ZK4501-8026-xxxx | Motor extension cable 6 mm² with M40 speedtec® plug, drag-chain suitable

M40, plug, straight, female, Power: 4+PE, Signal: 4, Data: 2 – M40, socket, straight, male, Power: 4+PE, Signal: 4, Data: 2

Plugs

Electrical data	Head A	Head B
Rated voltage (power)	630 V AC / 850 V DC	630 V AC / 850 V DC
Rated voltage (signal/24V)	150 V AC/DC	150 V AC/DC
Rated current (power)	70 A max.	70 A max.
Rated current (signal/24V)	7 A max.	7 A max.
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (signal/24V)	2.5 kV	2.5 kV
Contact resistance	< 5 mΩ (signal), < 1 mΩ (power)	< 5 mΩ (signal), < 1 mΩ (power)
Mechanical data		
Accessories type	Connectors/Cables	Connectors/Cables
Installation size	M40	M40
Connector type	plug	socket
Configuration	straight	straight
Contact type	female	male

Number of positions (face)	Power: 4+PE, Signal: 4, Data: 2	Power: 4+PE, Signal: 4, Data: 2
Wire termination	crimp connection	crimp connection
Mating cycles	500	500
Way of locking	Speedtec®	Speedtec®
Weight per piece	0.450 kg (0.9921 lb)	0.460 kg (1.0141 lb)
Body color	metal	metal
Body material	zinc diecast/nickel plated	zinc diecast/nickel plated
Seal	FKM	FKM
Clamp ring	zinc diecast/nickel plated	zinc diecast/nickel plated
Contact carrier material	PA 6.6 mod., UL 94 V-0	PA 6.6 mod., UL 94 V-0
Contact material	brass/gold plated	brass/gold plated
Environmental data		
Special features	Max. height for operation 2000 m	Max. height for operation 2000 m
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)
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

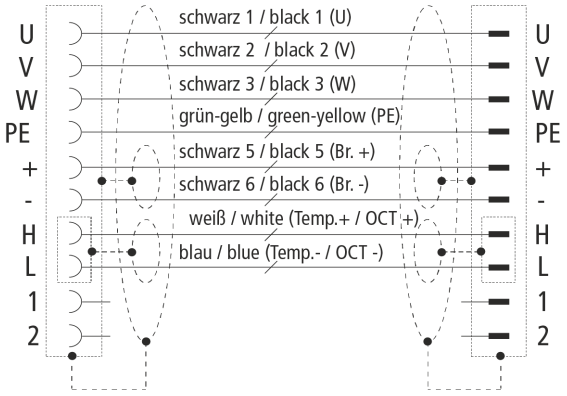
Electrical data	
Operating voltage	max. 1000 V AC (UL), Uo/U 600/1000 V (VDE)
Insulation resistance	≥ 20 MΩ*km
Mechanical data	
Cross-section (power)	6 mm^2 (approx. AWG10)
Cross-section (signal)	AWG22 (approx. 0.34 mm^2)
Cross-section (brake)	1.00 mm^2 (approx. AWG18)
Outer cable diameter	18.0 mm ± 0.4 mm (0.7087" ± 0.0157")
Min. bending radius, moved in drag-chain	7 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	540 kg/km (362.826 lb/1000 ft)
Conductor material	copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable

Max. acceleration	30 m/s² by 5 m travel distance 15 m/s² by 10 m travel distance 5 m/s² by 20 m travel distance
Max. speed	4 m/s
Max. travel distance	20 m (horizontal) 5 m (vertical)
Max. number of cycles	5 million
Jacket color	orange
Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing color	black

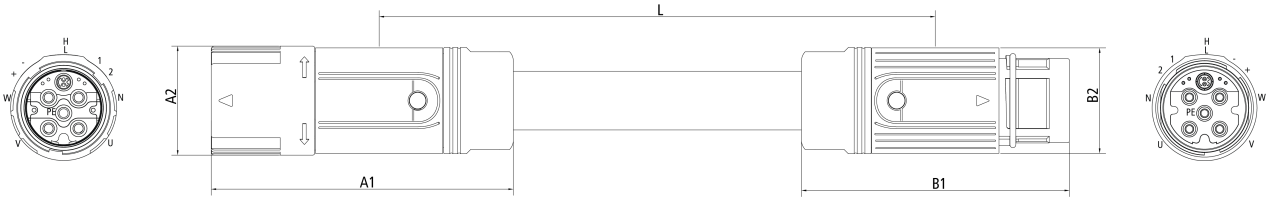
Environmental data

Operation temperature range, moved	-30...+80°C, -22...+176°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Oil resistance	yes
Flame-retardant	according to IEC 60332-1-2
Halogen-free	yes
Silicone-free	yes

Contact assembly



Dimensions



A1	100.00 mm
A2	46.00 mm

B1	110.00 mm
B2	45.00 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
ZK4501-8026-xxxx	xxxx = cable length in decimeters
	sold by the meter, admissible total cable length see documentation of Servo Drive
xxxx = 0050	example for 5 m length