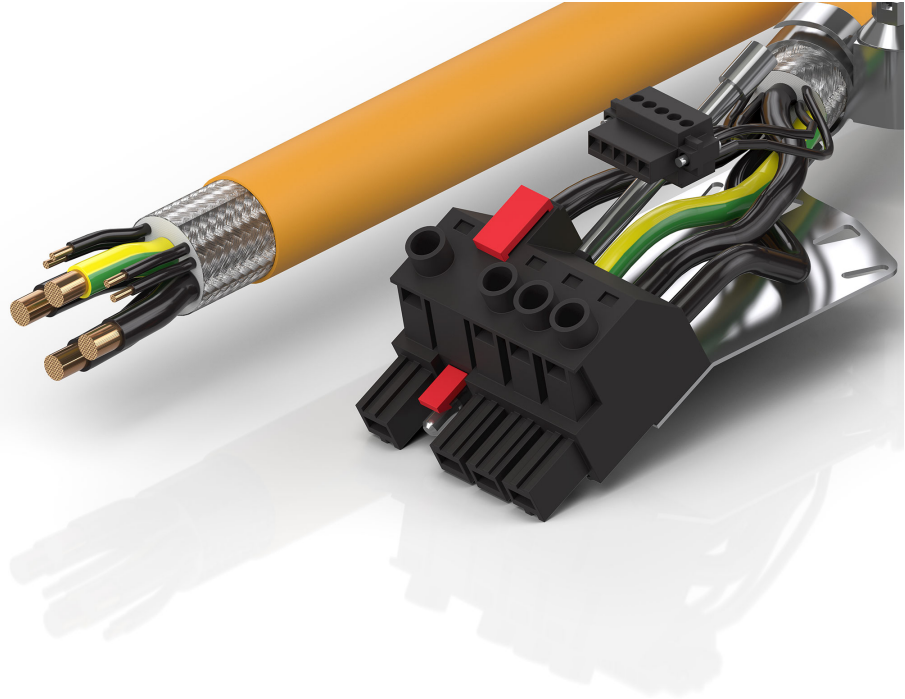


ZK4505-0017-xxxx | Motor connection cable 10 mm², drag-chain suitable



open end, 8-wire + shield – plug, angled, female, 4-pin – plug, straight, female, 5-pin



Plugs

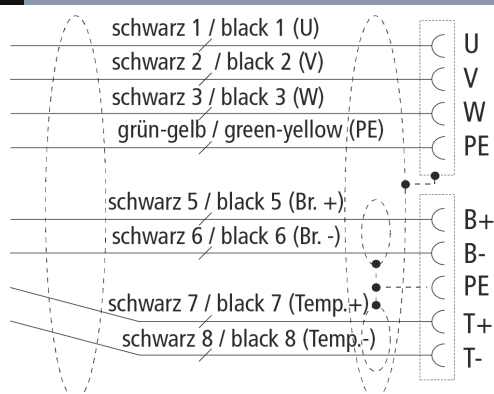
Electrical data	Head A	Head B	Head C
Rated voltage (power)	-	1000 V AC/DC (according to IEC 60664-1, IEC 61984), 600 V (according to UL 1059)	-
Rated voltage (signal/24V)	-	-	320 V (according to IEC 60664-1, IEC 61984), 300 V (according to UL 1059)
Rated current (power)	-	70,6 A at 40 °C (according to IEC 60664-1, IEC 61984), 60 A at 40 °C (according to UL 1059)	-
Rated current (signal/24V)	-	-	14.5 A at 40 °C (according to IEC 60664-1, IEC 61984), 10 A at 40 °C (according to UL 1059)
Rated impulse voltage (power)	-	8.0 kV	-
Rated impulse voltage (signal/24V)	-	-	2.5 kV
Contact resistance	-	4.5 mΩ	< 5 mΩ

Insulation resistance	-	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Insulation group	-	I	IIIa
Mechanical data			
Accessories type	-	Connector/cable	Connector/cable
Installation size	open end	-	-
Connector type	-	plug	plug
Configuration	-	angled	straight
Contact type	-	female	female
Number of positions (face)	8-wire + shield	4-pin	5-pin
Wire termination	-	Clamping yoke connection	Clamping yoke connection
Recommended torque, screw termination	-	1.2...1.5 Nm	0.2...0.25 Nm
Recommended torque, screw flange	-	0.6 Nm	0.15...0.2 Nm
Mating cycles	-	25	25
Way of locking	-	flange and screw	screw
Weight per piece	-	0.057 kg (0.1257 lb)	0.004 kg (0.0088 lb)
Body colour	-	black, similar to RAL 9011	black, similar to RAL 9011
Body material	-	PA GF, UL 94 V-0	PBT, UL 94 V-0
Contact carrier material	-	PA GF, UL 94 V-0	PBT, UL 94 V-0
Contact material	-	copper alloy	copper alloy
Max. wire cross section	-	AWG22...AWG4	AWG28...AWG14
Environmental data			
Ambient temperature (operation)	-	-50...+130 °C, -58...+266 °F	-50...+100 °C, -58...+212 °F
Protection class	-	IP 20	IP 20
Pollution level	-	3	3
Overvoltage category	-	3	3

