

Beckhoff — ZK Motor Cables

ZK7208-3031-A100 **In-Stock, Ships Today**

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The **ZK7208-3031-A100** is a preassembled motor cable from Beckhoff's ZK Motor Cables series, designed for EtherCAT P-driven servo systems. It combines power conductors and Ethernet lines in a single jacket so that drives, I/O modules, and sensors can be wired efficiently on automated machinery. Within an installation, the cable carries both a 24 V auxiliary supply and control signals, eliminating parallel cable runs and reducing panel space when integrating drives into an EtherCAT P topology.

The cable is supplied at a fixed length of **10.0 m**, providing sufficient room for routing inside drag chains while keeping attenuation within the Cat.5 limit for 100 Mbit/s fieldbus traffic. Its insulation and conductor spacing support voltages up to **630 V AC or 850 V DC**, keeping line-to-line surges from regenerative drives within the dielectric limit. A continuous current rating of **16 A** at 40 °C supports standard AX5000 servo axes and corresponds to the four power contacts and protective earth contact entering the hybrid connector. The data pair has a **Cat.5 rating** and is enclosed by 360-degree shielding to maintain signal integrity next to PWM power conductors. An outer PUR sheath, molded grommets, and internal seals provide an **IP65 / IP67 protection rating**, allowing the assembly to operate on moving carriages or inside damp machine enclosures without separate conduit.

A hybrid plug with a **5 + 4-pin contact layout** terminates the cable; five contacts are reserved for EtherCAT P, while four contacts serve the power group. The mating shells use a **bayonet coupling** that provides vibration-resistant retention during axis acceleration. The power conductors have a cross-sectional area of **1.5 mm²** to accommodate the stated current limit, while the data pair uses 0.34 mm² conductors, equivalent to AWG 22, to

maintain an impedance of 100 ?. The connector uses **Key 1 coding** to prevent accidental mating with incompatible B17-size connectors. A leading protective earth contact establishes the ground connection before the other contacts engage, while the mechanical coding helps protect connected actuators from incorrect connections.

Specifications

Cable Jacket Material:	PUR (Polyurethane), halogen-free, flame-retardant, and oil-resistant	Cable Length:	10.0 m	Cage Material:	Steel
Coding Specification:	2 x 24 V DC + PE	Connector Layout:	5 + 4-pin	Dynamic Load Rating:	55.4 kN
Ethercat P Pins:	4	Ethernet Category:	Cat.5	Ethernet Shielding:	360°
Inner Diameter:	40 mm	Installation Size:	B17	Installation Tolerance:	Standard
Limiting Speed (grease):	8000 rpm	Limiting Speed (oil):	10000 rpm	Locking Mechanism:	Bayonet
Max Data Cross-section:	0.34 mm² (AWG22)	Max Power Cross-section:	1.5 mm²	Mechanical Coding:	Key 1
Number Of Rows:	Single row	Outer Diameter:	80 mm	Pe Contact:	Pre-leading
Power Pins:	4 + PE	Precision Class:	P0 (ISO Standard)	Protection Class:	IP65 / IP67
Rated Current (40 C):	16 A	Rated Voltage:	630 V AC / 850 V DC	Sealing:	Open
Static Load Rating:	50.7 kN	Temperature Range:	-25°C to +70°C (fixed installation), -5°C to +70°C (flexible installation)	Type:	Cylindrical Roller Bearing
Width:	23 mm	Last Verified:	10/25/2026 2:49 AM		

Contact Us

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