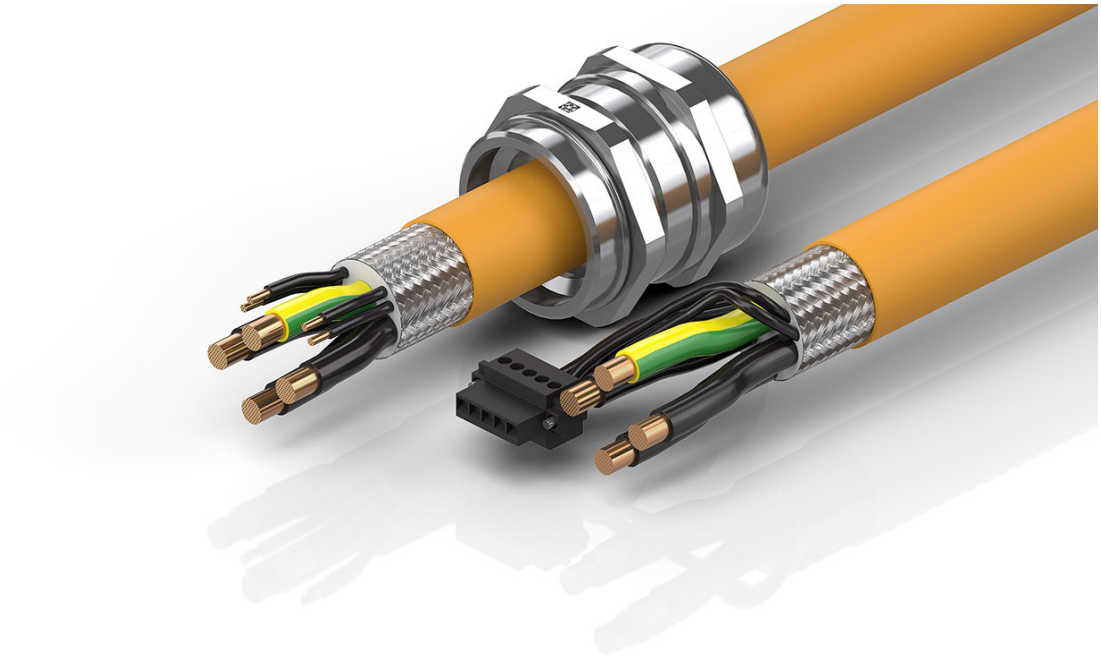
ZK4506-8318-xxxx | Motor connection cable 16 mm² with cable gland, drag-chain suitable

M40, cable gland, straight – Pitch dimension 5.08 mm, plug, straight, female, 5-pin – open end, 8-wire + shield



Plugs

Electrical data	Head A	Head B	Head C
Rated voltage (signal/24V)	-	300 V (accordig to UL 1059)	-
Rated current (signal/24V)	-	16 A at 40°C (according to IEC 60664–1, IEC 61984), 10 A at 40°C (according to UL 1059)	-
Rated impulse voltage (signal/24V)	-	4.0 kV	-
Contact resistance	-	< 5 mΩ	-
Insulation resistance	-	≥ 100 MΩ (according to IEC 60512)	-
Insulation group	-	IIIa	-
Mechanical data			
Accessories type	-	Connectors	-
Installation size	M40	Pitch dimension 5.08 mm	open end
Connector type	cable gland	plug	-

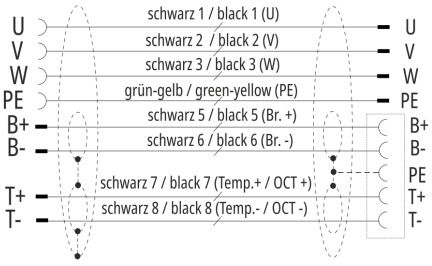
Configuration	straight	straight	-
Contact type	-	female	-
Number of positions (face)	-	5-pin	8-wire + shield
Wire termination	-	Clamping yoke connection	-
Recommended torque, screw termination	-	0.4...0.5 Nm	-
Mating cycles	-	25	-
Way of locking	screw	-	-
Weight	0.135 kg (0.2976 lb)	0.008 kg (0.0176 lb)	-
Body color	metal	black, similar to RAL 9011	-
Body material	brass/nickel plated	PBT, UL 94 V-0	-
Seal	elastomers	-	-
O-ring	elastomers	-	-
Contact carrier material	-	PBT, UL 94 V-0	-
Contact material	-	copper alloy	-
Max. wire cross-section	-	AWG26...AWG12 (0.13 mm^2...4 mm^2)	-
Max. cable outer diameter	19...28 mm	-	-
Environmental data			
Ambient temperature (operation)	-25...+100°C, -13...+212°F	-50...+100°C, -58...+212°F	-
Protection rating	IP68 at 10 bar/30min (according to DIN EN 60529)	-	-
Pollution level	-	3	-
Overvoltage category	-	3	-

Cable

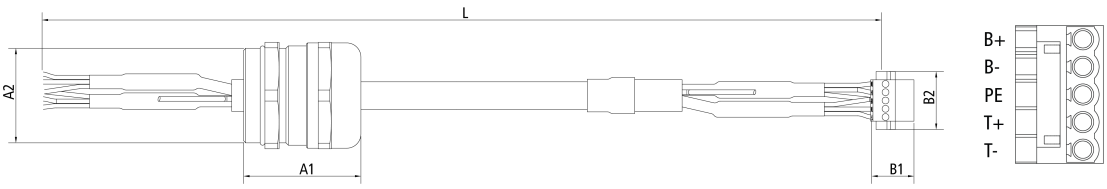
Electrical data	
Operating voltage	max. 1000 V AC (UL)
Insulation resistance	≥ 500 MΩ * km (DIN EN 50395)
Wire resistance (power)	≤ 1.21 Ω/km (DIN EN 50395)
Wire resistance (signal/24V)	≤ 13.3 Ω/km (DIN EN 50395)
Wire resistance (brake)	≤ 13.3 Ω/km (DIN EN 50395)
Test voltage	4000 V, 50 Hz, 5 min. (wire/wire and wire/screen)
Mechanical data	
Cross-section (power)	16 mm^2 (approx. AWG5)
Cross-section (signal)	1.5 mm^2 (approx. AWG16)
Cross-section (brake)	1.50 mm^2 (approx. AWG16)

Outer cable diameter	23.0 mm ± 0.5 mm (0.9055" ± 0.0197")
Min. bending radius, moved in drag-chain	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Conductor material	copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	5 m/s² (depending on travel distance)
Max. speed	3 m/s
Max. number of cycles	10 million
Jacket color	orange
Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing color	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	according to DIN VDE 0472 part 815
Silicone-free	yes
RoHS compliant	yes
Approvals	UL758 (AWM) Style 20234 (jacket) and Style 10492 (core)

Pin assignment



Dimensions



A1	48.00 mm
A2	40.00 mm
B1	20.00 mm
B2	27.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply: ± 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
ZK4506-8318-0050	5.00 m
ZK4506-8318-0080	8.00 m
ZK4506-8318-0100	10.00 m
ZK4506-8318-0200	20.00 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.