



## PROFIBUS FRNC, halogen-free

Halogen-free Standard PROFIBUS cable for Sinec-L2-DP and FIP (Factory Instrumentation Protocol)

### Construction

- Conductor: bare Cu wire
- Core insulation: expanded PE, halogen-free
- Core colours: red and green
- Overall screening with composite aluminium foil, metal layer on the outside, and tinned copper braided screening
- Outer sheath: halogen-free compound, FRNC, flame retardant
- Sheath colour: RAL 4001 red lilac

### Technical Data

- Peak operating voltage: max. 100 V
- Test voltage: 3600 V/3 sec.
- Conductor loop resistance: max. 110 V Ohm/km
- Insulation resistance:  $\geq 16000 \text{ MOhm} \times \text{km}$
- Mutual capacitance at 1 kHz: approx. 28,0 nF/km
- Bending radius: min. 150 mm
- Temperature range: stationary -25°C to +60°C
- Wave impedance: nominal value 150 Ohm
  - 3 to 20 MHz  $150 \pm 15 \text{ Ohm}$
  - 38.4 kHz  $185 \pm 18.5 \text{ Ohm}$
  - 9.6 kHz  $270 \pm 27 \text{ Ohm}$
- Attenuation: at 16 MHz  $< 42 \text{ dB/km}$ 
  - at 4 MHz  $< 22 \text{ dB/km}$
  - at 38.4 kHz  $< 4.0 \text{ dB/km}$
  - at 9.6 kHz  $< 2.5 \text{ dB/km}$

### Properties

- Flame retardant to IEC 60332-3
- Halogen-free to IEC 60754-1
- Corrosiveness of combustion gas to IEC 60754-2

### Available special types

- UL-listed type
- with integral power supply wires 3 x 1 x 0.75 mm<sup>2</sup>

Ø mm <sup>2</sup>	Cu-Weight kg/km	Outer-Ø mm	Total-Weight kg/km	Article number
1 x 2 x 0.64	26.3	8.0	64.0	4436126444

- Further formats available on request
- All data and products subject to change