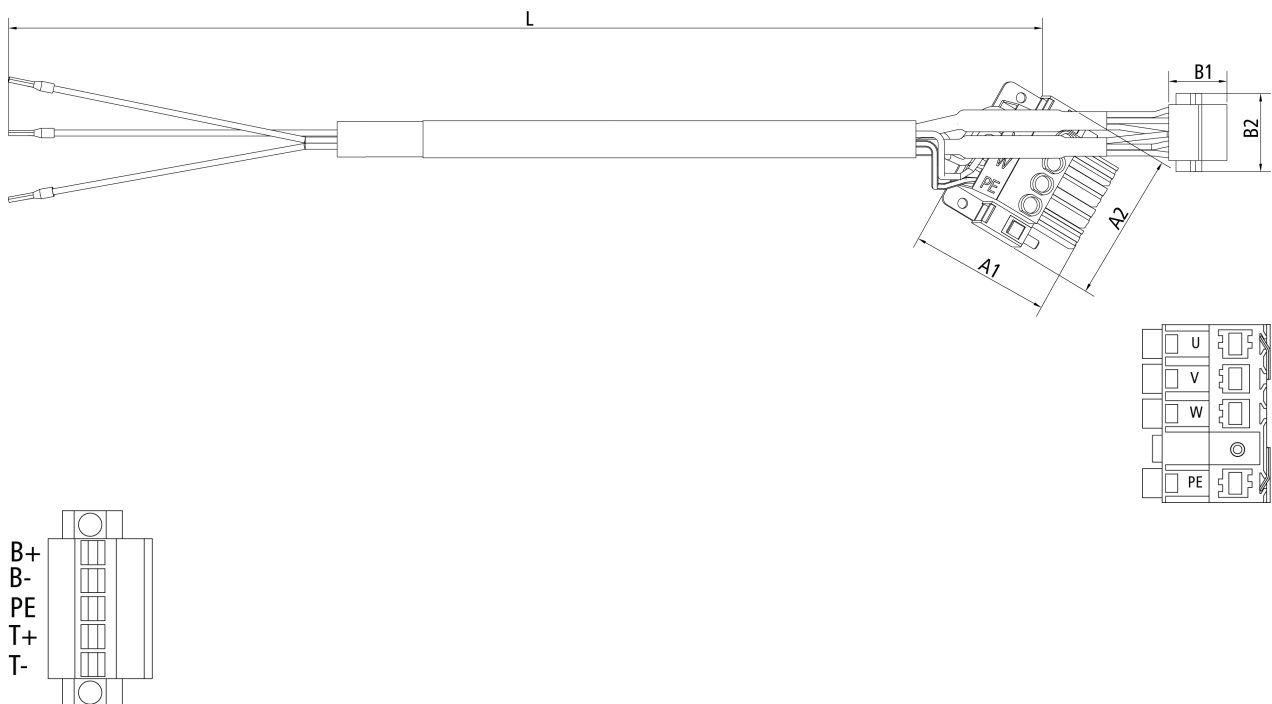
Cable

Electrical data	
Operating voltage	max. 1000 V AC (UL)
Insulation resistance	≥ 500 MΩ * km (DIN EN 50395)
Wire resistance (power)	≤ 1.91 Ω/km (DIN EN 50395)
Wire resistance (signal/24V)	≤ 19.5 Ω/km (DIN EN 50395)
Wire resistance (brake)	≤ 13.3 Ω/km (DIN EN 50395)
Test voltage	4000 V, 50 Hz, 5 min. (wire/wire and wire/screen)
Mechanical data	

Cross section (power)	10 mm ² (approx. AWG8)
Cross section (signal)	1 mm ² (approx. AWG18)
Cross section (brake)	1.50 mm ² (approx. AWG16)
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	20.3 mm ± 0.4 mm (0.7992" ± 0.0157")
Conductor material	Copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	50 m/s ² (depending on travel distance)
Max. speed	5 m/s
Max. number of cycles	10 million
Jacket colour	orange
Material jacket	TPU (thermoplastic polyurethane)
Wire insulation material	PP (polypropylene)
Printing colour	black
Torsion angle in °/m	max. ± 30 °/m
Environmental data	
Operation temperature range, moved	-30...+80 °C, -22...+176 °F, in drag-chain applications: -20...+60 °C, -4...+140 °F
Operation temperature range, fixed installation	-50...+80 °C, -58...+176 °F
Oil resistance	according to DIN EN 60811-2-1, HD22.10 appendix A
Flame-retardant	according to IEC 60332-1-2 UL758 cable flame test
Halogen-free	DIN VDE 0472 part 815
Silicone-free	yes
RoHS compliant	yes
Approvals	UL758 (AWM) Style 21223 (jacket) and Style 10492 (core)

Contact assembly

Dimensions



B1	137.00 mm
B2	52.00 mm
C1	19.00 mm
C2	25.00 mm

Notes

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

Ordering information

Length

ZK4505-0017-xxxx

xxxx = cable length in decimetres

xxxx = 0050

example for 5 m length

sold by the metre, admissible total cable length see documentation of Servo Drive

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