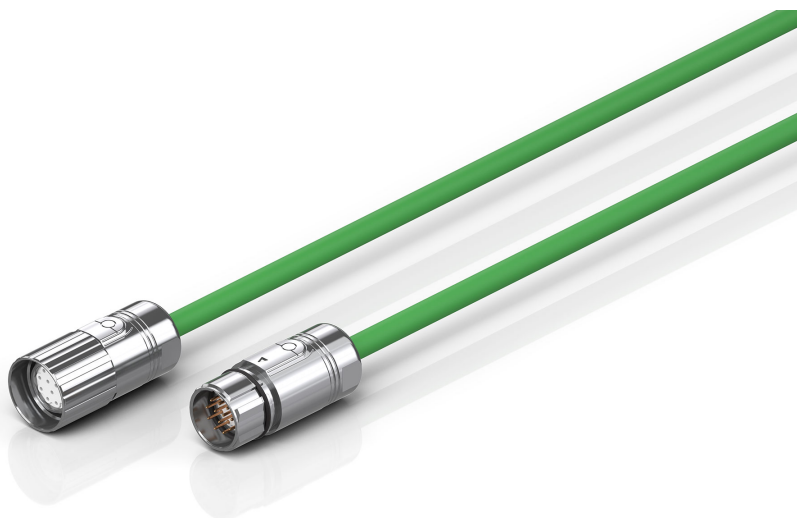


ZK4531-0010-xxxx | Resolver extension cable 0.25 mm² with M23 plug, drag-chain suitable



M23, plug, straight, female, 12-pin – M23, socket, straight, male, 12-pin



Plugs

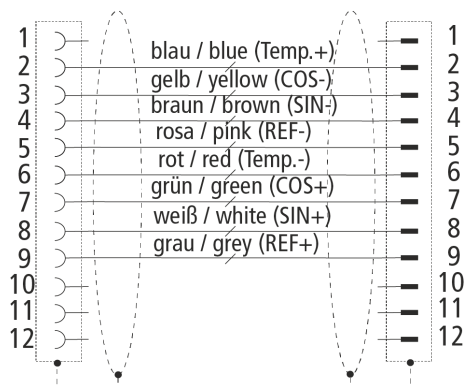
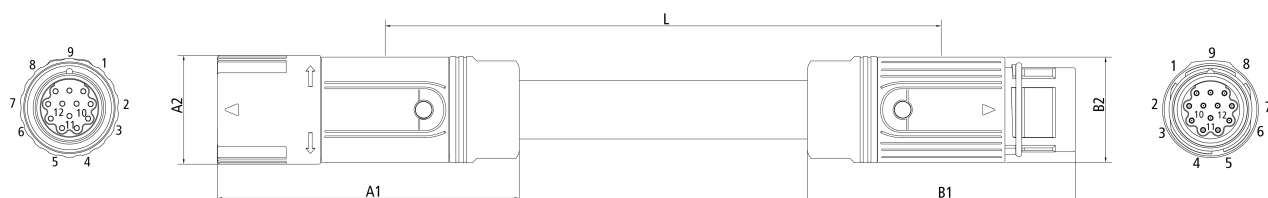
Electrical data	Head A	Head B
Rated voltage (signal/24V)	160 V AC/DC	160 V AC/DC
Rated current (signal/24V)	7 A max.	7 A max.
Rated impulse voltage (signal/24V)	2.5 kV	2.5 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Mechanical data		
Accessories type	Connectors/Cables	Connectors/Cables
Installation size	M23	M23
Connector type	plug	socket
Configuration	straight	straight
Contact type	female	male
Number of positions (face)	12-pin	12-pin
Wire termination	crimp connection	crimp connection
Mating cycles	500	500
Way of locking	Speedtec®	Speedtec®

Weight per piece	0.091 kg (0.2006 lb)	0.087 kg (0.1918 lb)
Body color	metal	metal
Body material	zinc diecast/nickel plated	zinc diecast/nickel plated
Seal	FKM	FKM
Clamp ring	brass/nickel plated	brass/nickel plated
Contact carrier material	PBT, UL 94 V-0	PBT, 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. 300 V AC (UL), U _o /U 300/300 V (VDE)	
Insulation resistance	≥ 500 MΩ	
Wire resistance	≤ 76.0 Ω/km	
Test voltage	1500 V (wire/wire and wire/screen)	
Mechanical data		
Cross-section	4 x 2 x 0.25 mm ²	
Outer cable diameter	7.5 mm ± 0.3 mm (0.2952" ± 0.0118")	
Min. bending radius, moved in drag-chain	10 x outer cable diameter	
Min. bending radius, fixed installation	8 x outer cable diameter	
Weight	80.3 kg/km (53.954 lb/1000 ft)	
Conductor material	copper, tinned	
Optical covering factor of shielding	≥ 85%	
Use	drag-chain suitable	
Max. acceleration	20 m/s ²	
Max. speed	3 m/s	
Max. travel distance	5 m	
Max. number of cycles	5 million	
Jacket color	green	

Material jacket	PUR (polyurethane)
Wire insulation material	PP (polypropylene)
Printing color	black
Torsion angle in °/m	max. ± 30 °/m
Max. tensile load, dynamic	20 N/mm ²
Max. tensile load, static	50 N/mm ²
Environmental data	
Operation temperature range, moved	-20...+80 °C, -4...+176 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+185 °F
Oil resistance	according to UL 1581
Flame-retardant	according to IEC 60332-1
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
RoHS compliant	yes
Approvals	cRUus AWM Style 20233, CE compliant

Contact assembly**Dimensions**

A1	59.00 mm
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A2	26.00 mm
----	----------

B1	57.00 mm
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B2

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 decimeters, e.g. ZK4xxx-xxxx-x020 = cable length 2.00 m

Ordering information	Length
ZK4531-0010-xxxx	xxxx = cable length in decimeters
xxxx = 0050	example for 5 m length
	sold by the meter, admissible total cable length see documentation of Servo Drive

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