

readycable® signal cable suitable for Kollmorgen /  
Danaher Motion 84972 (5m), basic cable, PVC  
7.5xd

MAT9320001



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basic cable, PVC 7.5xd

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

Product description

Introducing the readycable® signal cable, designed for Kollmorgen / Danaher Motion 84972. This 5m basic cable features a durable PVC outer jacket, making it ideal for heavy-duty applications. It is oil resistant, flame retardant, and silicone-free, ensuring reliability in various environments. Suitable for indoor and outdoor use at temperatures above 5°C, it's perfect for storage and retrieval units, packaging machines, and indoor cranes. Trust readycable® for your toughest cable needs.

Manufacturer attributes

|                      |                  |
|----------------------|------------------|
| Manufacturer Part No | 84972 (5 m)      |
| Cable type           | Connecting cable |

Connectors

|             |                    |
|-------------|--------------------|
| Connector A | SUB-D, pin         |
| Connector B | round plug, socket |

General properties

|                                                     |               |
|-----------------------------------------------------|---------------|
| Number of cores and conductor nominal cross-section | (4x(2x0.25))C |
| Outer diameter (d) max. mm                          | 7.5 mm        |
| Weight per km                                       | 76 kg/km      |
| Copper index kg/km                                  | 44 kg/km      |

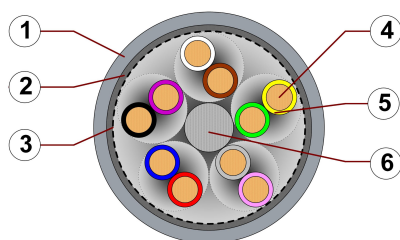


## Electricity attributes

|                                                                                  |                                                                       |                                        |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------|
|  | <b>Nominal voltage</b>                                                | 300/300V (according to DIN VDE 0298-3) |
|                                                                                  | <b>UL Voltage Rating</b>                                              | 300 V                                  |
|  | <b>Test voltage</b>                                                   | 1500V (according to DIN EN 50395)      |
|                                                                                  | <b>Maximum conductor resistance at 20°C [ <math>\Omega</math>/km]</b> | 79.0000                                |

## Cable structure

|                                                                                    |                            |                                                                                                                         |
|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
|    | <b>Conductor</b>           | Very finely stranded special conductors of a particularly bend-resistant design, made of bare copper wires.             |
|    | <b>Core insulation</b>     | Mechanically high-quality TPE mixture.                                                                                  |
|    | <b>Core stranding</b>      | Cores twisted in pairs with short pitch lengths, core pairs then wound with short pitch lengths.                        |
|   | <b>Conductor colours</b>   | Colour code according to DIN 47100                                                                                      |
|  | <b>Overall shield</b>      | Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%               |
|  | <b>Outer jacket</b>        | Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1). |
|  | <b>Outer jacket colour</b> | Silver grey (comparable to RAL 7001)                                                                                    |



1. Outer jacket: pressure extruded, oil-resistant PVC mixture
2. Overall shield: extremely flexible braiding made of tinned copper wires.
3. Banding: plastic foil
4. Conductor: very finely stranded special conductor of particularly bend-resistant design made of bare copper wires
5. Core insulation: mechanically high-quality TPE mixture
6. 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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"                  |
| <b>UL/CSA AWM</b>                                                                  |                        | Style 10493 and 2464, 300 V, 80 °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 1. The outer jacket material of this series complies with CF240.02.24 - 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           | 56.25 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)          | 5 m/s                                         |
|   | v max. gliding (speed)              | 3 m/s                                         |
|  | a max. (acceleration)               | 50 m/s <sup>2</sup>                           |
|  | travel length                       | Class 5                                       |
|  | torsion                             | No torsion                                    |



chainflex®Lifetime

Guaranteed service life for this series according to the guarantee conditions

More information: chainflex® Guarantee

|                     |            |             |            |
|---------------------|------------|-------------|------------|
| Double strokes*     | 5 million  | 7.5 million | 10 million |
| Temperature, R min. | R min.     | R min.      |            |
| from/to [°C]        | [factorxd] | [factorxd]  | [factorxd] |
| -25/-15             | 10         | 11          | 12         |
| -15/+70             | 7.5        | 8.5         | 9.5        |
| +70/+80             | 10         | 11          | 12         |

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

Certificates and standards

