

ZK4000-6877-0xxx | Motor connection cable 0.75 mm² with M12 high-power plug (t coded), drag-chain suitable



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



Plugs

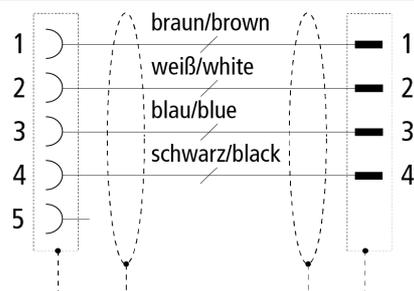
Electrical data	Head A	Head B
Rated voltage	160 V (according to IEC 61076-2-101)	160 V (according to IEC 61076-2-101)
Rated current	5 A at 40 °C	8 A at 50 °C (according to IEC 60512-5-2)
Shielding	yes	yes
Contact resistance	< 10 mΩ	< 10 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	M12	M12
Connector type	plug	socket
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	4-pin	4-pin
Coding	A-coded	T-coded

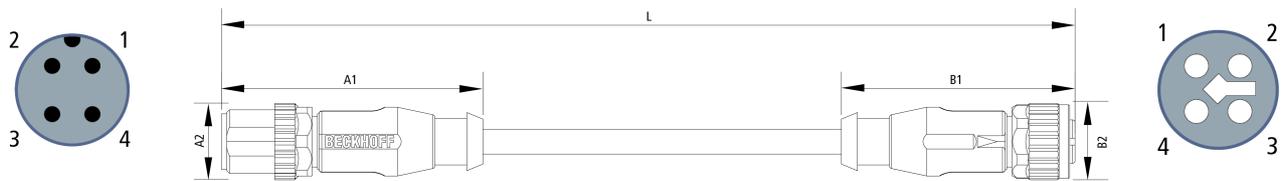
Recommended torque, nut	0.6 Nm	0.6 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Body color	black	black
Body material	TPU, UL 94 HB, schwarz	TPU, UL 94 HB, black
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA, UL 94	PA, UL 94
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	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	yes
Ambient temperature (operation)	-40...+85 °C, -40...+185 °F	-30...+80 °C, -22...+176 °F
Protection rating	IP65/67 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	50.00 mm
A2	14.50 mm
B1	49.00 mm
B2	14.50 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
ZK4000-6877-0005	0.50 m
ZK4000-6877-0010	1.00 m
ZK4000-6877-0020	2.00 m
ZK4000-6877-0030	3.00 m
ZK4000-6877-0040	4.00 m
ZK4000-6877-0050	5.00 m
ZK4000-6877-0060	6.00 m
ZK4000-6877-0075	7.50 m
ZK4000-6877-0100	10.00 m

Accessories

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



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

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