ZK4501-0024-xxxx | Motor extension cable 2.5 mm² with M23 plug, drag-chain suitable



M23, plug, straight, female, 8-pin – M23, socket, straight, male, 8-pin



Plugs

Electrical data	Head A	Head B
Rated voltage (power)	630 V AC/DC	630 V AC/DC
Rated voltage (signal/24V)	250 V AC/DC	250 V AC/DC
Rated current (power)	30 A max.	30 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 m Ω (signal), < 3 m Ω (power)	< 5 m Ω (signal), < 3 m Ω (power)
Mechanical data		
Accessories type	Connector/cable	Connector/cable
Installation size	M23	M23
Connector type	plug	socket
Configuration	straight	straight
Contact type	female	male
Number of positions (face)	8-pin	8-pin



Wire termination	crimp connection	crimp connection
Mating cycles	500	500
Way of locking	Speedtec®	Speedtec®
Weight per piece	0.143 kg (0.3153 lb)	0.115 kg (0.2535 lb)
Body colour	metal	metal
Body material	zinc diecast/nickel plated	zinc diecast/nickel plated
Seal	FKM	FKM
Clamp ring	zinc diecast/nickel plated	brass/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 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)

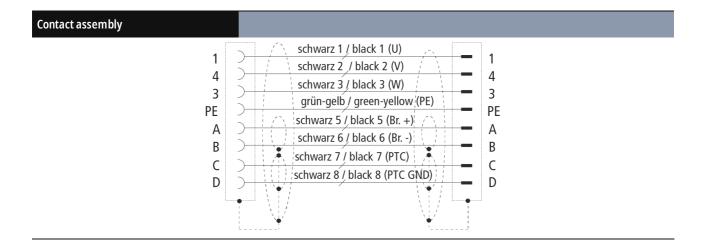
Cable

Electrical data	
Operating voltage	max. 1000 V AC (UL)
Insulation resistance	\geq 2.5 G Ω * km
Wire resistance (power)	≤ 7.98 Ω/km (DIN EN 50395)
Wire resistance (signal/24V)	≤ 19.5 Ω/km (DIN EN 50395)
Wire resistance (brake)	≤ 19.5 Ω/km (DIN EN 50395)
Test voltage	4000 V, 50 Hz, 5 min. (wire/wire and wire/screen)
Mechanical data	
Cross section (power)	2.50 mm² (approx. AWG14)
Cross section (signal)	1 mm² (approx. AWG18)
Cross section (brake)	1.00 mm² (approx. AWG18)
Min. bending radius, moved in drag chain	7.5 x outher cable diameter
Weight	300 kg/km (201.570 lb/1000 ft)
Outer cable diameter	14.6 mm ± 0.4 mm (0.5748" ± 0.0157")
Conductor material	Copper bare
Optical covering factor of shielding	≥ 85%



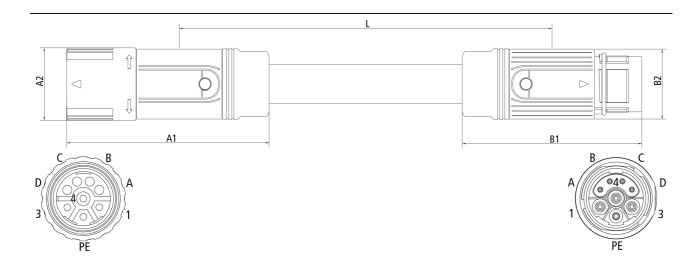
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Use	drag-chain suitable
Max. acceleration	50 m/s² (depending on travel distance)
Max. speed	5 m/s
Max. travel distance	50 m (horizontal)
Max. number of cycles	10 million
Jacket colour	orange
Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing colour	black
Torsion angle in °/m	max. ± 30 °/m
Max. tensile load, dynamic	20 N/mm²
Max. tensile load, static	50 N/mm²
Environmental data	
Operation temperature range, moved	-40+80 °C, -40+176 °F
Operation temperature range, fixed installation	-50+80 °C, -58+176 °F
Oil resistance	According to DIN EN 60811.2.1
Flame-retardant	according to IEC 60332-1
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
Approvals	UL-Style AWM 20234 80°C 1000 V



Dimensions

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A1	79.00 mm
A2	28.00 mm
B1	70.00 mm
B2	20.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply: \pm 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
ZK4501-0024-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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