

readycable® power cable suitable for Bosch  
Rexroth IKL0003, connecting cable with  
intermediate connector PVC 7.5xd

MAT9751358



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intermediate connector PVC 7.5xd

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

Product description

Introducing the readycable® power cable, designed specifically for Bosch Rexroth IKL0003 applications. This durable cable features a PVC outer jacket, making it suitable for heavy-duty use, with resistance to light oil and flame retardancy. Ideal for both indoor and outdoor environments above 5°C, it supports unsupported and gliding travels up to 100m. Perfect for storage and retrieval units, machining units, and indoor cranes, this cable combines reliability and performance in one robust solution.

Manufacturer attributes

|                      |                                     |
|----------------------|-------------------------------------|
| Manufacturer Part No | IKL0003                             |
| Cable type           | Connecting_cable_with_adapter_plugs |

Connectors

|             |                    |
|-------------|--------------------|
| Connector A | round plug, socket |
| Connector B | val_249            |

General properties

|                                                     |                      |
|-----------------------------------------------------|----------------------|
| Number of cores and conductor nominal cross-section | (4G1.0+2x(2x0.75)C)C |
| Outer diameter (d) max. mm                          | 13.5 mm              |
| Weight per km                                       | 269 kg/km            |
| Copper index kg/km                                  | 148 kg/km            |



## Electricity attributes

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**Nominal voltage**

600/1,000V (according to DIN VDE 0298-3)

**UL Voltage Rating**

1000 V



**Test voltage**

4000V (according to DIN EN 50395)



## Cable structure



**Conductor**

Stranded conductor in an especially bend-resistant version consisting of bare copper wires (according to DIN EN 60228).



**Core insulation**

Mechanically high-quality, especially low-capacity XLPE mixture.



**Core stranding**

Power cores with control pair elements wound with elements for high-tensile stresses.



**Conductor colours**

Power cores: Cores black with white digits, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L- 2 control pairs: cores black with white digits. 1st control wire: 5 2nd control wire: 6 3rd control wire: 7 4th control wire: 8

**Core group 1 core structure**

4G1.0

**Core group 2 core structure**

2x(2x0.75)C)C



**Element shield**

Extremely bend-resistant braiding made of tinned copper wires.

**Inner jacket**

PVC mixture adapted to suit the requirements in e-chains®.



**Overall shield**

Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%



**Outer jacket**

Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).

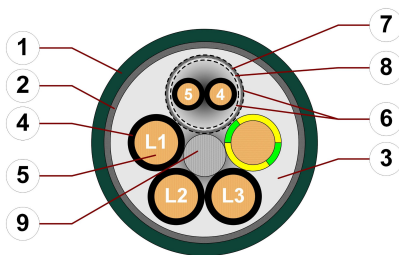


**Outer jacket colour**

Moss green (comparable to RAL 6005)

**CFRIP®**

Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure-extruded, oil-resistant PVC mixture
2. Overall shield: extremely flexible braiding made of tinned copper wires.
3. Inner jacket: pressure-extruded, gusset-filling PVC mixture
4. Core insulation: mechanically high-quality, especially low-capacitance TPE mixture
5. Conductor: particularly resistant to bending made of bare copper wires
6. Element banding: plastic foil
7. Element shield: extremely flexible tinned copper wire
8. Shield film: aluminium-coated plastic foil
9. Strain relief: high tensile strength centre element



## Properties and approvals

|                                                                                    |                        |                                                                                                                                                     |
|------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | Medium                                                                                                                                              |
|    | <b>Oil resistance</b>  | Oil-resistant (according to DIN EN 50363-4-1), Class 2                                                                                              |
|    | <b>Flame-retardant</b> | According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame                                                                            |
|    | <b>Silicone-free</b>   | Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)                                                           |
|    | <b>UL verified</b>     | Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"            |
|    | <b>UL/CSA AWM</b>      | Style 30052 und 20886, 1000V, 90°C                                                                                                                  |
|    | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                             |
|   | <b>REACH</b>           | In accordance with Regulation (EC) No. 1907/2006 (REACH)                                                                                            |
|  | <b>Lead-free</b>       | According to 2011/65/EU (RoHS-II/RoHS-III)                                                                                                          |
|  | <b>Cleanroom</b>       | 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 |
|  | <b>CE</b>              | According to 2014/35/EU                                                                                                                             |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 7.5 x d                                       |
|    | Min. bend radius, e-chain           | 101.25 mm                                     |
|    | Min. bend radius, flexible (factor) | 6 x d                                         |
|    | Min. bend radius, fixed (factor)    | 4 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)          | 10 m/s                                        |
|   | v max. gliding (speed)              | 5 m/s                                         |
|  | a max. (acceleration)               | 80 m/s <sup>2</sup>                           |
|  | travel length                       | Class 5                                       |
|  | torsion                             | No torsion                                    |



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions  
Further information: [chainflex® guarantee](#)

| Double strokes* | 5 million    | 7.5 million  | 10 million   |
|-----------------|--------------|--------------|--------------|
| Temperature,    | R min.       | R min.       | R min.       |
| from/to [°C]    | [Factor x d] | [Factor x d] | [Factor x d] |
| +5 / +15        | 10           | 11           | 12           |
| +15 / +60       | 7.5          | 8.5          | 9.5          |
| +60 / +70       | 10           | 11           | 12           |

\* Higher number of double strokes possible - use the service life calculation function on this page.

Certificates and standards

