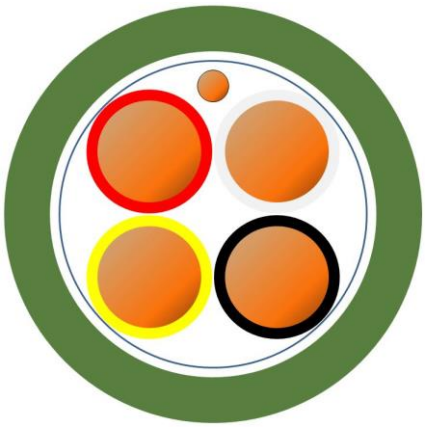
2170241	DATA SHEET	LAPP
valid from: 01.01.2019	UNITRONIC® BUS EIB-H	

Application

Halogen free, screened installation cable based on type J-Y(ST)Y in acc. to VDE 0815 for data transmission in the building management, in particular as bus cable for the European Installation Bus “EIB” (use for decentralised control of lighting, heating, air-conditioning, ventilation, energy management, blind, time management, locking systems etc.). The EIB bus cable can be laid in, on and under plaster, in pipes and cable ducts, in dry, damp and wet rooms. They may only be installed outdoors with UV-protection and in observation of the temperature range. UNITRONIC® BUS EIB cables have been tested with a test voltage of 4 kV.
The cables may be laid respectively be touched without restrictions next to power cables.

Design



Conductor	Solid, bare copper wire, Ø 0.8 mm diameter
Insulation	halogen free polymer compound
Core identification code	pair 1: red and black, pair 2: white and yellow
Stranding	4 insulated conductors twisted (star-quad formation) plastic foil
Screen	one layer plastics-coated aluminium foil, wrap metal side inside with Ø 0.4 mm bare copper drain wire
Outer sheath	halogen free, flame retardant polymer compound, green, similar to RAL 6017, ⌀ max. 6.6 mm

Electrical properties at 20°C

Conductor resistance	max. 73,2 Ω/km
Insulation resistance	min. 100 MΩ x km
Mutual capacitance	nom. nF/km 100
Inductance	0,65 mH/km
Capacitive coupling	max. 300 pF/100 m
Characteristic impedance	at 100 kHz nom. Ω 85 at 1MHz nom. Ω 75
Attenuation	at 10 kHz nom. dB/km 3,5 at 100 kHz nom. dB/km 8
Peak operating voltage	300 V (not for power applications)
Test voltage	conductor/conductor 1000 V conductor/screen 1000 V in waterbath (5 min.) 4000 V

Mechanical and thermal properties

Minimum bending radius	fixed use: 10 x cable Ø
Temperature range	fixed use -30° C to +70° 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).