

readycable® measuring system cable, suitable for
Bosch Rexroth, RKG0041, basic cable PVC 15xd

MAT9441336



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15xd

- For flexing applications
- PVC outer jacket
- Not oil-resistant
- Silicone-free
- Flame retardant
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® measuring system cable, designed for Bosch Rexroth applications. This PVC cable is perfect for flexing applications and is ideal for indoor use, especially in wood and stone processing, packaging, and handling tasks. With a flame-retardant design and overall shielding, it ensures safety and reliability. Note that it is not oil-resistant and is silicone-free, making it a versatile choice for unsupported travels up to 10m. Upgrade your systems with this dependable cable solution.

Connectors

Connector A	Pin Connector 9-pol. AMP
Connector B	val_290

Manufacturer attributes

Manufacturer Part No	RKG0041
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General properties

Number of cores and conductor nominal cross-section	(4x(2x0.25)+2x0.5)C
Outer diameter (d) max. mm	8 mm
Weight per km	91 kg/km
Copper index kg/km	44 kg/km



Electricity attributes

Nominal voltage	50V
UL Voltage Rating	30 V
Test voltage	500V

Properties and approvals

UV resistance	none
Oil resistance	No oil resistance
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 1589 and 2560, 30 V, 60 °C
NFPA	According to NFPA 79-2018, chapter 12.9
Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
CE	According to 2014/35/EU

Cable structure

Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228)
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	4x(2x0.25)
Core group 1 colour code	brown/green, blue/violet, grey/pink, red/black
Core group 2 core structure	2x0.5
Element shield	Foil taping of optimised, flexible foil shield. Cover approx. 100% optical
Overall shield	Braiding made of tinned copper wires. Cover approx. 60% optical.
Outer jacket	Low-adhesion 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)	15 x d
Min. bend radius, e-chain	120 mm
Min. bend radius, flexible (factor)	12 x d
Min. bend radius, fixed (factor)	8 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)	3 m/s
a max. (acceleration)	20 m/s²
travel length	Class 1
torsion	No torsion

Certificates and standards

