

PROFIBUS FRNC SK (fast connect), 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
- Cores twisted in layers, with optimal lay lengths
- Halogen-free intersheath
- 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 Datas

- Peak operating voltage: max. 100V
- 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. 28,5 nF/km
- Bending radius: single bending 15 x cable diameter
repeated bending 20 x cable diameter
- Temperature range: -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 dB/km
 - at 4 MHz < 22 dB/km
 - at 38.4 kHz < 4.0 dB/km
 - at 9.6 kHz < 2.5 dB/km

Properties

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

Ø mm²	Cu-Weight kg/km	Outer-Ø mm	Total-Weight kg/km	Article number
1 x 2 x 0.64	26.3	8.0	75.0	4438126444

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