



## PROFIBUS PA, black

UV-resistant bus cable for Profibus PA (IEC 61158-2, voltage mode, H1)

### Construction

- Conductor: bare Cu wire
- Core insulation: expanded PE
- Core colours: red and green
- Cores twisted in layers, with optimal lay lengths and blind cores in the voids
- Screened with composite aluminium foil and tinned copper braid
- Outer sheath: special PVC, flame retardant, resistant to UV radiation
- Sheath colour: RAL 5015 black

### Technical Datas

- Peak operating voltage: max. 100 V
- Test voltage: core/core 1000 V  
core/screen 800 V
- Conductor resistance:  $\leq 23 \text{ Ohm/km}$
- Insulation resistance:  $\geq 10 \text{ MOhm} \times \text{km}$
- Capacitance:  $\leq 80 \text{ nF/km}$
- Bending radius: single bending  $> 10 \times \text{cable diameter}$   
repeated bending  $> 15 \times \text{cable diameter}$
- Temperature range:  $-10^\circ\text{C}$  to  $+70^\circ\text{C}$  (UL  $+60^\circ\text{C}$ )
- Wave impedance at 31.25 kHz:  $100 \pm 20 \text{ Ohm}$ ; nominal value 100 Ohm
- Attenuation at 39 kHz:  $\leq 3 \text{ dB/km}$

### Properties

- Flame retardant to IEC 60332-1
- Oil resistant to VDE 0472 part 803
- resistance to UV-radiation
- superior properties in case of fire
- excellent resistance to mineral oils and grease

### Available special types

- as stranded conductor 1 x 2 x AWG 18/7 or 1 x 2 x AWG 18/19 or 1 x 2 x 1.5 mm<sup>2</sup>/7
- UL-listed type
- "SK" type (fast connect)

Ø mm <sup>2</sup>	Cu-Weight kg/km	Outer-Ø mm	Total-Weight kg/km	Article number
1 x 2 x 1.0	41.3	7.5	75.0	4431212201

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