

# ZK4501-8222-xxxx | Motor extension cable 1 mm<sup>2</sup> with itec® plug, drag-chain suitable



itec (Series 915), plug, straight, female, Power: 3+PE, Signal: 5 – itec (Series 915), socket, straight, male, Power: 3+PE, Signal: 5

## Plugs

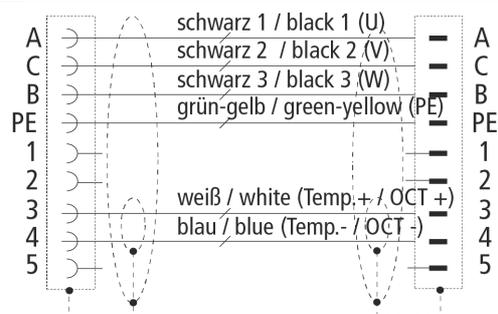
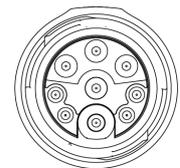
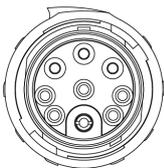
Electrical data	Head A	Head B
Rated voltage (power)	630 V AC/DC	630 V AC/DC
Rated voltage (signal/24V)	63 V AC/DC	63 V AC/DC
Rated current (power)	14 A	14 A
Rated current (signal/24V)	3.6 A	3.6 A
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (signal/24V)	1.5 kV	1.5 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Mechanical data		
Accessories type	Connector/cable	Connector/cable
Installation size	itec (Series 915)	itec (Series 915)
Connector type	plug	socket
Configuration	straight	straight
Contact type	female	male

Number of positions (face)	Power: 3+PE, Signal: 5	Power: 3+PE, Signal: 5
Wire termination	crimp connection	crimp connection
Mating cycles	500	500
Way of locking	bayonet	bayonet
Weight per piece	0.035 kg (0.0772 lb)	0.035 kg (0.0772 lb)
Body color	black, similar to RAL 9011	-
Body material	zinc diecast/plastic	zinc diecast/plastic
Seal	FKM	FKM
Clamp ring	brass/nickel plated	brass/nickel plated
Contact carrier material	PBT, PA, UL 94 V-0	PBT, PA, UL 94 V-0
Contact material	brass/gold plated	brass/gold plated
Max. wire cross-section	-	AWG16 (1.5 mm <sup>2</sup> )
Max. cable outer diameter	-	10.5 - 12.0 mm
<b>Environmental data</b>		
Special features	Max. height for operation 2000 m	Max. height for operation 2000 m
Shock resistance	30 g (conforms to EN 60060-2-27), 11 ms; 18 shocks per direction, 3 axes	30 g (conforms to EN 60060-2-27), 11 ms; 18 shocks per direction, 3 axes
Vibration resistance	10 g (conforms to EN 60068-2-27), 50 Hz...2000 Hz; 1 Octave/min.; 10 cycles per axis	10 g (conforms to EN 60068-2-27), 50 Hz...2000 Hz; 1 Octave/min.; 10 cycles per axis
Ambient temperature (operation)	-20...+130 °C, -4...+266 °F	-20...+130 °C, -4...+266 °F
Protection class	IP66/67 in screwed condition	IP66/67 in screwed condition
Pollution level	3 (according to VDE 0110/EN61984 part 6.19.2.2)	3 (according to VDE 0110/EN61984 part 6.19.2.2)
Overvoltage category	3 (according to VDE 0110/EN61984 part 6.19.2.2)	3 (according to VDE 0110/EN61984 part 6.19.2.2)

## Cable

<b>Electrical data</b>	
Operating voltage	max. 1000 V AC (UL)
Insulation resistance	≥ 100 MΩ * km
Mutual capacitance	AWG 26: nom. 45 nF/km
Wire resistance (power)	≤ 21.0 Ω/km
Wire resistance (signal/24V)	≤ 136.0 Ω/km
Characteristic impedance	Signal: 110 Ω ± 10 Ω (10 MHz) acc. to EN50289-1-11
Test voltage	4000 V (wire/wire), 3000 V (wire/screen)
<b>Mechanical data</b>	
Cross-section (power)	1.00 mm <sup>2</sup> (approx. AWG18)

Cross-section (signal)	AWG26 (approx. 0.14 mm <sup>2</sup> )
Min. bending radius, moved in drag-chain	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Outer cable diameter	9.0 mm ± 0.3 mm (0.3543" ± 0.0118")
Conductor material	copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. number of cycles	5 million
Jacket color	orange
Material jacket	PUR (polyurethane)
Wire insulation material	PO (Polyolefine)
Printing color	black
<b>Environmental data</b>	
Operation temperature range, moved	-20...+80 °C, -4...+176 °F
Operation temperature range, fixed installation	-20...+80 °C, -4...+176 °F
Halogen-free	yes
Silicone-free	yes
Approvals	UL-Style AWM 21223 80°C 1000V

**Contact assembly****Dimensions**

A1 44.00 mm

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A2	19.00 mm
B1	44.00 mm
B2	19.00 mm

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## Notes

- Depending on the cable length (L), the following length tolerances apply:  $\pm 2-3\%$
- Illustrations similar
- The last three digits of the ordering information is the cable length in decimeters, e.g. ZK4xxx-xxxx-x020 = cable length 2.00 m

Ordering information	Length
ZK4500-8222-xxxx	

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