

readycable® feedback cable suitable for Allen  
Bradley 2090-CFBM7E7-CEAFxx, extension cable  
PUR 7.5xd

MAT9741776



readycable® feedback cable suitable for Allen  
Bradley 2090-CFBM7E7-CEAFxx, extension  
cable PUR 7.5xd

- For extremely heavy 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
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® feedback cable, designed for the Allen Bradley 2090-CFBM7E7-CEAFxx. This extension cable features a durable PUR outer jacket, making it ideal for extremely heavy-duty applications. It offers excellent oil resistance and is both halogen and silicone-free. Suitable for indoor and outdoor use, it withstands harsh conditions while remaining flame retardant and notch-resistant. Perfect for storage units, machining tools, and more, this cable ensures reliable performance in demanding environments.

Manufacturer attributes

|                      |                     |
|----------------------|---------------------|
| Manufacturer Part No | 2090-CFBM7E7-CEAFxx |
| Cable type           | Extension cable     |

Connectors

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



General properties

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Number of cores and conductor nominal cross-section | (3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C |
| Outer diameter (d) max. mm                          | 10 mm                               |
| Weight per km                                       | 155 kg/km                           |
| Copper index kg/km                                  | 88 kg/km                            |

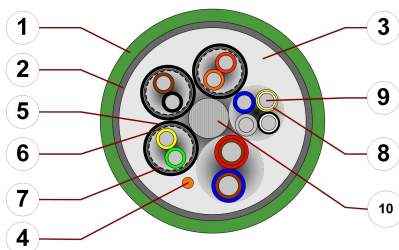
Electricity attributes

|                                                                                  |                   |       |
|----------------------------------------------------------------------------------|-------------------|-------|
|  | Nominal voltage   | 50V   |
|                                                                                  | UL Voltage Rating | 300 V |
|  | Test voltage      | 500V  |



## 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>                                                 |                            | 3x(4x0.14)                                                                                                                                         |
| <b>Core group 1 colour code</b>                                                    |                            | black/red/white-black/white-red, green/blue/white-green/white-blue, yellow/brown/white-yellow/white-brown                                          |
| <b>Core group 2 core structure</b>                                                 |                            | (2x0.14+2x0.34)                                                                                                                                    |
|    | <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, 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> | Yellow-green (comparable to RAL 6018)                                                                                                              |
| <b>CFRIP®</b>                                                                      |                            | Strip cables faster: a tear strip is moulded into the inner jacket                                                                                 |



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Overall shield: extremely flexible braiding made of tinned copper wires
4. Inner jacket: pressure-extruded, gusset-filling TPE mixture
5. CFRIP: tear strip for faster stripping
6. Element jacket: mechanically high-quality TPE mixture
7. Element shield: extremely flexible tinned copper wire
8. Banding: plastic foil
9. Core insulation: mechanically high-quality TPE mixture
10. Conductor: stranded wire conductors in a particularly flexible design made of tinned copper wires
11. Strain relief: high tensile strength centre element



## Dynamic properties

|                                                                                    |                                     |                                                |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 7.5 x d                                        |
|    | Min. bend radius, e-chain           | 75 mm                                          |
|    | Min. bend radius, flexible (factor) | 6 x d                                          |
|    | Min. bend radius, fixed (factor)    | 4 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)              | 5 m/s                                          |
|  | a max. (acceleration)               | 50 m/s <sup>2</sup>                            |
|  | travel length                       | Class 5                                        |
|  | 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       | 10           | 11           | 12           |
| -15 / +70       | 7.5          | 8.5          | 9.5          |
| +70 / +80       | 10           | 11           | 12           |

\* 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 10467 and 20233, 300 V, 80 °C                                                                                                                       |
|  | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                                   |
|  | <b>DNV</b>             | Type approval certificate TAE00003X4                                                                                                                      |
|  | <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

