

ZK7A44-30C4-Xxxx | B23, Power cable, special assignment, PUR, 3 G 2.5 mm², drag chain suitable, (special mechanical coding)



B23, plug, straight, male+male, pins 4+PE+4, EtherCAT P-coded – B23, flange rear assembly, straight, short, female+blanking plug, pins 2+PE, Power



Plugs

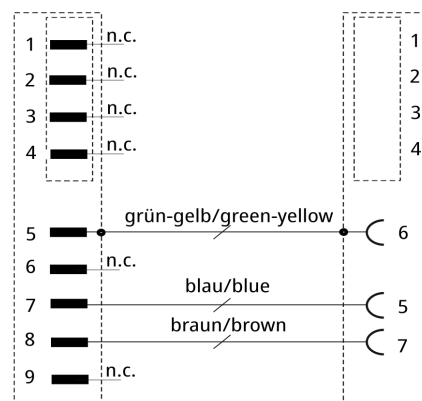
Electrical data	Head A	Head B
Rated voltage (Ethernet)	24 V DC	-
Rated current (Ethernet)	3 A at 40°C	-
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	630 V AC / 850 V DC, 600V AC / DC (UL)
Rated current (power)	28 A at 40°C	28 A at 40°C
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (Ethernet)	1.0 kV	-
Voltage proof (contact/contact)	1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet)	-
Shielding (Ethernet)	yes	-
Contact resistance	< 10 mΩ (signal), < 5 mΩ (power)	-
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ
Mechanical data		

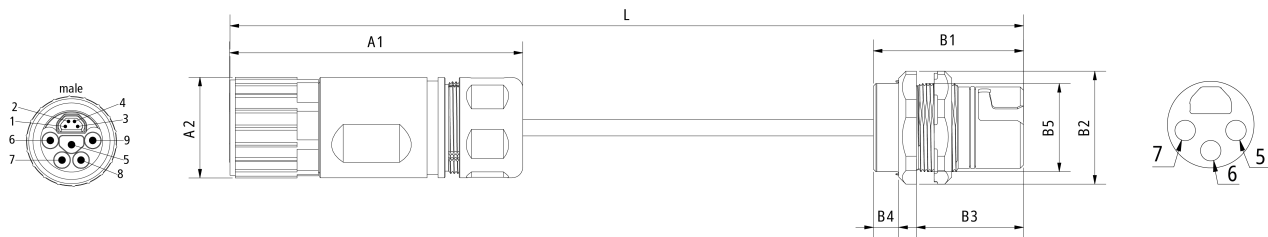
Installation size	B23	B23
Connector type	plug	flange rear assembly
Configuration	straight	straight, short
Contact type	male+male	female+blanking plug
Number of positions (face)	pins 4+PE+4	pins 2+PE
Coding	EtherCAT P-coded	Power
Mechanical coding	key 3 (300 V, PE, 24 V)	key 2 (user-defined voltage)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight	0.100 kg (0.2205 lb)	-
Body color	black	-
Body material	TPU, UL 94 HB	-
Flange housing material	-	GD-Zn, Ni
Coupling nut material	GD-Zn, Ni	-
Seal	NBR, FPM	HNBR
Contact carrier material	PA 6, UL 94 V0	PA, UL 94 V-0
Contact carrier color (Ethernet)	red	-
Contact carrier color (power)	red	red
Contact plating	Au over Ni	Ni, Au gal.
Contact material	copper alloy	copper alloy
Max. wire cross-section (power)	-	AWG14/2.5 mm ²
Environmental data		
Shock resistance	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	-
RoHS compliant	yes	-
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-20...+90°C, -4...+194°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)	-
Approvals	UL 2237: File E484763	-

Cable

Electrical data		
Rated voltage	300 V	

Test voltage	≥ 2000 V
Mechanical data	
Cross-section (power)	3 x 2.5 mm ² (approx. AWG14)
Outer cable diameter	8.4 mm ± 0.2 mm
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Shielding	no
Use	drag-chain suitable
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, blue, green/yellow
Wire insulation material	PP (polypropylene)
Printing color	white
Environmental data	
Operation temperature range, moved	-30...+80°C, -22...+176°F
Oil resistance	according to EN 50363-10-2
Flame-retardant	according to UL FT2
Halogen-free	according to IEC 60754-1
RoHS compliant	yes

Pin assignment**Dimensions**



A1	93.60 mm
A2	28.50 mm
B1	42.50 mm
B2	30.00 mm
B3	25.00 mm
B4	30.30 mm
B5	7.20 mm
B6	M25

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-xxxx-x020 = cable length 2.00 m
- The design of the pre-assembled cable shown here may differ from the products supplied, despite technically identical specifications.

CE, UL	
CE	yes

Ordering information	Length
ZK7A44-30C4-X005	0.50 m
ZK7A44-30C4-X010	1.00 m
ZK7A44-30C4-X015	1.50 m
ZK7A44-30C4-X020	2.00 m
ZK7A44-30C4-X025	2.50 m
ZK7A44-30C4-X030	3.00 m
ZK7A44-30C4-X035	3.50 m
ZK7A44-30C4-X040	4.00 m

ZK7A44-30C4-X045	4.50 m
ZK7A44-30C4-X050	5.00 m

Further length on request



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.

Beckhoff®, ATRO®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, MX-System®, Safety over EtherCAT®, TC/BSD®, TwinCAT®, TwinCAT/BSD®, TwinSAFE®, XFC®, XPlanar® and XTS® are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 08/2026

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.