

en 02-2014/08 50104603



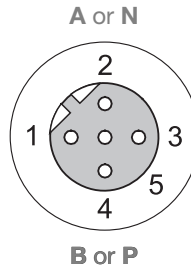
- Can be used for all Leuze products with integrated Profibus
- Standard cable available in lengths from 1 ... 30m
- Special cable lengths possible on request
- Halogen-free
- Silicone-free
- Suitable for drag chains

We reserve the right to make changes • DS\_AccessoryKB\_PB\_en\_50104603.fm

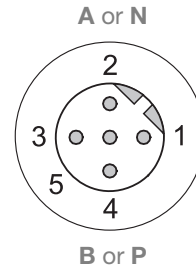


**Contact assignments**

**M12 socket**  
(B-coded)

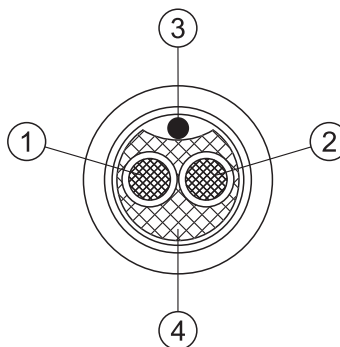


**M12 connector**  
(B-coded)



Contact	Signal	Colour
M12 connector		
M12 socket		
<b>1</b>	n.c.	
<b>2</b>	A / N	green
<b>3</b>	n.c.	
<b>4</b>	B / P	red
<b>5</b>	n.c.	
<b>Screw connection</b>	Shield	bare

**Cable construction**



- 1** Conductor with insulation **red**
- 2** Conductor with insulation **green**
- 3** Drain wire
- 4** Fibrous fleece

**Specifications**

**Cable construction**

Conductor	EL-Cu wire, bare, 19 x dia. 0.15mm = 0.34mm <sup>2</sup> (AWG 22), fine-stranded HALOGEN-FREE PE SKIN, wire diameter 2.5 ±0.1 mm
Insulation	AL-Pt foil (outer contact side)
Shield 1	EL-Cu wire, tin-plated, 7 x dia. 0.25mm = 0.34mm <sup>2</sup> (AWG 22), fine-stranded, single-conductor EL-Cu-58 F 21 wire acc. to DIN 40500 Part 5
Drain wire	Cu shielded line sheath
Shield 2	PES fleece
Armouring	PE filler
Filler	TPU 11YH1 polyetherurethane HALOGEN-FREE FLAME-RESISTANT MATT, flame resistance acc. to DIN VDE 0472-804 Inspection Type B, colour hue: violet RAL 4008, outer diameter 7.6 +0.3 mm, surface free of lubricants and greases
Sheathing	

**Electrical data <sup>1)</sup>**

Nominal voltage	≤ 250V
Test voltage	2000V <sub>eff</sub>
Line resistance	≤ 60Ω/km
Insulation resistance	≥ 2.5 · 10 <sup>9</sup> Ω · km
Impedance	≤ 160Ω
Capacitance (strand/strand)	25pF/m at 800MHz
Attenuation	43.6dB/km at 16MHz

**Environmental data**

Operating temperature range	at rest: -40°C ... +80°C in motion: -5°C ... +80°C
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**Other requirements**

PROFIBUS	The line fulfils the PROFIBUS definitions
Materials	Free of polybromated diphenyl ethers, HALOGEN-, SILICONE- and PVC-free, microbe- and hydrolysis-resistant
Bending radius	≥ 80mm (for dynamic applications), suitable for drag chains

1) At 20°C

**Order guide**

Part No.	Type / length	Designation
50104096	KB PB - 1000 - SBA	
50104097	KB PB - 2000 - SBA	
50104098	KB PB - 5000 - SBA	
50104099	KB PB - 10000 - SBA	Cable with integral M12 connector on one end and integral M12 socket on the other end, each with axial design
50104100	KB PB - 15000 - SBA	
50104101	KB PB - 20000 - SBA	
50104174	KB PB - 25000 - SBA	
50104173	KB PB - 30000 - SBA	
50104188	KB PB - 2000 - SA	
50104187	KB PB - 5000 - SA	
50104186	KB PB - 10000 - SA	Cable with integral M12 connector with axial design on one end and open wire on the other end
50104185	KB PB - 15000 - SA	
50104184	KB PB - 20000 - SA	
50104183	KB PB - 25000 - SA	
50104182	KB PB - 30000 - SA	
50104181	KB PB - 2000 - BA	
50104180	KB PB - 5000 - BA	
50104179	KB PB - 10000 - BA	Cable with integral M12 socket with axial design on one end and open wire on the other end
50104178	KB PB - 15000 - BA	
50104177	KB PB - 20000 - BA	
50104176	KB PB - 25000 - BA	
50104175	KB PB - 30000 - BA	

**Tables**

**Diagrams**

**Remarks**

**Type code:**

KB	PB	-	xxxxx	-	S	B	A
Abbreviation for cable	Cable for PROFIBUS		Cable length [mm]		Cable with connector	Cable with socket	Axial design