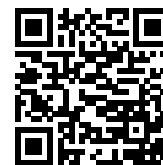


# ZK2020-3162-0xxx | Power cable, PUR, 4 x 0.34 mm<sup>2</sup>, drag-chain suitable



M8, plug, straight, male, 4-pin, A-coded – M12, socket, straight, female, 4-pin, A-coded



## Plugs

Electrical data	Head A	Head B
Rated voltage	30 V (according to IEC 61076-2-104)	250 V (according to IEC 61076-2-101)
Rated current	4 A at 40°C (leaning on IEC 61076-2-104)	4 A at 40°C (according to IEC 61076-2-101)
Rated impulse voltage	-	1.5 kV
Shielding	no	no
Contact resistance	-	< 10 mΩ
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	M8	M12
Connector type	plug	socket
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	4-pin	4-pin
Coding	A-coded	A-coded

Recommended torque, nut	0.4 Nm	0.6 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight per piece	0.028 kg (0.0617 lb)	-
Body color	black	black
Body material	TPU, UL94	TPU, UL 94
Coupling nut material	CuZn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	TPU GF, UL 94	PA 6, UL 94 V0
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	CuZn
<b>Environmental data</b>		
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...+80°C, -22...+176°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)

## Cable

<b>Electrical data</b>		
Rated voltage	≤ 300 V	
Insulation resistance	≥ 10 GΩ * km	
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20°C)	
Test voltage	≥ 3000 V	
<b>Mechanical data</b>		
Conductor construction (power)	42 x 0.10 mm	
Cross-section	4 x 0.34 mm <sup>2</sup> (AWG22)	
Outer cable diameter	4.7 mm ± 0.15 mm (0.185" ± 0.0059")	
Min. bending radius, moved	6 x outer cable diameter	
Min. bending radius, moved in drag-chain	10 x outer cable diameter	
Min. bending radius, fixed installation	5 x outer cable diameter	
Weight	31 kg/km (20.8 lb/1000 ft)	
Shielding	no	

Use	drag-chain suitable
Max. acceleration	10 m/s <sup>2</sup>
Max. speed	5 m/s
Max. number of cycles	10 million at max. 20 m travel distance, 2 million at max. 100 m travel distance
Wall thickness of wire insulation (power)	≥ 0.21 mm
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	white, blue, black, brown
Wire insulation material	PP (polypropylene)
Printing on the jacket	Li9Y11Y 4x0,34mm <sup>2</sup> E242293 (cULus-Symbol) AWM STYLE 20549 80C 300V AWM I A/B 80C 300V FT2
Printing color	white

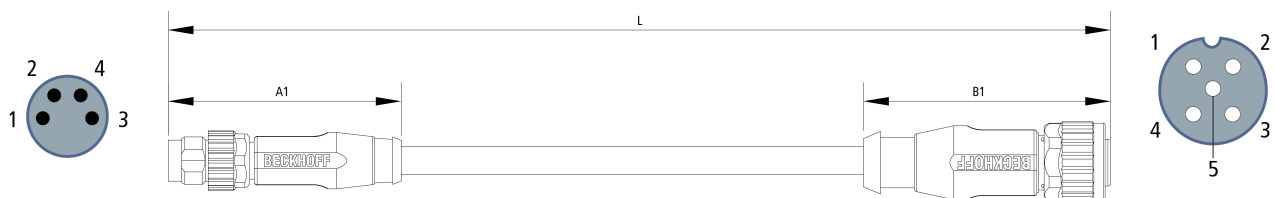
### Environmental data

Operation temperature range, moved	-25...+80°C, -13...+176°F
Oil resistance	168 h 100°C (according to DIN EN 60811-2-1)
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	DIN VDE 0472 part 815
CE	yes
UL	yes, UL E-file number: E242293

### Contact assembly



### Dimensions



A1	39.60 mm
A2	Ø 10.1 mm
B1	44.00 mm
B2	Ø 14.50 mm

## Notes

- Depending on the cable length (L), the following length tolerances apply:  
0 m...<0.2 m:  $\pm 10$  mm | 0.2...4.0 m: + 40 mm |  $\geq 4.0$  m: + 1%
- Illustrations similar
- Further cable length on request.

Ordering information	Length
ZK2020-3162-0003	0.30 m
ZK2020-3162-0005	0.50 m
ZK2020-3162-0010	1.00 m
ZK2020-3162-0015	1.50 m
ZK2020-3162-0020	2.00 m
ZK2020-3162-0030	3.00 m
ZK2020-3162-0040	4.00 m
ZK2020-3162-0050	5.00 m
ZK2020-3162-0060	6.00 m
ZK2020-3162-0070	7.00 m
ZK2020-3162-0080	8.00 m
ZK2020-3162-0090	9.00 m
ZK2020-3162-0100	10.00 m

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0001	torque cable key, M8/wrench size 9, for ZB8801-0000
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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