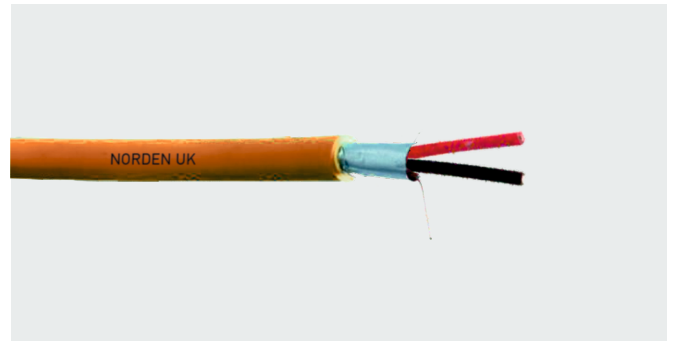


EIB BUS CABLE 1 PAIR 18 AWG SHIELDED



EIB BUS SYSTEM cables are primarily designed for communication in building management system with the application scope of controlling lighting, air conditioning, blinds, heating and time management. The cables are not suitable for power transmission and direct burial.



CABLE CONSTRUCTION

Conductor

Stranded Tinned Copper

Shielding

Aluminium / Polyester

Outer Jacket

LSZH

Insulation

Polyolefin

Drain Wire

Tinned Copper Wire

Jacket Color

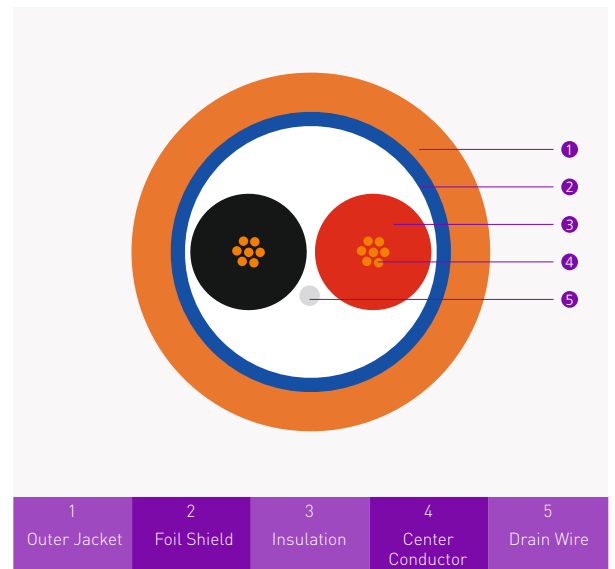
Orange/ Green/White

PHYSICAL CHARACTERISTICS

Characteristic	Value
No. of Pair	1
No. of Conductor	2
Conductor Size	18 AWG (7x26AWG)
Insulation Thickness	0.65 mm
Insulation Diameter	2.55 ± 0.05 mm
Drain Wire Size	20 AWG (7x28AWG)
Jacket Thickness	1.1 mm
Jacket Diameter	7.5 mm
Min. Bending Radius	100 mm
Operating Temperature	-20°C to +70 °C

ELECTRICAL CHARACTERISTICS

Characteristic	Unit	Value
Nom. Conductor DCR @ 20°C	Ω/km	20.5
Max. operating voltage	V rms	300
Max. capacitance between conductors of a pair @ 1kHz	nF/km	80
Max. capacitance cond. to other cond. and shield @ 1 kHz	nF/km	155
Maximum conductor DC-resistance @ 20°C	Ω/km	20.5
Maximum shield DC-resistance @ 20°C	Ω/km	26.0
Nom. velocity of propagation	%	66
Impedance @ 31.25 kHz	Ω	100 ± 20
Short or open of the loop	KV	1KV 1 min
Shield	KV	2.5KV 1 min



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MECHANICAL CHARACTERISTICS

Characteristic	Value
Test Material	LSZH
Before Tensile Strength (Mpa)	9
Aging Elongation (%)	150
Aging Condition (oC x hrs)	100°C 168h
After Tensile Strength (Mpa)	6.3
Aging Elongation (%)	105
Cold Bend (-20±°C x 4 hrs)	Unbreakable

INSULATION COLOUR CODE

Individual Core	Colour
Core 1	Red
Core 2	Black

ORDERING INFORMATION

Part Number	Description
81-1501182X	EIB BUS Cable 1 Pair 18AWG Shielded LSZH