

readycable® measuring system cable, suitable for
Bosch Rexroth, RKG0065, basic cable PVC 10xd

MAT9741333



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10xd

- For medium-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Silicone-free
- Flame retardant
- Guarantee up to 4 years

Product description

Introducing the readycable® measuring system cable, designed for Bosch Rexroth applications. This medium-duty cable features a durable PVC outer jacket, making it oil resistant and flame retardant. It is silicone-free and suitable for both indoor and outdoor use in temperatures above 5°C. Perfect for storage and retrieval units, processing machines, and indoor cranes, this cable supports unsupported travel distances and gliding applications up to 10m. Upgrade your systems with reliable performance and versatility.

Connectors

Connector A	Plug-in connector, socket, 9-pin
Connector B	SUB-D pin 15-pin angled

Manufacturer attributes

Manufacturer Part No	RKG0065
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General properties

Number of cores and conductor nominal cross-section	(2x(2x0.25)+2x0.5)C
Outer diameter (d) max. mm	6.5 mm
Weight per km	54 kg/km
Copper index kg/km	34 kg/km



Electricity attributes

Nominal voltage	50V
UL Voltage Rating	300 V
Test voltage	500V

Properties and approvals

UV resistance	none
Oil resistance	Oil-resistant (according to DIN EN 50363-4-1), Class 2
Flame-retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame
Silicone-free	Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)
UL verified	Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
UL/CSA AWM	Style 10467 and 2464, 300 V, 80 °C
NFPA	According to NFPA 79-2018, chapter 12.9
Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
Cleanroom	According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1
CE	According to 2014/35/EU

Cable structure

Conductor	Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.
Core insulation	Mechanically high-quality TPE mixture.
Core stranding	According to measuring system specification
Conductor colours	according to measuring system specification
Core group 1 core structure	2x(2x0.25)
Core group 1 colour code	red/black, grey/pink
Core group 2 core structure	2x0.5
Element shield	Extremely bend-resistant, tinned copper shielding. Cover approx. 90% optical
Element jacket	TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
Overall shield	Extremely bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
Outer jacket	Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
Outer jacket colour	Yellow-green (comparable to RAL 6018)



Dynamic properties

Min. bend radius, e-chain (factor)	10 x d
Min. bend radius, e-chain	65 mm
Min. bend radius, flexible (factor)	8 x d
Min. bend radius, fixed (factor)	5 x d
Temperature e-chain®	+5°C up to +70°C
Temperature, flexible	-5°C to +70°C (according to DIN EN 60811-504)
Temperature, fixed	-15°C to +70°C (according to DIN EN 50305)
v max. unsupported (speed)	5 m/s
v max. gliding (speed)	3 m/s
a max. (acceleration)	30 m/s ²
travel length	Class 2
torsion	No torsion

Certificates and standards

