

readycable® pulse encoder cable suitable for Baumüller 198969 (30m), pulse encoder basic cable, PVC 10xd

**MAT9290027**



**readycable® pulse encoder cable suitable for Baumüller 198969 (30m), pulse encoder basic cable, PVC 10xd**

- For medium-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Silicone-free
- Flame retardant
- Guarantee up to 4 years

**Product description**

Introducing the readycable® pulse encoder cable, designed for Baumüller 198969 applications. This 30m cable features a durable PVC outer jacket, making it suitable for medium-duty use. It is oil-resistant, silicone-free, and flame-retardant, ensuring reliability in various environments. Ideal for indoor and outdoor applications above 5°C, it excels in storage, retrieval units, and processing machines. Trust in the readycable® series for your pulse encoder needs.

**Manufacturer attributes**

|                      |               |
|----------------------|---------------|
| Manufacturer Part No | 198969 (30 m) |
| Cable type           | Basic cable   |

**Connectors**

|             |                         |
|-------------|-------------------------|
| Connector A | round plug, socket      |
| Connector B | open cable end, cut off |



General properties

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| Drive technology system                             | B&R, Baumüller      |
| Number of cores and conductor nominal cross-section | (5x(2x0.14)+2x0.5)C |
| Outer diameter (d) max. mm                          | 8 mm                |
| Weight per km                                       | 75 kg/km            |
| Copper index kg/km                                  | 45 kg/km            |

Electricity attributes

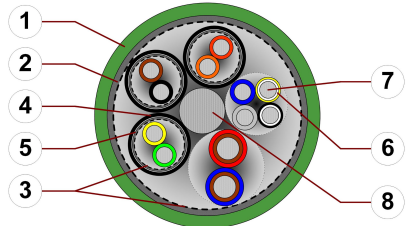
|                                                                                  |                 |       |
|----------------------------------------------------------------------------------|-----------------|-------|
|  | Nominal voltage | 50V   |
| UL Voltage Rating                            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



## Cable structure

|                                                                                    |                            |                                                                                                                         |
|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
|    | <b>Conductor</b>           | Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.           |
|    | <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>                                                 |                            | 5x(2x0.14)                                                                                                              |
| <b>Core group 1 colour code</b>                                                    |                            | brown/green, yellow/grey, white/violet, red/black, pink/blue                                                            |
| <b>Core group 2 core structure</b>                                                 |                            | 2x0.5                                                                                                                   |
|    | <b>Element shield</b>      | Extremely bend-resistant, tinned copper shielding. Cover approx. 90% optical                                            |
| <b>Element jacket</b>                                                              |                            | TPE mixture on pair shielding adapted to suit the requirements in e-chains®.                                            |
|   | <b>Overall shield</b>      | Extremely bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical         |
|  | <b>Outer jacket</b>        | Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1). |
|  | <b>Outer jacket colour</b> | Yellow-green (comparable to RAL 6018)                                                                                   |



1. Outer jacket: pressure extruded, oil-resistant PVC mixture
2. Overall shield: extremely flexible braiding made of tinned copper wires
3. Banding: plastic foil
4. Element jacket: mechanically high-quality TPE mixture
5. Element shield: extremely flexible tinned copper wire
6. Core insulation: mechanically high-quality TPE mixture
7. Conductor: very finely stranded special conductors of a particularly bend-resistant design, made of tinned copper wires.
8. Strain relief: high tensile strength centre element



## Properties and approvals

|                                                                                    |                        |                                                                                                                                                     |
|------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | none                                                                                                                                                |
|    | <b>Oil resistance</b>  | Oil-resistant (according to DIN EN 50363-4-1), Class 2                                                                                              |
|    | <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>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 10467 and 2464, 300 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 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1 |
|  | <b>CE</b>              | According to 2014/35/EU                                                                                                                             |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 10 x d                                        |
|    | Min. bend radius, e-chain           | 80 mm                                         |
|    | Min. bend radius, flexible (factor) | 8 x d                                         |
|    | Min. bend radius, fixed (factor)    | 5 x d                                         |
|    | Temperature e-chain®                | +5°C up to +70°C                              |
|    | Temperature, flexible               | -5°C to +70°C (according to DIN EN 60811-504) |
|    | Temperature, fixed                  | -15°C to +70°C (according to DIN EN 50305)    |
|    | v max. unsupported (speed)          | 5 m/s                                         |
|   | v max. gliding (speed)              | 3 m/s                                         |
|  | a max. (acceleration)               | 30 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,    | v max. [m/s] |         | a max. | Travel | R min. [Factor x d] | R min. [Factor x d] | R min. [Factor x d] |
| from/to [°C]    | unsupported  | gliding | [m/s²] | [m]    |                     |                     |                     |
| +5/+15          |              |         |        |        | 12.5                | 13.5                | 14.5                |
| +15 / +60       | 5            | 3       | 30     | ≤ 10   | 10                  | 11                  | 12                  |
| +60 / +70       |              |         |        |        | 12.5                | 13.5                | 14.5                |

\* Higher number of double strokes possible - please ask for your individual calculation.

Certificates and standards

