

readycable® hybrid cable suitable for SEW 2812  
3859 with Movilink DDI, extension cable, PUR 10x d

MAT9851483



readycable® hybrid cable suitable for SEW  
2812 3859 with Movilink DDI, extension cable,  
PUR 10x d

- 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 3859 with Movilink DDI. This extension cable features a durable PUR outer jacket, making it perfect for medium duty applications. It offers exceptional resistance to oil, flames, and coolants, ensuring reliability in both indoor and outdoor settings. With its halogen-free and silicone-free composition, this cable is also hydrolysis and microbe-resistant, providing peace of mind for your projects. Upgrade your connections with this versatile and robust solution.

Manufacturer attributes

|                      |                 |
|----------------------|-----------------|
| Manufacturer Part No | 2812 3859       |
| Cable type           | Extension cable |

Connectors

|             |                            |
|-------------|----------------------------|
| Connector A | Connector M23 socket 9-pin |
| Connector B | M23 coupling, pin, 9-pin   |



## General properties

|                                                     |                                   |
|-----------------------------------------------------|-----------------------------------|
| Drive technology system                             | SEW                               |
| Number of cores and conductor nominal cross-section | (4G1.5+2x(2x1.0)C+HF50-0.9/2.95)C |
| Outer diameter (d) max. mm                          | 15.5 mm                           |
| Weight per km                                       | 304 kg/km                         |
| Copper index kg/km                                  | 191 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>Conductor colours</b>   | According to servo hybrid specification.                                                                                                           |
| <b>Core group 1 core structure</b>                                                                            | 4G1.5                                                                                                                                              |
| <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           | 155 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

