

# ZK4000-6261-0xxx | Motor connection cable 0.5 mm<sup>2</sup> with M12 plug, drag-chain suitable



M12, socket, straight, female, 4-pin, A-coded – M12, plug, straight, male, 4-pin, A-coded



## Plugs

Electrical data	Head A	Head B
Rated voltage	250 V (according to IEC 61076-2-101)	250 V (according to IEC 61076-2-101)
Rated current	5 A at 40 °C	5 A at 40 °C
Rated impulse voltage	1.5 kV	1.5 kV
Shielding	no	no
Contact resistance	< 10 mΩ	< 10 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	M12	M12
Connector type	socket	plug
Configuration	straight	straight
Contact type	female	male
Number of positions (face)	4-pin	4-pin
Coding	A-coded	A-coded

Recommended torque, nut	0.6 Nm	0.6 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Body color	black	black
Body material	TPU, UL 94	TPU, UL 94
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA 6, UL 94 V0	PA, UL 94 V-0
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	CuZn
<b>Environmental data</b>		
Special features	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+85 °C, -22...+185 °F	-30...+85 °C, -22...+185 °F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	IP65/67 in screwed condition (according to IEC 60529)
Pollution level	3/2 (according to IEC 60664-1)	3/2 (according to IEC 60664-1)

## Cable

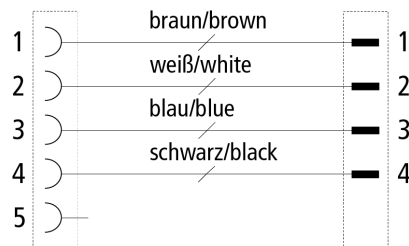
<b>Electrical data</b>		
Rated voltage	≤ 300 V	
Operating voltage	≤ 300 V	
Insulation resistance	≥ 1 GΩ * km	
Wire resistance	≤ 39 Ω/km (20 °C)	
Wire resistance (signal/24V)	ca. 39 Ω/km	
Test voltage	≥ 3000 V	
<b>Mechanical data</b>		
Conductor construction	28 x 0.15 mm	
Cross-section	4 x 0.5 mm <sup>2</sup> (AWG20)	
Cross-section (power)	4 x 0.5 mm <sup>2</sup> (AWG20)	
Min. bending radius, moved	10 x outer cable diameter	
Weight	42 kg/km (28.22 lb/1000 ft)	
Outer cable diameter	5.35 ± 0.15 mm	
Conductor material	copper bare	

Shielding	no
Use	drag-chain suitable
Max. acceleration	10 m/s <sup>2</sup>
Max. speed	3 m/s
Max. number of cycles	4 million
Wall thickness of wire insulation	≥ 0.21 mm
Jacket color	orange
Material jacket	PUR (polyurethane)
Wire color code	brown, white, blue, black
Wire insulation material	PP (polypropylene)
Printing color	black

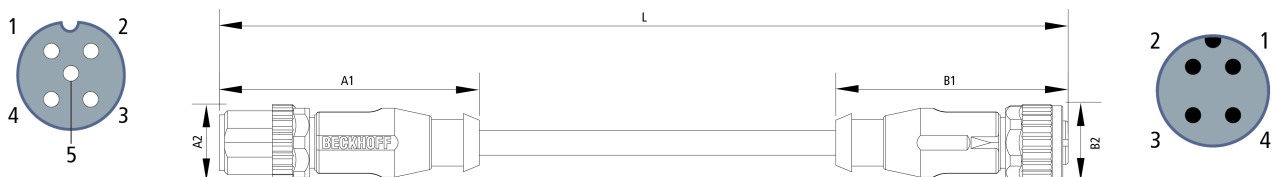
#### Environmental data

Operation temperature range, moved	-15...+80 °C, +5...+176 °F
Operation temperature range, fixed installation	-30...+80 °C, -22...+176 °F

#### Contact assembly



#### Dimensions



A1	44.00 mm
A2	14.50 mm
B1	49.00 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.

Ordering information	Length
ZK4000-6261-0005	0.50 m
ZK4000-6261-0010	1.00 m
ZK4000-6261-0020	2.00 m
ZK4000-6261-0100	10.00 m

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

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