y(ST)Y acc. to VDE 0815 for installation in/on plaster, in damp and wet rooms

Characteristics: flame retardant

Applications: designed for data transmission in the building management, in particular as bus cable for the European Installation Bus EIB as well as MSR cable in high-voltage systems

Approvals: EN 13501-6 and EN 50575 Classification of fire behaviour



Design

Certification: EN 13501-6 and EN 50575 Classification of fire behaviour

Conductor: solid bare copper
0.8 mm diameter

Insulation: PVC
core diameter: nom. 1.6 mm

Core identification code: pair 1: red/black, pair 2: white/yellow,

Stranding: 4 cores twisted to star quad
on top:
plastic tape (overlapping)

Screen: plastic laminated aluminum foil (AL surface inside, overlapping)
with bare copper drain wire
(0.4 mm diameter)

Braid:

Outer sheath: PVC
green, similar RAL 6018
outer diameter: nom. 6.1

Electrical properties at 20 °C

Loop resistance: max. 73.2 Ω /km

Insulation resistance: min. 100 M Ω x km

Mutual capacitance: 800 Hz: 100 nF/km

Inductance: 800 Hz: 0.65 mH/km

Capacitive coupling: 800 Hz: 300 pF/100 m


Characteristic impedance: 100 kHz: nom. 85 Ω ($\pm 10 \Omega$)
1 MHz: nom. 75 Ω ($\pm 10 \Omega$)

Attenuation: 10 kHz: nom. 3.5 dB/km
100 kHz: nom. 8 dB/km

Maximum operating voltage: 300 V (not for power applications)

Test voltage: core/core: 1000 V
core/screen: 1000 V
cable in water bath (5 min): 4000 V

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Mechanical and thermal properties

Minimum bending radius	fixed installation:	10 x outer diameter
Temperature range	fixed installation:	-30 °C up to +70 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2	
General requirements	<p>These cables conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances) and the LV-Directive 2014/35/EU (Low voltage Directive). This cable is classified in accordance with the EU-Regulation no. 305/2011 (CPR).</p>	
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).	

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