ZK4501-0015-xxxx | Motor extension cable 4 mm² with M40 plug, drag-chain suitable

M40, plug, straight, female, 8-pin – M40, socket, straight, male, 8-pin

Plugs

Electrical data	Head A	Head B
Rated voltage (power)	630 V AC/DC	750 V AC/DC
Rated voltage (signal/24V)	250 V AC/DC	250 V AC/DC
Rated current (power)	75 A max.	75 A max.
Rated current (signal/24V)	30 A max.	10 A max.
Rated impulse voltage (power)	6.0 kV	8.0 kV
Rated impulse voltage (signal/24V)	4.0 kV	4.0 kV
Contact resistance	< 3 mΩ (signal), < 1 mΩ (power)	< 3 mΩ (signal), < 1 mΩ (power)
Mechanical data		
Accessories type	Connector/cable	Connector/cable
Installation size	M40	M40
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	0.417 kg (0.9193 lb)	0.475 kg (1.0472 lb)
Body colour	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 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

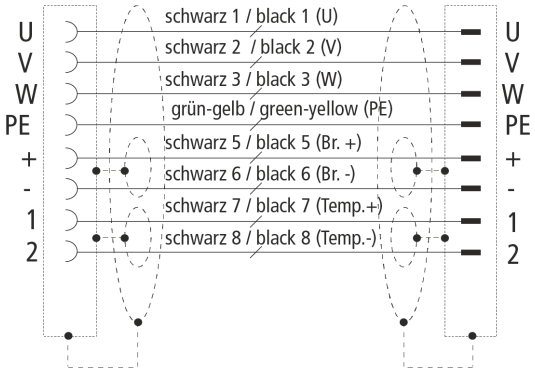
Electrical data	
Operating voltage	max. 1000 V AC (UL), Uo/U 600/1000 V (VDE)
Test voltage	4000 V
Mechanical data	
Cross section (power)	4.00 mm² (approx. AWG12)
Cross section (signal)	1 mm² (approx. AWG18)
Cross section (brake)	1.50 mm² (approx. AWG16)
Min. bending radius, moved in drag chain	10 x outer cable diameter
Weight	420 kg/km (282.198 lb/1000 ft)
Outer cable diameter	15.5 mm ± 0.3 mm (0.6102" ± 0.0118")
Conductor material	Copper bare
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	20 m/s²
Max. speed	3 m/s
Max. number of cycles	5 million

Jacket colour	orange
Material jacket	PUR (polyurethane)
Wire insulation material	TPM
Printing colour	black
Torsion angle in °/m	max. ± 30 °/m

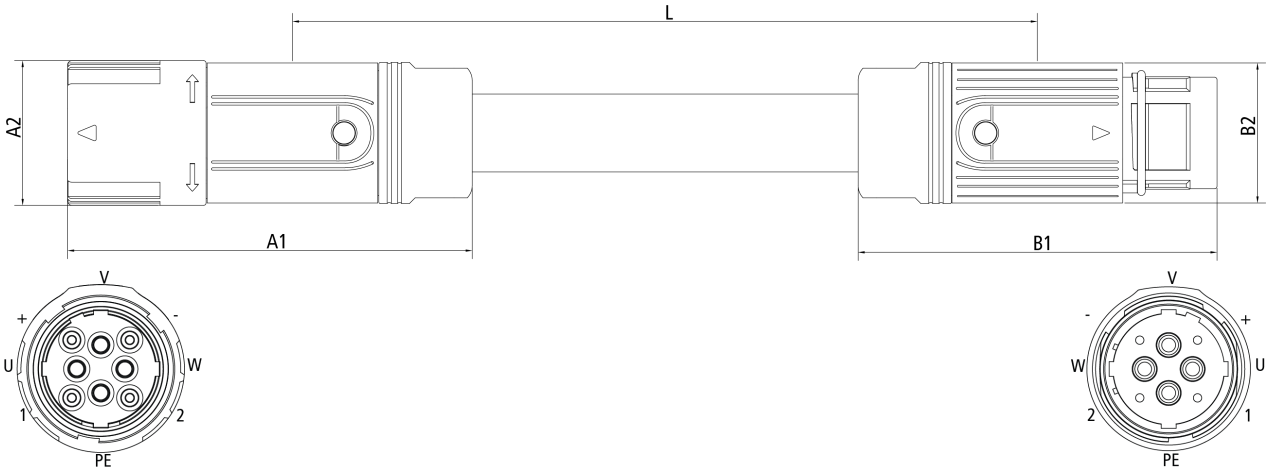
Environmental data

Operation temperature range, moved	-30...+80 °C, -22...+176 °F. in drag-chain with mechanical strain: -30...+60 °C, -22...+140 °F
Operation temperature range, fixed installation	-45...+80 °C, -49...+176 °F
Oil resistance	according to DIN EN 60811-404
Flame-retardant	according to IEC 60332-1
Halogen-free	yes
Approvals	UL-Style 21223

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
ZK4500-0015-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