

# ZK2050-5154-0xxx | Power cable, PUR, drag-chain suitable, 5 x 1.5 mm<sup>2</sup>



M12, plug, straight, male, 5-pin, L-coded – M12, socket, angled, female, 5-pin, L-coded



## Plugs

Electrical data	Head A	Head B
Rated voltage	63 V (according to IEC 61076-2-111)	63 V (according to IEC 61076-2-111)
Rated current	12 A at 40°C (according to IEC 61076-2-111)	12 A at 40°C (according to IEC 61076-2-111)
Shielding	no	no
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	angled
Contact type	male	female
Number of positions (face)	5-pin	5-pin
Coding	L-coded	L-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, UL94 HB	TPU, UL94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	black	black
Contact carrier material	PC UL 94 V-0	PC UL 94 V-0
Contact material	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
<b>Environmental data</b>		
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)

## Cable

<b>Electrical data</b>	
Rated voltage	≤ 300 V
Wire resistance (power)	≤ 58.0 Ω/km
Test voltage	≥ 3000 V
<b>Mechanical data</b>	
Conductor construction (power)	84 x 0.15 mm
Cross-section	5 x 1.5 mm <sup>2</sup> (approx. AWG16)
Outer cable diameter	7.8 mm ± 0.2 mm (0.3071" ± 0.0079")
Min. bending radius, moved	6 x outer cable diameter
Weight	112.2 kg/km (75.17 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
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, white, blue, black, gray

Wire insulation material	PP (polypropylene)
Printing color	white
<b>Environmental data</b>	
Operation temperature range, moved	-25...+80°C, -13...+176°F
Flame-retardant	according to cULus 20549
Halogen-free	DIN VDE 0472 part 815

<b>Contact assembly</b>		
1	braun/brown	1
2	weiß/white	2
3	blau/blue	3
4	schwarz/black	4
FE	grau/grey	FE

## Dimensions



A1	53.00 mm
A2	Ø 16.00 mm
B1	40.0 mm
B2	~ 35.0 mm
B3	Ø 18.0 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.

<b>CE, UL</b>	
CE	yes

<b>Ordering information</b>	<b>Length</b>
ZK2050-5154-0003	0.30 m
ZK2050-5154-0008	0.80 m

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ZK2050-5154-0020	2.00 m
ZK2050-5154-0030	3.00 m
ZK2050-5154-0050	5.00 m

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### Accessories

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

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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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