

## ZK1031-6300-1xxx | PROFIBUS cable, PUR, drag-chain suitable

M12, plug, angled, male, 4-pin, B-coded – open end, 2-wire + shielding

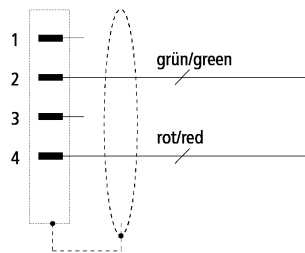
### Plugs

Electrical data	Head A	Head B
Rated voltage	160 V (according to IEC 61076-2-101)	-
Rated current	4 A at 40 °C (according to IEC 61076-2-101)	-
Shielding	yes	-
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	-
Mechanical data		
Installation size	M12	open end
Connector type	plug	-
Configuration	angled	-
Contact type	male	-
Number of positions (face)	4-pin	2-wire + shielding
Coding	B-coded	-
Recommended torque, nut	0.6 Nm	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-
Way of locking	screw	-
Body colour	black	-
Body material	TPU, UL 94	-
Coupling nut material	CuZn, Ni	-
Seal	FPM	-
Contact carrier colour	violet RAL 4001	-
Contact carrier material	TPU GF, UL 94	-
Contact plating	Ni, Au gal.	-
Contact material	CuZn	-
Environmental data		
Special features	flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1	-
RoHS compliant	yes	-
Ambient temperature (operation)	-30...+80 °C, -22...+176 °F	-
Protection class	IP 65/67 in screwed condition (according to IEC 60529)	-

# Cable

Electrical data	
Rated voltage	250 V
Operating voltage	≤ 300 V
Mutual capacitance wire/wire	max. 30 nF/km (800 Hz)
Insulation resistance	≥ 16 GΩ/km
Wire resistance	≤ 58 Ω/km (20 °C)
Loop resistance	≤ 133 Ω/km
Test voltage	≥ 3000 V
Mechanical data	
Cable structure	2 wires stranded with 2 drain wires
Cross section	2 x 0.34 mm <sup>2</sup> (AWG22)
Min. bending radius, fixed installation	7.5 x outer cable diameter
Weight	62 kg/km (41.66 lb/1000 ft)
Outer cable diameter	8.5 mm ± 0.4 mm (0.3346" ± 0.0157")
Conductor material	Copper bare
Shielding	aluminium-clad foil, braiding of tinned copper wires
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	4 m/s <sup>2</sup>
Max. number of cycles	5 million
Jacket colour	violet (similar to RAL 4001)
Material jacket	PUR (polyurethane)
Wire colour code	red, green
Wire insulation material	PE (polyethylene)
Printing on the jacket	BECKHOFF AUTOMATION ZB3200 PROFIBUS-DP 1x2x0.25 [length in meters] [internal number]
Printing colour	black
Environmental data	
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
Flame-retardant	according to IEC 60332-1-2

## Contact assembly



## Dimensions



A1	35.00 mm
A2	32.00 mm

## Notes

- Depending on the cable length (L), the following length tolerances apply:  
 0 m...<0.2 m:  $\pm 10$  mm | 0.2...4.0 m: + 40 mm |  $\geq 4.0$  m: + 1 %
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g. ZKxxx-xxx-x020 = cable length 2.00 m

Ordering information	Length
ZK1031-6300-1020	2.00 m
ZK1031-6300-1050	5.00 m
ZK1031-6300-1100	10.00 m
ZK1031-6300-1150	15.00 m

Accessories	
<b>ZB8801-0000</b>	torque wrench for hexagonal plugs, adjustable
<b>ZB8801-0002</b>	torque cable key, M12/wrench size 13, for ZB8801-0000

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