

readycable® adapter cable suitable for Allen  
Bradley 2090-CPWM4E2-14TR, basic cable PUR  
10xd

MAT9861792



readycable® adapter cable suitable for Allen  
Bradley 2090-CPWM4E2-14TR, basic cable  
PUR 10xd

- For medium-duty applications
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Notch-resistant
- Flame retardant
- Hydrolysis and microbe-resistant
- PVC and halogen-free
- Guarantee up to 4 years

Product description

Introducing the readycable® adapter cable, designed for the Allen Bradley 2090-CPWM4E2-14TR. This durable cable features a robust PUR outer jacket, making it ideal for medium-duty applications. Its oil-resistant, halogen-free, and flame-retardant properties ensure reliability in various environments, both indoors and outdoors. Perfect for processing and machine tools, this cable is also resistant to coolant, hydrolysis, and microbes, providing exceptional longevity and performance in demanding conditions.

Manufacturer attributes

|                      |                   |
|----------------------|-------------------|
| Manufacturer Part No | 2090-CPWM4E2-14TR |
| Cable type           | Basic cable       |

Connectors

|             |                    |
|-------------|--------------------|
| Connector A | coupling, pin      |
| Connector B | round plug, socket |



## General properties

|                                                     |           |
|-----------------------------------------------------|-----------|
| Number of cores and conductor nominal cross-section | (4G2.5)C  |
| Outer diameter (d) max. mm                          | 10.5 mm   |
| Weight per km                                       | 173 kg/km |
| Copper index kg/km                                  | 129 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 an especially 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>      | Cores wound with high tensile strength centre elements.                                                                                            |
|  <b>Conductor colours</b>   | cores black with white numbers, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L-                        |
| <b>Core group 1 core structure</b>                                                                            | (4G2.5)C                                                                                                                                           |
|  <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

|                                                                                    |                        |                                                                                                                                      |
|------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|    | <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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year" |
|   | <b>UL/CSA AWM</b>      | Style 30052 und 21209, 1000 V, 90°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>CE</b>              | According to 2014/35/EU                                                                                                              |



## Dynamic properties

|                                                                                    |                                     |                                                |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 10 x d                                         |
|    | Min. bend radius, e-chain           | 105 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 /-10        | 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

