



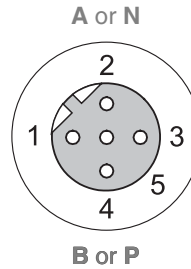
Standard Profibus Cable

KB PB ...

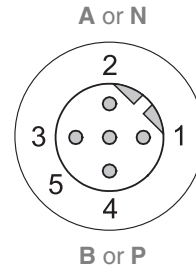


Contact assignments

M12 socket
(B-coded)

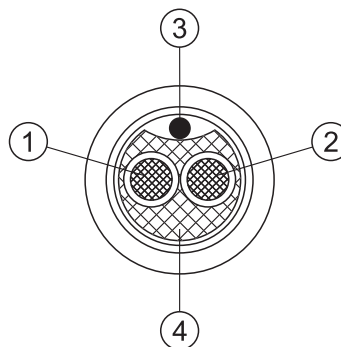


M12 connector
(B-coded)



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

Cable construction



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

Art.-Nr. 501 04604



- 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 * kb_pb_e.fm



Standard Profibus Cable

Specifications

Cable construction

Conductor	EL-Cu wire, bare, 19 x dia. 0.15mm = 0.34mm ² (AWG 22), fine-stranded HALOGEN-FREE PE SKIN, wire diameter 2.5 ±0.1mm
Insulation	AL-Pt foil (outer contact side)
Shield 1	EL-Cu wire, tin-plated, 7 x dia. 0.25mm = 0.34mm ² (AWG 22), fine-stranded,
Drain wire	single-conductor EL-Cu-58 F 21 wire acc. to DIN 40500 Part 5
Shield 2	Cu shielded line sheath
Armouring	PES fleece
Filler	PE filler
Sheathing	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 +0.3mm, surface free of lubricants and greases

Electrical data ¹⁾

Nominal voltage	≤ 250V
Test voltage	2000V _{eff}
Line resistance	≤ 60Ω/km
Insulation resistance	≥ 2.5 · 10 ⁹ 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
501 04096	KB PB - 1000 - SBA	
501 04097	KB PB - 2000 - SBA	
501 04098	KB PB - 5000 - SBA	
501 04099	KB PB - 10000 - SBA	
501 04100	KB PB - 15000 - SBA	
501 04101	KB PB - 20000 - SBA	
501 04174	KB PB - 25000 - SBA	
501 04173	KB PB - 30000 - SBA	
501 04188	KB PB - 2000 - SA	
501 04187	KB PB - 5000 - SA	
501 04186	KB PB - 10000 - SA	
501 04185	KB PB - 15000 - SA	
501 04184	KB PB - 20000 - SA	
501 04183	KB PB - 25000 - SA	
501 04182	KB PB - 30000 - SA	
501 04181	KB PB - 2000 - BA	
501 04180	KB PB - 5000 - BA	
501 04179	KB PB - 10000 - BA	
501 04178	KB PB - 15000 - BA	
501 04177	KB PB - 20000 - BA	
501 04176	KB PB - 25000 - BA	
501 04175	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