

Beckhoff — ZK Motor Cables

ZK7208-3031-A020

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The **ZK7208-3031-A020** is a preassembled motor cable manufactured by Beckhoff for the ZK Motor Cables series. It combines drive power conductors with EtherCAT P signal lines in a single jacket, reducing wiring volume in control cabinets and along moving machine axes. The assembly links servo drives to rotary or linear motors while carrying an auxiliary power supply and deterministic fieldbus data required for synchronized motion in industrial automation. Its combined cable design also reduces the number of separate connections needed between compatible drives and motors.

Inside the cable, the power branch uses **two 24 V DC conductors plus protective earth**, providing auxiliary voltage leads and a dedicated grounding path for peripheral loads. Digital communication travels on twisted pairs with a cross-sectional area of **0.34 mm² (AWG 22)**, which supports low attenuation across high-frequency EtherCAT signals. The motor phase cores have a cross-sectional area of **1.5 mm²**, allowing continuous energy transfer without excessive resistive heating. The insulation and conductor spacing support a maximum system potential of **630 V AC or 850 V DC**, allowing the cable to operate in inverter and DC-link applications. An outer PUR sheath with molded gaskets provides an **IP65/IP67 protection rating**, preventing dust ingress and withstanding water jets found in packaging and food-processing equipment.

The connector has an installation size of **B17**, allowing the overmolded circular plug to seat directly on compatible Beckhoff servomotor ports. Its face contains **4 + PE (5) power contacts**, and the cable can carry up to **16 A at 40 °C** without derating. The connector also includes **four dedicated EtherCAT P contacts** for the differential

transmit and receive pairs used in deterministic network communication. The power cores are colored gray, green/yellow, black, blue, and brown, making the individual conductors easier to distinguish during installation and maintenance.

Specifications

Cable Length:	2.00 meters	Cage Material:	Polyamide	Coding Spec:	2 x 24 V DC + PE
Connector Type:	B17 plug, straight, male+female, pins 4+PE+4, EtherCAT-coded	Contact Angle:	60°	Data Cross-section:	0.34 mm² (AWG22)
Dynamic Load Rating:	52.0 kN	Ethercat P Contacts:	4	Inner Diameter:	40 mm
Installation Size:	B17	Material:	Bearing Steel	Mechanical Coding:	1
Mounting:	Face-to-Face	Outer Cable Diameter:	11.0 mm ± 0.2 mm	Outer Diameter:	80 mm
Power Contacts:	4 + PE (5)	Power Cross-section:	1.5 mm²	Power Pin Colors:	5=Gray;6=Green/Yellow;7=Black;8=Blue;9=Brown
Precision Class:	P4 (ISO Class 4)	Protection Class:	IP65/IP67	Rated Current (40 °c):	16 A
Rated Voltage:	630 V AC/850 V DC	Sealing:	Sealed on both sides	Static Load Rating:	57.5 kN
Type:	Ball Screw Support Bearing	Width:	21 mm	Last Verified:	10/24/2026 8:42 PM

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