

ZK4000-7778-0xxx | Motor connection cable 0.75 mm² with M12 high-power plug (t coded), drag-chain suitable



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



Plugs

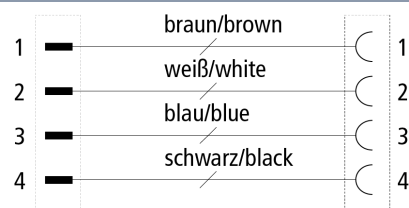
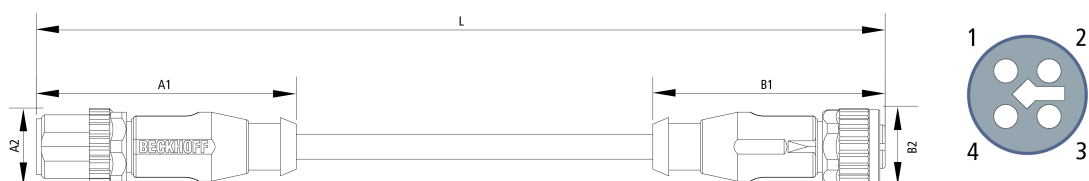
Electrical data	Head A	Head B
Rated voltage	160 V (according to IEC 61076-2-101)	160 V (according to IEC 61076-2-101)
Rated current	8 A at 50 °C (according to IEC 60512-5-2)	8 A at 50 °C (according to IEC 60512-5-2)
Shielding	yes	yes
Contact resistance	-	< 10 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	M12	M12
Connector type	plug	socket
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	4-pin	4-pin
Coding	T-coded	T-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 HB, black
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA, UL 94	PA, UL 94
Contact plating	-	Ni, Au gal.
Contact material	CuZn, Ni b/Au 0.2 gal.	CuZn
Environmental data		
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+80 °C, -22...+176 °F	-30...+80 °C, -22...+176 °F
Protection rating	IP67 in screwed condition (according to IEC 60529)	IP67 in screwed condition (according to IEC 60529)
Pollution level	3/2 (according to IEC 60664-1)	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	≤ 26 Ω/km (20 °C)	
Wire resistance (signal/24V)	≤ 26.0 Ω/km (DIN EN 50395)	
Test voltage	≥ 2000 V	
Mechanical data		
Conductor construction	42 x 0.15 mm	
Cross-section	4 x 0.75 mm ² (AWG18)	
Cross-section (power)	0.75 mm ² (approx. AWG18)	
Outer cable diameter	6.2 mm ± 0.2mm (0.244" ± 0.0079")	
Min. bending radius, moved	10 x outer cable diameter	
Min. bending radius, fixed installation	5 x outer cable diameter	
Weight	64 kg/km (95 lb/1000 ft)	
Conductor material	copper bare	
Shielding	braiding of tinned copper wires	

Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
UL-Style	UL758 (AWM) Style 21223 (jacket) and Style 10492 (core)
Max. number of cycles	2 million
Wall thickness of wire insulation	≥ 0.21 mm
Jacket color	orange
Material jacket	PUR (polyurethane)
Material jacket, further characteristics of	abrasion-resistant
Wire color code	brown, white, blue, black
Wire insulation material	PP (polypropylene)
Printing color	black
Environmental data	
Operation temperature range, moved	-25...+80 °C, -13...+176 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
UV resistance	yes
Oil resistance	168 h 100°C (according to DIN EN 60811-2-1)
Acid, lye and solvent resistance	depends on medium, concentration, temperature and duration
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	according to DIN VDE 0472 part 815, DIN EN 50267-2-1
Approvals	UL, CSA

Contact assembly**Dimensions**

A1	49.00 mm
B1	50.00 mm

Notes

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

Ordering information	Length
ZK4000-7778-0010	1.00 m
ZK4000-7778-0020	2.00 m
ZK4000-7778-0030	3.00 m
ZK4000-7778-0050	5.00 m
ZK4000-7778-0100	10.00 m

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