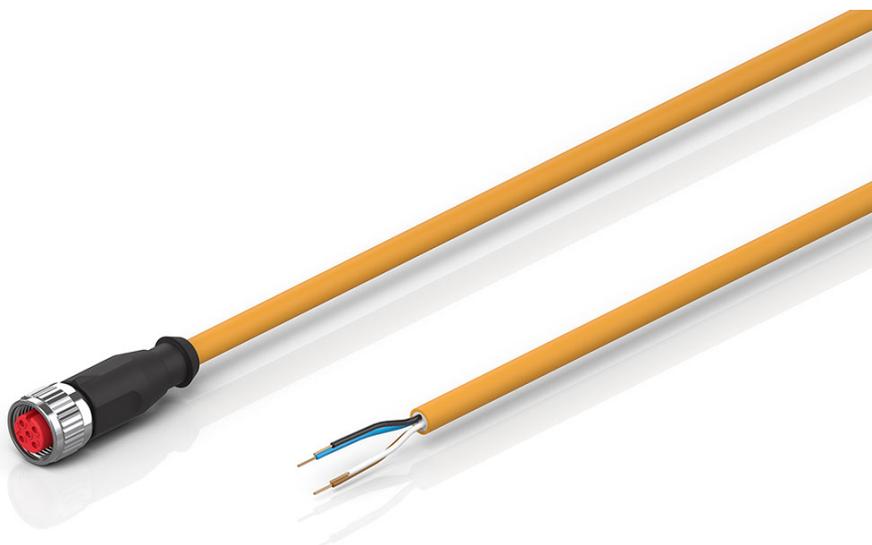# ZK4000-6200-2xxx | Motor connection cable 0.5 mm² with M12 plug, drag-chain suitable

M12, socket, straight, female, 4-pin, A-coded – open end, 4-wire

Plugs

Electrical data	Head A	Head B
Rated voltage	250 V (according to IEC 61076-2-101)	-
Rated current	5 A at 40°C	-
Rated impulse voltage	1.5 kV	-
Shielding	no	-
Contact resistance	< 10 mΩ	-
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	-
Mechanical data		
Installation size	M12	open end
Connector type	socket	-
Configuration	straight	-
Contact type	female	-
Number of positions (face)	4-pin	4-wire
Coding	A-coded	-
Recommended torque, nut	0.6 Nm	-

BECKHOFF New Automation Technology

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

Cable

Electrical data		
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	
Mechanical data		
Conductor construction	28 x 0.15 mm	
Cross-section	4 x 0.5 mm² (AWG20)	
Cross-section (power)	4 x 0.5 mm² (AWG20)	
Outer cable diameter	5.35 ± 0.15 mm	
Min. bending radius, moved	10 x outer cable diameter	
Weight	42 kg/km (28.22 lb/1000 ft)	
Conductor material	copper bare	
Shielding	no	

BECKHOFF New Automation Technology

Use	drag-chain suitable
Max. acceleration	10 m/s²
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

1 — braun/brown
2 — weiß/white
3 — blau/blue
4 — schwarz/black
5

Dimensions

A1	44.00 mm
A2	14.50 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:

BECKHOFF New Automation Technology

 0 m...<0.2 m: ± 10 mm | 0.2...4.0 m: + 40 mm | ≥ 4.0 m: + 1%
- Illustrations similar
- Further cable length on request.

CE, UL	
UL	yes, UL E-file number: E480185

Ordering information	Length
ZK4000-6200-2010	1.00 m
ZK4000-6200-2030	3.00 m
ZK4000-6200-2050	5.00 m
ZK4000-6200-2100	10.00 m

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000
ZB8803-0003	Flange/Panel feed-through for M12 pre-assembled, for fixing the connector, plastic