

Technical data sheet

OCT hybrid cables for C-tracks

According to Beckhoff standard
Single-cable Hybrid SERVO motor lines



Identification

Type	ZK4800-8023-0100
Part No.	171523.1000
Beckhoff designation*	ZK4800-8023-0100
System	Beckhoff

Product version

Datasheet version	00
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Use/Application/Properties

Application	<ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• industrial- and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Halogen free• Talc free and silicone free• RoHS compliant

Technical data

Number of conductors/cross-section	(4G1.5+(2×1.0)+(2×AWG22))
Number of conductors	8
Outer Ø	13.2 mm

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Cable length	10 m
Rated voltage U_N	1000 V 80 °C
Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Insulation resistance	>500 MΩ
Temperature range fixed	-40 °C ... +80 °C
Temperature range moving	-25 °C ... +80 °C
Minimum bending radius fixed	5×D
Minimum bending radius moving	7.5×D
Cable used	111600
Product photo	The product photos are not to scale and do not represent detailed images of the respective products.

Construction

Number of conductors/cross-section	(4G1.5+(2×1.0)+(2×AWG22))
Number of conductors	8
Conductor	CU-wire bare
Conductor category	Finely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-
Control pair	colour-coded black, white with foil tape and braided shield
Conductor insulation	Special Polyolefin
Overall stranding	strands braided together
Overall wrapping	Fleece taping
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket material	Special PUR
Surface	matt, adhesion-free
Jacket color	orange RAL 2003

General

Note	max. cable lengths incl. extension based on Beckhoff standard without motor choke max. 25 m – 35 m with motor choke max. 50 – 100 m depending on servo system
Note	* Beckhoff article designations are registered trademarks of Beckhoff, and are for reference purposes only Special features: No minimum order quantity All intermediate lengths in steps of 0.5 m are available within a short time When ordering, please specify serial number and length key Additional types on request

Certifications/Standards

Certifications	cURus UL AWM 21223
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Burning behavior according to	IEC 60332-1 DIN EN 50265-2 VDE 0482 Part 265-2 UL 1581 Part 1080 VW-1 UL FT1
Halogen free according to	EN 50267-2-1