



PROFIBUS Standard

for Sinec-L2-DP and FIP (Factory Instrumentation Protocol)

Construction

- Conductor: bare Cu wire
- Core insulation: expanded PE
- Core colours: red and green
- Cores twisted in layers, with optimal lay lengths
- Overall screening with composite aluminium foil, metal layer on the outside, and tinned copper braided screening
- Outer sheath: special PVC, flame retardant
- Sheath colour: RAL 4001 red lilac

Technical Data

- Peak operating voltage: max. 100V
- Test voltage: 3600 V/3 sec.
- Conductor loop resistance: max. 110 V Ohm/km
- Insulation resistance: ≥ 16000 MOhm x km
- Mutual capacitance at 1 kHz: 28,0 nF/km
- Bending radius: min. 150 mm
- Temperature range: -40°C to +60°C
- Wave impedance: nominal value 150 Ohm
 - 3 to 20 MHz 150 $\pm$ 15 Ohm
 - 38.4 kHz 185 $\pm$ 18.5 Ohm
 - 9.6 kHz 270 $\pm$ 27 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 60332-1

Available special types

- UL-listed type
- with integral power supply wires 3 x 1 x 0.75 mm²

Ø mm ²	Cu-Weight kg/km	Outer-Ø mm	Total-Weight kg/km	Article number
1 x 2 x 0.64	26.3	8.0	67.0	4430206451

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