

ZK2080-4131-0xxx | Motor/Sensor cable, PUR, 5 x 0.34 mm², drag-chain suitable



M8, plug, straight, male, 5-pin, B-coded – M8, plug, straight, male, 4-pin, A-coded



Plugs

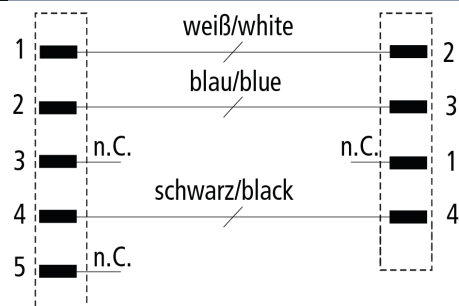
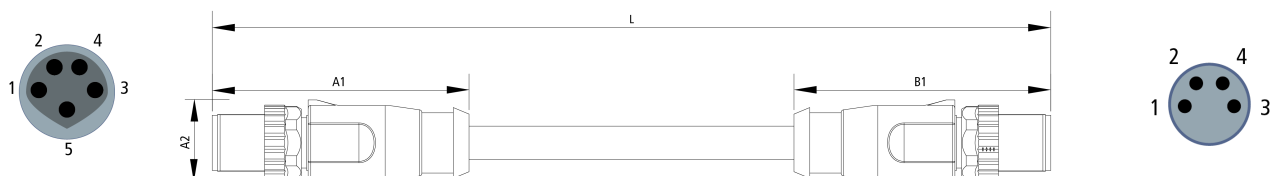
Electrical data	Head A	Head B
Rated voltage	32 V	50 V AC/60 V DC (according to IEC 61076-2-104)
Rated current	3 A at 40°C (according to IEC 61076-2-104)	4 A at 40°C (leaning on IEC 61076-2-104)
Shielding	no	no
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 10 GΩ (according to IEC 60512-2)
Mechanical data		
Installation size	M8	M8
Connector type	plug	plug
Configuration	straight	straight
Contact type	male	male
Number of positions (face)	5-pin	4-pin
Coding	B-coded	A-coded
Recommended torque, nut	0.4 Nm	0.4 Nm

Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight	-	0.028 kg (0.0617 lb)
Body color	black	black
Body material	TPU, UL 94, HB	TPU, UL94
Coupling nut material	GD-Zn, Ni	CuZn, Ni
Seal	-	FPM
Contact carrier color	black	red
Contact carrier material	PA, UL 94 V-0	TPU GF, UL 94
Contact plating	-	Ni, Au gal.
Contact material	CuZn, Ni b/Au	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)	-25...+80°C, -13...+176°F	-30...+80°C, -22...+176°F
Protection rating	IP67 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

Electrical data	
Rated voltage	60 V (according to IEC 61076-2-104)
Insulation resistance	≥ 1 GΩ * km
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20°C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (signal/24V)	42 x 0.10 mm
Cross-section (signal)	5 x 0.34 mm² (AWG22)
Outer cable diameter	5.1 mm ± 0.15 mm (0.200787" ± 0.0059")
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	37 kg/km (24.86 lb/1000 ft)
Shielding	no
Use	drag-chain suitable
Max. acceleration	10 m/s²

Max. speed	3 m/s
Max. travel distance	10 m
Max. number of cycles	4 million
Wall thickness of wire insulation (signal/24V)	≥ 0.21 mm
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, white, blue, black, gray
Printing color	white
Environmental data	
Operation temperature range, moved	-25...+80°C, -13...+176°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	according to DIN VDE 0472 part 815
CE	yes
UL	yes, UL E-file number: E242293

Pin assignment**Dimensions**

A1	40.0 mm
B1	39.60 mm

B2

Ø 10.1 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.

CE, UL

CE

yes

Ordering information

Length

ZK2080-4131-0005

0.50 m

ZK2080-4131-0010

1.00 m

Further length on request

Accessories

ZB8801-0000

torque wrench for hexagonal plugs, adjustable

ZB8801-0001

torque cable key, M8/wrench size 9, for ZB8801-0000

ZB8803-0001

Flange/Panel feed-through for M8 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts



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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