

ZK2021-6161-0xxx | Power cable, PUR, 4 x 1.5 mm², drag-chain suitable, black



M12, plug, straight, male, 5-pin, A-coded – M12, plug, straight, male, 5-pin, A-coded



Plugs

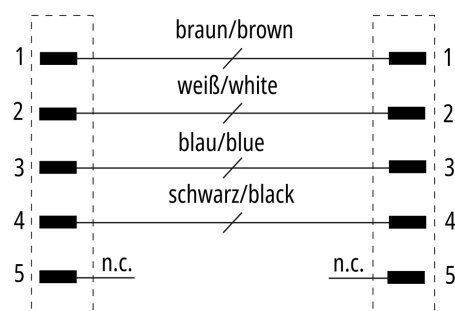
Electrical data	Head A	Head B
Rated voltage	60 V (according to IEC 61076-2-101)	60 V (according to IEC 61076-2-101)
Rated current	7.5 A at 40°C (according to IEC 61076-2-101)	7.5 A at 40°C (according to IEC 61076-2-101)
Shielding	no	no
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Accessories type	Connectors	Connectors
Installation size	M12	M12
Connector type	plug	plug
Configuration	straight	straight
Contact type	male	male
Number of positions (face)	5-pin	5-pin
Coding	A-coded	A-coded

Wire termination	screw connection	screw connection
Recommended torque, nut	0.6 Nm	0.6 Nm
Recommended torque, screw termination	0.3 Nm	0.3 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight	0.023 kg (0.0507 lb)	0.023 kg (0.0507 lb)
Body color	black	black
Body material	TPU, UL 94 HB	TPU, UL 94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
O-ring	NBR	NBR
Contact carrier color	red	red
Contact carrier material	PA, UL 94 V-0	PA, UL 94 V-0
Contact material	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
Max. wire cross-section	AWG16 (1.5 mm ²)	AWG16 (1.5 mm ²)
Max. cable outer diameter	4.0...8 mm	4.0...8 mm
Environmental data		
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)
UL	yes, UL E-file number: E331608	yes, UL E-file number: E331608

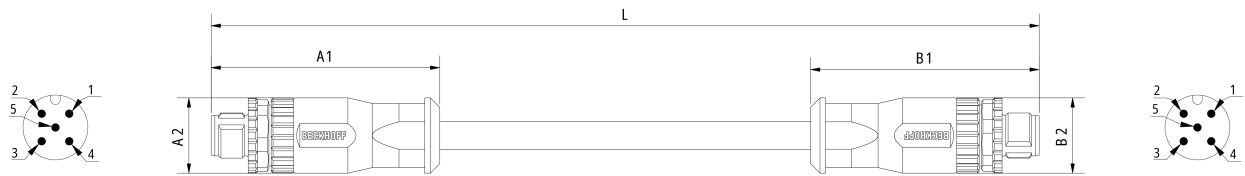
Cable

Electrical data	
Rated voltage	300 V
Wire resistance (power)	≤ 13.7 Ω/km
Test voltage	3000 V
Mechanical data	
Conductor construction (power)	84 x 0.15 mm
Cross-section	4 x 1.5 mm ² (AWG16)

Outer cable diameter	7.5 mm ± 0.2 mm (0.2952" ± 0.0078")
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Conductor material (power)	copper bare
Shielding	no
Use	drag-chain suitable
UL-Style	AWM 20549 (80°C/300V)
Max. acceleration	5 m/s ²
Max. speed	3.3 m/s
Max. number of cycles	≥ 2 million
Jacket color	black (similar to RAL9005)
Material jacket	PUR (polyurethane)
Material jacket, further characteristics of	microbe- and hydrolysis-resistant
Wire color code	white, blue, black, brown
Wire insulation material	PP (polypropylene)
Printing on the jacket	LiF9Y11Y 4 x 1,5mm ² E238831 cRUs AWM 20549 AWM I A/B 80°C 300V FT-2
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 UL FT2
Halogen-free	according to IEC 60754 or DIN VDE 0472 part 815
RoHS compliant	yes
UL	yes, UL E-file number: E238831
Approvals	UL AWM 20549, 80 °C, 300 V

Pin assignment

Dimensions



A1	49.00 mm
A2	Ø 20.00 mm
B1	49.00 mm
B2	Ø 20.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g.
ZKxxxx-xxxx-x020 = cable length 2.00 m
- The design of the pre-assembled cable shown here may differ from the products supplied, despite technically identical specifications.

CE, UL

CE yes

Ordering information

Length

ZK2021-6161-0003	0.30 m
ZK2021-6161-0005	0.50 m
ZK2021-6161-0010	1.00 m
ZK2021-6161-0020	2.00 m
ZK2021-6161-0050	5.00 m
ZK2021-6161-0100	10.00 m
ZK2021-6161-0150	15.00 m
ZK2021-6161-0200	20.00 m

Further length on request

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, 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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