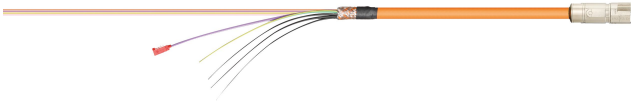


readycable® hybrid cable suitable for SEW 2812 3751 with Movilink DDI, connection cable, PUR 10xd

MAT9851484



readycable® hybrid cable suitable for SEW 2812 3751 with Movilink DDI, connection cable, PUR 10xd

- 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 SEW 2812 3751 with Movilink DDI. This versatile connection cable is perfect for medium duty applications, featuring a durable PUR outer jacket that resists oil, coolant, and harsh conditions. It's halogen and silicone-free, flame retardant, and suitable for both indoor and outdoor use (excluding direct sunlight). With its impressive hydrolysis and microbe resistance, this cable ensures reliable performance in various environments.

Manufacturer attributes

|                      |                  |
|----------------------|------------------|
| Manufacturer Part No | 2812 3751        |
| Cable type           | Connection cable |

Connectors

|             |                            |
|-------------|----------------------------|
| Connector A | Connector M23 socket 9-pin |
| Connector B | val_307                    |



## General properties

|                                                     |                                   |
|-----------------------------------------------------|-----------------------------------|
| Drive technology system                             | SEW                               |
| Number of cores and conductor nominal cross-section | (4G2.5+2x(2x1.0)C+HF50-0.9/2.95)C |
| Outer diameter (d) max. mm                          | 16.5 mm                           |
| Weight per km                                       | 354 kg/km                         |
| Copper index kg/km                                  | 232 kg/km                         |

## Electricity attributes

|                                                                                                         |                                          |
|---------------------------------------------------------------------------------------------------------|------------------------------------------|
|  <b>Nominal voltage</b> | 600/1,000V (according to DIN VDE 0298-3) |
| <b>UL Voltage Rating</b>                                                                                | 1 000 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 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 2 core structure</b>                                                                            | 2x(2x1.0)C                                                                                                                                         |
|  <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> | Pastel orange (comparable to RAL 2003)                                                                                                             |



## Properties and approvals

|                                                                                    |                 |                                                                                                                                                           |
|------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | UV resistance   | Medium                                                                                                                                                    |
|    | Oil resistance  | Oil-resistant (according to DIN EN 50363-10-2), Class 3                                                                                                   |
|    | Offshore        | MUD-resistant according to NEK 606 - status 2018                                                                                                          |
|    | 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)                                                                 |
|    | 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"                  |
|   | NFPA            | According to NFPA 79-2018, chapter 12.9                                                                                                                   |
|  | 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 CF77.UL.05.12.D - 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)  | 10 x d                                         |
|    | Min. bend radius, e-chain           | 165 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.

Certificates and standards

