

Beckhoff — ZK Motor Cables

ZK7208-3031-A050 **In-Stock, Ships Today**

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The **ZK7208-3031-A050** motor cable is produced by Beckhoff as part of the ZK Motor Cables series. Intended for servo installations, it combines power conductors, feedback pairs, and a protective earth conductor in one assembly, allowing drive controllers to supply energy and collect position data without separate wiring looms. This preterminated lead simplifies routing between cabinet-mounted amplifiers and moving axes, helping industrial automation systems maintain precise motor coordination while reducing assembly time on the shop floor.

With a total length of **5.00 m**, the cable can span typical machine frames while staying within drive parameter limits for line impedance. The cable has **4** shielded data cores for transmitting encoder feedback, and each core has a copper cross-sectional area of **0.34 mm²** (AWG22) to keep signal attenuation low over the full run. Installation interface size B17 matches the manufacturer's SpeedTec circular connectors, while mechanical coding 1 prevents connection to incompatible voltage groups. The power conductors have a cross-sectional area of **1.5 mm²**, supporting medium-output servomotors. The protective earth conductor uses a preleading contact so that the protective connection is established first when the cable is connected.

During operation, the armature phases may continuously carry up to **16 A** at 40 °C without requiring conductor derating. The nominal voltage capacity reaches **630 V AC/850 V DC**, allowing the cable to support inverter-fed three-phase supplies and suitable DC bus arrangements. The connector inserts have **4 + PE (5) power contacts** arranged according to the **2 x 24 V DC + PE** coding scheme. This contact arrangement keeps the auxiliary supply connections and protective earth organized within the connector. A molded housing and gasket system provide an

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IP65/IP67 protection rating, allowing installation on moving axes exposed to dust or washdown spray. The sealed connector design also helps prevent contaminants from reaching the electrical contacts during normal machine operation.

Specifications

Bore Diameter (d):	40 mm	Cable Length:	5.00 m	Cage Material:	Brass
Contact Angle:	30°	Data Contact Count:	4	Dynamic Load Rating (c):	21,200 N
Installation Size:	B17	Limiting Speed (grease):	10,000 rpm	Limiting Speed (oil):	14,000 rpm
Max Data Cross-section:	0.34 mm² (AWG22)	Max Power Cross-section:	1.5 mm²	Maximum Number of Bending Cycles:	3 million cycles (drag-chain suitable)
Mechanical Coding:	1	Minimum Bending Radius (Dynamic):	77 mm (7 × outer cable diameter)	Mounting Type:	Press Fit
Number Of Rows:	Single Row	Outer Diameter (d):	68 mm	Pe Contact Sequence:	Pre-leading
Power Contact Count:	4 + PE (5)	Precision Class:	P5	Protection Class:	IP65/IP67
Rated Current (40 °c):	16 A	Rated Voltage:	630 V AC/850 V DC	Sealing:	Open (No Seal)
Static Load Rating (c0):	13,300 N	Voltage Coding:	2 x 24 V DC + PE	Width (b):	15 mm
Last Verified:	10/25/2026 5:48 AM				

Contact Us

-  1620 Old Apex Road, Cary, NC 27513, USA
-  **Toll Free:** [1-888-551-3082](tel:1-888-551-3082)
-  **International:** [1-919-443-0207](tel:1-919-443-0207)
-  **Fax:** [1-919-867-6204](tel:1-919-867-6204)
-  **Email:** sales@wakeindustrial.com

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