



ZK4701-0401-2xxx | Motor-/extension cable | AM81xx servomotors with OCT, fixed installation

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

Plugs

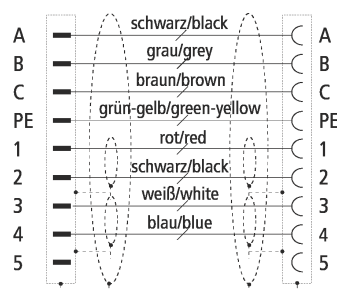
Electrical data	Head A	Head B
Rated voltage (power)	630 V AC/DC	630 V AC/DC
Rated voltage (signal/24V)	63 V AC/DC	63 V AC/DC
Rated current (power)	14 A	14 A
Rated current (signal/24V)	3.6 A	3.6 A
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (signal/24V)	1.5 kV	1.5 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Mechanical data		
Accessories Type	Connector	Connector
Installation size	itec (Series 915)	itec (Series 915)
Connector type	socket	plug
Configuration	straight	straight
Contact type	male	female
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
Body colour	-	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 class	IP 66/67 in screwed condition	IP 66/67 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)

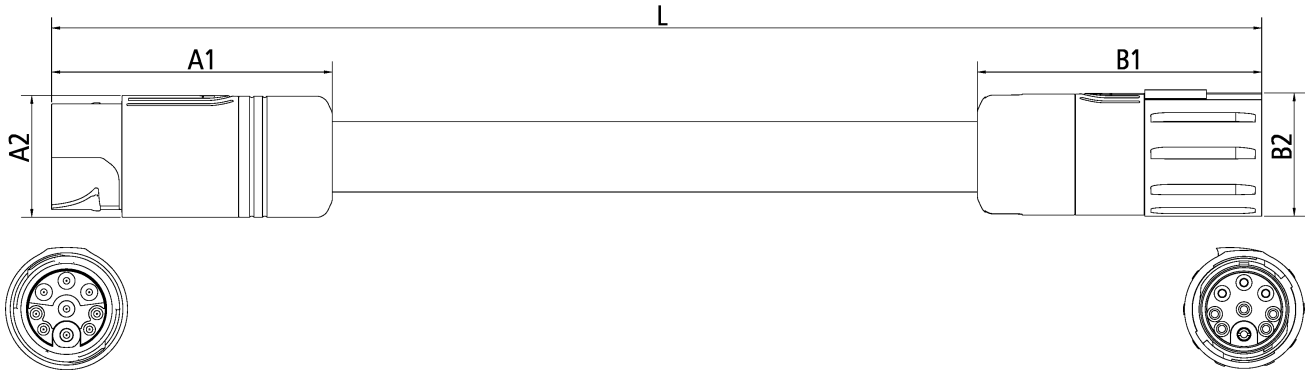
Cable

Electrical data	
Operating voltage	max. 300 V AC (UL), U _o /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)
Min. bending radius, fixed installation	5 x outer cable diameter
Outer cable diameter	7.0 mm ± 0.3 mm (0.433" ± 0.0157")
Conductor material (signal/24V)	copper bare
Optical covering factor of shielding	≥ 85%
Use	fixed installation
Jacket colour	orange
Material jacket	PVC (polyvinyl chloride)
Wire colour code	power: black, brown, grey, 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 colour	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
Approvals	UL AWM 80 °C 300V

Contact assembly



Dimensions



A1	43.00 mm
A2	Ø 18.6 mm
B1	42.7 mm
B2	Ø 18.6 mm

Notes

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

Ordering information	Length
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

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