

readycable® hybrid cable suitable for SEW i0817

9484, basic cable, PUR 10xd

MAT9851453



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- For medium-duty applications
- PUR outer jacket
- Oil-resistant (according to DIN EN 50363-10-2)
- Halogen-free
- Silicone-free
- Flame retardant
- Offshore
- Coolant-resistant
- Hydrolysis and microbe-resistant
- Notch-resistant
- Overall shield
- PVC-free
- Guarantee up to 4 years

Product description

Introducing the readycable® hybrid cable, designed for medium-duty applications. This versatile cable features a durable PUR outer jacket that is oil-resistant, halogen-free, and flame retardant, making it perfect for both indoor and outdoor use (excluding direct sunlight). With excellent resistance to coolant, hydrolysis, and microbes, it ensures reliable performance in challenging environments. Ideal for processing and machine tools, this cable supports unsupported travel distances up to 10m, delivering flexibility and resilience.

Manufacturer attributes

|                      |             |
|----------------------|-------------|
| Manufacturer Part No | i0817 9484  |
| Cable type           | Basic cable |

Connectors

|             |                                |
|-------------|--------------------------------|
| Connector A | Connector, pin, 10+PE          |
| Connector B | Wire end sleeve/ring cable lug |



## General properties

|                                                     |                    |
|-----------------------------------------------------|--------------------|
| Number of cores and conductor nominal cross-section | (7x2.5+(2x0.75)C)C |
| Outer diameter (d) max. mm                          | 18 mm              |
| Weight per km                                       | 368 kg/km          |
| Copper index kg/km                                  | 263 kg/km          |

## Electricity attributes

|                                                                                                         |                                          |
|---------------------------------------------------------------------------------------------------------|------------------------------------------|
|  <b>Nominal voltage</b> | 600/1,000V (according to DIN VDE 0298-3) |
| <b>UL Voltage Rating</b>                                                                                | 1000 V                                   |
|  <b>Test voltage</b>    | 4000V (according to DIN EN 50395)        |

## Cable structure

|                                                                                                               |                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Conductor</b>             | Stranded conductor in a bend-resistant version consisting of bare copper wires (according to DIN EN 60228).                                          |
|  <b>Core insulation</b>      | Mechanically high-quality, especially low-capacity XLPE mixture.                                                                                     |
|  <b>Core stranding</b>      | Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.                                 |
|  <b>Conductor colours</b>   | According to servo hybrid specification.                                                                                                             |
| <b>Core group 1 core structure</b>                                                                            | 4G2.5                                                                                                                                                |
| <b>Core group 1 colour code</b>                                                                               | 3 black cores with white printing:<br><b>1st core:</b> U/L1/C/L+ <b>2nd core:</b> V/L2 <b>3rd core:</b> W/L3/D/L-<br>followed by a green-yellow core |
| <b>Core group 2 core structure</b>                                                                            | 3x2.5                                                                                                                                                |
|  <b>Element shield</b>      | Flexible braiding made of tinned copper wires.                                                                                                       |
|  <b>Overall shield</b>      | Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical                                                |
|  <b>Outer jacket</b>        | Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).   |
|  <b>Outer jacket colour</b> | Jet black (comparable to RAL 9005)                                                                                                                   |



## Dynamic properties

|                                                                                    |                                     |                                                |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 10 x d                                         |
|    | Min. bend radius, e-chain           | 180 mm                                         |
|    | Min. bend radius, flexible (factor) | 8 x d                                          |
|    | Min. bend radius, fixed (factor)    | 5 x d                                          |
|    | Temperature e-chain®                | -25°C up to +80°C                              |
|    | Temperature, flexible               | -40°C to +80°C (according to DIN EN 60811-504) |
|    | Temperature, fixed                  | -50°C to +80°C (according to DIN EN 50305)     |
|    | v max. unsupported (speed)          | 10 m/s                                         |
|   | v max. gliding (speed)              | 2 m/s                                          |
|  | a max. (acceleration)               | 50 m/s <sup>2</sup>                            |
|  | travel length                       | Class 2                                        |
|  | 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] |
| -25 / -15       | 12.5         | 13.5         | 14.5         |
| -15 / +70       | 10           | 11           | 12           |
| +70 / +80       | 12.5         | 13.5         | 14.5         |

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



## Properties and approvals

|  |                        |                                                                                                                                                           |
|--|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>UV resistance</b>   | Medium                                                                                                                                                    |
|  | <b>Oil resistance</b>  | Oil-resistant (according to DIN EN 50363-10-2), Class 3                                                                                                   |
|  | <b>Offshore</b>        | MUD-resistant according to NEK 606 - status 2018                                                                                                          |
|  | <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>Halogen-free</b>    | According to DIN EN 60754                                                                                                                                 |
|  | <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 10989 and 21223, 1000 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 CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1 |
|  | <b>DESINA</b>          | According to VDW, DESINA standardisation                                                                                                                  |
|  | <b>CE</b>              | According to 2014/35/EU                                                                                                                                   |



Certificates and standards

