DATA SHEET

valid from: 21.06.2021

2170240

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

PVC Insulation

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. $100 \text{ M}\Omega \text{ x km}$

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 (±10 Ω) 1 MHz: nom. 75 Ω (±10 Ω) 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 $^{\circ}$ C up to +70 $^{\circ}$ C

Flammability flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

General requirements

These cables are 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).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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