

ZK4701-0401-2xxx | Motor extension cable 0.75 mm² with itec[®] plug for motors with OCT, fixed installation



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	Connectors	Connectors
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	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 ²)
Max. cable outer diameter	-	10.5...12.0 mm
Environmental data		
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 rating	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)
UL	yes, UL E-file number: E247738	-
Overvoltage category	3 (according to VDE 0110/EN61984 part 6.19.2.2)	3 (according to VDE 0110/EN61984 part 6.19.2.2)

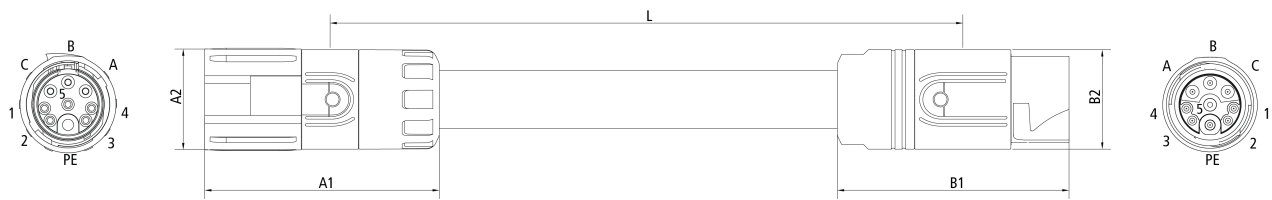
Cable

Electrical data	
Operating voltage	max. 300 V AC (UL), U ₀ /U 300/500 V (VDE)
Insulation resistance	≥ 200 MΩ * km
Wire resistance (power)	≤ 28.0 Ω/km (DIN EN 50395)
Wire resistance (signal/24V)	≤ 145.0 Ω/km (DIN EN 50395)
Wire resistance (brake)	≤ 87.0 Ω/km (DIN EN 50395)
Characteristic impedance	Signal: 110 Ω ± 10 Ω (10 MHz) acc. to EN50289-1-11
Dielectric strength wire/wire (power)	3 kV 50 Hz 5 min. (DIN VDE 0472 T.509C)

Dielectric strength wire/shield (power)	2 kV 50 Hz 5 min. (DIN VDE 0472 T.509C)
Mechanical data	
Cross-section (power)	0.75 mm ² (approx. AWG18)
Cross-section (signal)	0.14 mm ² (AWG26)
Cross-section (brake)	0.25 mm ² (AWG24)
Outer cable diameter	7.0 mm ± 0.3 mm (0.2756" ± 0.0118")
Min. bending radius, fixed installation	5 x outer cable diameter
Conductor material (signal/24V)	copper bare
Optical covering factor of shielding	≥ 85%
Use	fixed installation
Jacket color	orange
Material jacket	PVC (polyvinyl chloride)
Wire color code	power: black, brown, gray, green/yellow brake: black, red signal: white, blue
Wire insulation material	PO (Polyolefine)
Printing on the jacket	Beckhoff Automation GmbH & Co. KG – D – Verl - 4 G 0,75 + 2x0,25 + (2x26AWG)/C C E63216 (UL) AWM STYLE 2095 80°C 300V XX/YY (XX/YY = Week / Year)
Printing color	black
Environmental data	
Operation temperature range, moved	-20...+80°C, -4...+176°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Flame-retardant	Horizontal flame test
Halogen-free	no
Approvals	UL AWM 80 °C 300V

Pin assignment	

Dimensions	
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A1	44.00 mm
A2	19.00 mm
B1	44.00 mm
B2	19.00 mm

Notes

- The following length tolerances apply: 2-3%
- Illustrations similar

Ordering information	Length
ZK4701-0401-2002	0.20 m
ZK4701-0401-2003	0.30 m
ZK4701-0401-2004	0.40 m
ZK4701-0401-2005	0.50 m
ZK4701-0401-2010	1.00 m
ZK4701-0401-2020	2.00 m
ZK4701-0401-2030	3.00 m
ZK4701-0401-2040	4.00 m
ZK4701-0401-2050	5.00 m
ZK4701-0401-2060	6.00 m
ZK4701-0401-2070	7.00 m
ZK4701-0401-2080	8.00 m
ZK4701-0401-2090	9.00 m
ZK4701-0401-2100	10.00 m



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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