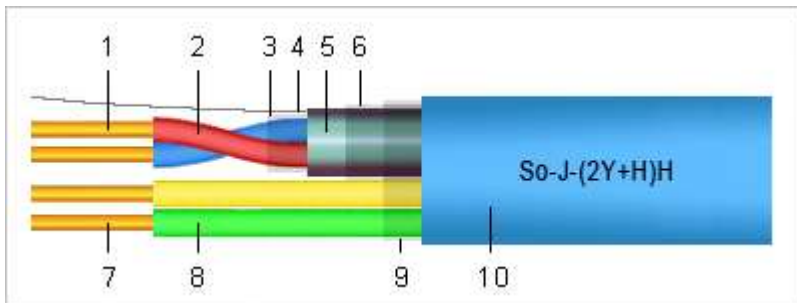


# DATASHEET

## So-J-(2Y+H)H PiMF BU Bus cable



### Structure

- > 1 Solid bare copper conductor ( $\varnothing$  nom. 0,8 mm for signal transmission)
- > 2 Halogen-free polyolefin (PE) core insulation ( $\varnothing$  ca. 1,4 mm red and blue)  
Cores twisted to a pair (Twisting direction Z axis)
- > 3 Polyester plastic (PET) foil wrapping over the cores
- > 4 Tinned solid copper drain wire ( $\varnothing$  ca. 0,5 mm)
- > 5 Polyester plastic-coated aluminium (AL/PET) foil electrostatic screening
- > 6 Polyester plastic (PET) foil wrapping over the inside
- > 7 Solid bare copper conductor (Cross-section nom. 1,0 mm<sup>2</sup> for power supply)
- > 8 Halogen-free polyolefin (FRNC) core insulation (Yellow and green)
- > 9 Polyester plastic (PET) foil wrapping over the inside
- > 10 Halogen-free polyolefin (FRNC) outer sheath, blue colour RAL 5012/5015 (BU) with imprint:  
"So-J-(2Y+H)H PiMF 1x(2x0,8)+2x1,0 mm<sup>2</sup> BU Bus cable, Lot number, Meter number"

### Dimensions

Conductor structure nominal	Outer $\varnothing$ nominal [mm]	Conductor resistance at 20 °C [ $\Omega$ /100m]	CU weight nominal [kg/km]	Weight approx. [kg/km]
1x2x0,8 mm + 2x1,0 mm <sup>2</sup>	7,2	<39,0 + <21,0	31,0	73

### Application


Bus cable is used in the intelligent building system technologies, industrial networks, information processing systems, measurement, regulation and control applications. Suitable for the analogue or digital transmission of data and signals.

This cable is preferably used for indoor installation, but also in the open air for fixed installation on outer walls of buildings - provided it is protected against direct exposure to the sun.

# DATASHEET

## So-J-(2Y+H)H PiMF BU Bus cable

### Properties

- > Solid bare copper conductors, AL/PET foil screened signal transmission pair (*PiMF*) with polyethylene (*PE*) core insulation, flame retardant non-corrosive (*FRNC*) polyolefin insulated power supply cores, *FRNC* polyolefin outer sheathed cable.
- > Cable is in accordance with standards:  
EN 50575:2014 reaction to fire;  
EN 13501-6 fire classification.
- > The special characteristic of this bus cable is a data pair and a power supply pair are integrated in one cable.
- > AL/PET foil electrostatic screening protects the transmission circuits against external electrical interferences. The drain wire is in contact with the inner aluminum surface of the foil.
- > The bus cable is REACH compliant as well as meeting the requirements of other legislation such as the RoHS Directive. The materials used in this cable are cadmium-free and contain no silicone and do not represent health hazards and minimize the environmental impact.
- >  Product meets all the legal requirements for CE marking and can be sold throughout the European Economic Area (*EEA*).

### Technical data

Peak working voltage:	48 V
Test voltage:	800 V eff. ( <i>Core/core, core/screening, AC 50 Hz</i> )
Temperature range:	Fixed installation -30 °C to +70 °C
Insulation resistance:	Min. 10,000 M $\Omega$ x km ( <i>Data pair</i> ) Min. 100 M $\Omega$ x km ( <i>Power supply pair</i> )
Impedance:	100 $\Omega$ $\pm$ 15% ( <i>Data pair</i> )
Mutual capacitance:	At 800 Hz max. 100 nF / km
Minimum bending radius:	Fixed installation 10 x cable $\emptyset$

### Packaging

In coil or drum.