

ZK7A52-6566-0xxx | B23, Power cable, PUR, IP67, 7 G 2.5 mm², drag-chain suitable, key 3 (user- defined voltage)



B23, plug, straight, male+blanking plug, pins 6+PE, Power – B23, plug,
straight, female+blanking plug, pins 6+PE, Power



Plugs

Electrical data	Head A	Head B
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	630 V AC / 850 V DC, 600V AC / DC (UL)
Rated current (power)	20 A at 30 °C	20 A at 30 °C
Rated impulse voltage (power)	6.0 kV	6.0 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	B23	B23
Connector type	plug	plug
Configuration	straight	straight
Contact type	male+blanking plug	female+blanking plug
Number of positions (face)	pins 6+PE	pins 6+PE
Coding	Power	Power

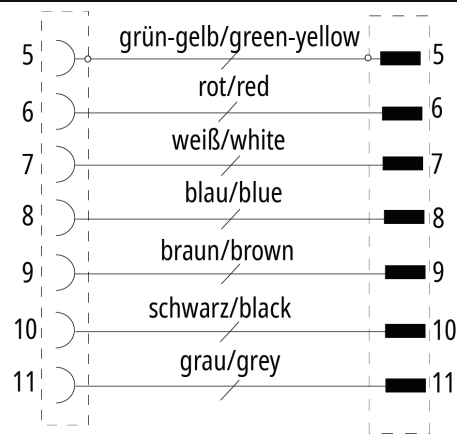
Mechanical coding	key 3 (user-defined voltage)	key 3 (user-defined voltage)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight per piece	0.100 kg (0.220 lb)	0.100 kg (0.220 lb)
Body color	black	black
Body material	TPU, UL 94 HB	TPU, UL 94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	NBR, FPM	NBR, FPM
Contact carrier material	PA 6, UL 94 V0	PA 6, UL 94 V0
Contact carrier color (power)	red	red
Contact plating	Au over Ni	Au over Ni
Contact material	copper alloy	copper alloy
Environmental data		
Shock resistance	50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes	50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes
Vibration resistance	5 g (50 m/s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration	5 g (50 m/s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-30...+80°C, -22...+176°F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	IP65/67 in screwed condition (according to IEC 60529)
Pollution level	3/2 (according to IEC 60664-1)	3/2 (according to IEC 60664-1)

Cable

Electrical data		
Operating voltage	≤ 1000 V AC	
Insulation resistance	≥ 500 MΩ * km (DIN EN 50395 cl. 8.1)	
Wire resistance (power)	≤ 7.98 Ω/km (DIN EN 50395)	
Dielectric strength wire/wire (power)	4 kV x 5 min (EN 50289-1-3)	
Dielectric strength wire/shield (power)	4 kV x 5 min (EN 50289-1-3)	
Mechanical data		
Conductor construction	7 strand	
Conductor construction (Ethernet)	-	
Cross-section	7 G 2.5 mm ² (AWG14)	
Outer cable diameter	13.20 ± 0.20 mm	
Min. bending radius, moved	7 x outer cable diameter	
Min. bending radius, fixed installation	4 x outer cable diameter	

Conductor material	copper bare
Shielding	braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	≥ 85 %
Optical covering factor of shielding (total)	yes
Use	drag-chain suitable
UL-Style	UL758 (AMW) Style 22381/11657 90°C 1000V
Max. acceleration	30 m/s ² by 5 m travel distance 15 m/s ² by 10 m travel distance 5 m/s ² by 20 m travel distance
Max. speed	4 m/s
Max. number of cycles	10 million
Jacket color	black (similar to RAL9005)
Material jacket	PUR (polyurethane)
Wire color code	black, brown, grey, red, blue, white, black, green-yellow
Wire insulation material	PP (polypropylene)
Printing on the jacket	XXXXM Beckhoff Automation GmbH & Co. KG-Germany - Industrial Ethernet / EtherCAT ZB9050-0002 (7 G 2,5mm ²)C E356538 AWM I/II A/B 90°C 1000V FT2 RoHS MM/JJ
Printing color	white
Torsion angle in °/m	max. ± 30 °/m
Environmental data	
Operation temperature range, moved	-40...+90°C, -40...+194°F
Operation temperature range, fixed installation	-50...+90°C, -58...+194°F
UV resistance	yes
Oil resistance	according to EN 50363-10-2
Flame-retardant	acc. to IEC 60332-1-2, acc. to UL/CSA FT1, acc. to UL VW1, acc. to UL/CSA FT2
CFC-free	yes
Halogen-free	according to IEC 60754-1
Silicone-free	yes
Approvals	cRUus

Contact assembly



Dimensions

A1	95.00 mm
A2	29.00 mm
B1	95.00 mm
B2	29.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g.
ZKxxxx-xxx-x020 = cable length 2.00 m

CE, UL

CE	yes
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Ordering information

Ordering information	Length
ZK7A52-6566-0010	1.00 m
ZK7A52-6566-0030	3.00 m
ZK7A52-6566-0050	5.00 m
ZK7A52-6566-0075	7.50 m
ZK7A52-6566-0100	10.00 m
ZK7A52-6566-0120	12.00 m
ZK7A52-6566-0150	15.00 m
ZK7A52-6566-0200	20.00 m
ZK7A52-6566-0250	25.00 m

Further length on request

Accessories

ZB8805-0002

Flange/Panel feed-through for B23 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts



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.

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