

readycable® adapter cable suitable for Heidenhain

360 472-xx, linking cable TPE 7.5xd

MAT93901002



readycable® adapter cable suitable for

Heidenhain 360 472-xx, linking cable TPE 7.5xd

- For extremely heavy duty applications
- TPE outer jacket
- Oil-resistant (following DIN EN 60811-404), resistant to bio oils (following VDMA 24568 with Plantocut 8 S-MB tested by DEA)
- Halogen-free
- Silicone-free
- Hydrolysis and microbe-resistant
- PVC-free
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the readycable® adapter cable, designed for Heidenhain 360 472-xx applications. This robust linking cable features a TPE outer jacket, ensuring exceptional durability for extremely heavy-duty tasks. It offers outstanding resistance to oil, including bio-oils, and is suitable for both indoor and outdoor environments. With a halogen-free and PVC-free design, it's perfect for cleanroom and low-temperature applications. Trust the readycable® series for reliable performance in demanding conditions.

Manufacturer attributes

|                      |                  |
|----------------------|------------------|
| Manufacturer Part No | 360 472-xx       |
| Cable type           | Connecting cable |

Connectors

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

General properties

|                                                     |                                      |
|-----------------------------------------------------|--------------------------------------|
| Number of cores and conductor nominal cross-section | (2x(2x(2x0.14)))+(4x0.14)C+(4x0.5))C |
| Outer diameter (d) max. mm                          | 11 mm                                |
| Weight per km                                       | 127 kg/km                            |
| Copper index kg/km                                  | 78 kg/km                             |



Electricity attributes



Nominal voltage

50V

UL Voltage Rating

300 V

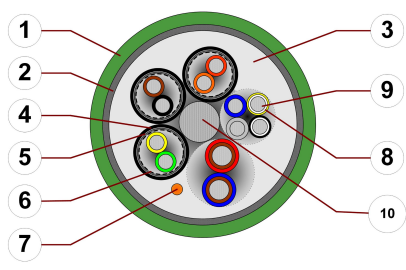


Test voltage

1500V (according to DIN EN 50395)



## Cable structure

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Conductor</b>           | Stranded conductor in an especially flexible design consisting of tinned copper wires (according to DIN EN 60228).         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Core insulation</b>     | Mechanically high-quality TPE mixture.                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Core stranding</b>      | According to measuring system specification                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Conductor colours</b>   | according to measuring system specification                                                                                |
| <b>Core group 1 core structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | 2x(2x(2x0.14))                                                                                                             |
| <b>Core group 1 colour code</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            | (brown/green)/(yellow/violet), (grey/pink)/(red/black)                                                                     |
| <b>Core group 2 core structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | (4x0.14)C                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Element shield</b>      | Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%                  |
| <b>Element jacket</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            | TPE mixture on pair shielding adapted to suit the requirements in e-chains®.                                               |
| <b>Inner jacket</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | TPE mixture adapted to suit the requirements in e-chains®.                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <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, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Outer jacket colour</b> | Yellow-green (comparable to RAL 6018)                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>CFRIP®</b>              | Strip cables faster: a tear strip is moulded into the inner jacket                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                                                                                                                            |
| <ol style="list-style-type: none"> <li>1. Outer jacket: pressure-extruded, halogen-free TPE mixture</li> <li>2. Overall shield: extremely flexible braiding made of tinned copper wires</li> <li>3. Inner jacket: pressure-extruded, gusset-filling TPE mixture</li> <li>4. Element jacket: mechanically high-quality TPE mixture</li> <li>5. Element shield: extremely flexible tinned copper wire</li> <li>6. Banding: plastic foil</li> <li>7. CFRIP: tear strip for faster stripping</li> <li>8. Core insulation: mechanically high-quality TPE mixture</li> <li>9. Conductor: stranded wire conductors in a particularly flexible design made of tinned copper wires</li> <li>10. Strain relief: high tensile strength centre element</li> </ol> |                            |                                                                                                                            |



## Properties and approvals

|                                                                                    |                |                                                                                                                                                     |
|------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|    | UV resistance  | Medium                                                                                                                                              |
|    | Oil resistance | Oil-resistant (according to DIN EN 60811-404), bio-oil-resistant (according to VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4             |
|    | Silicone-free  | Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)                                                           |
|    | Halogen-free   | According to DIN EN 60754                                                                                                                           |
|    | 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 AWM                                                                             |                | Style 10467 and 22355, 300 V, 80 °C                                                                                                                 |
|    | REACH          | In accordance with Regulation (EC) No. 1907/2006 (REACH)                                                                                            |
|    | Lead-free      | According to 2011/65/EU (RoHS-II/RoHS-III)                                                                                                          |
|   | Cleanroom      | According to ISO Class 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1 |
|  | DESINA         | According to VDW, DESINA standardisation                                                                                                            |
|  | CE             | According to 2014/35/EU                                                                                                                             |



## Dynamic properties

|                                                                                    |                                     |                                                |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 6.8 x d                                        |
|    | Min. bend radius, e-chain           | 74.8 mm                                        |
|    | Min. bend radius, flexible (factor) | 5 x d                                          |
|    | Min. bend radius, fixed (factor)    | 4 x d                                          |
|    | Temperature e-chain®                | -35°C up to +90°C                              |
|    | Temperature, flexible               | -50°C to +90°C (according to DIN EN 60811-504) |
|    | Temperature, fixed                  | -55°C to +90°C (according to DIN EN 50305)     |
|    | v max. unsupported (speed)          | 10 m/s                                         |
|   | v max. gliding (speed)              | 6 m/s                                          |
|  | a max. (acceleration)               | 100 m/s <sup>2</sup>                           |
|  | travel length                       | Class 6                                        |
|  | 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         |        | 12.5 million        |        |
|-----------------|---------------------|--------|---------------------|--------|---------------------|--------|
| Temperature,    | R min. [Factor x d] |        | R min. [Factor x d] |        | R min. [Factor x d] |        |
| from/to [°C]    | < 10 m              | ≥ 10 m | < 10 m              | ≥ 10 m | < 10 m              | ≥ 10 m |
| -35/-25         | 8.5                 | 10     | 9.5                 | 11     | 10.5                | 12     |
| -25/+80         | 6.8                 | 7.5    | 7.5                 | 8.5    | 8.8                 | 9.5    |
| +80/+90         | 8.5                 | 10     | 9.5                 | 11     | 10.5                | 12     |

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

Certificates and standards

