

readycable® servo cable suitable for Baumüller

447853, 20A basic cable, PVC 7.5xd, Speedtec

MAT9295107



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

Product description

Introducing the readycable® servo cable, designed for Baumüller 447853 applications. This robust 20A basic cable features a durable PVC outer jacket, making it ideal for heavy-duty use. It is oil-resistant and flame-retardant, ensuring safety and longevity in various environments. Suitable for both indoor and outdoor applications above 5°C, it excels in unsupported and gliding travels up to 100m, perfect for storage and retrieval units, machining units, and indoor cranes. Trust in readycable® for reliable performance.

Manufacturer attributes

|                      |                           |
|----------------------|---------------------------|
| Manufacturer Part No | 447853                    |
| Cable type           | 20 A Basic cable SpeedTec |

Connectors

|             |                            |
|-------------|----------------------------|
| Connector A | Connector M23 socket 8-pin |
| Connector B | open cable end, cut off    |

General properties

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| Number of cores and conductor nominal cross-section | (4G2.5+2x(2x1.5)C)C |
| Outer diameter (d) max. mm                          | 17 mm               |
| Weight per km                                       | 434 kg/km           |
| Copper index kg/km                                  | 254 kg/km           |



## Electricity attributes

|                   |                                          |
|-------------------|------------------------------------------|
| Nominal voltage   | 600/1,000V (according to DIN VDE 0298-3) |
| UL Voltage Rating | 1000 V                                   |
| Test voltage      | 4000V (according to DIN EN 50395)        |

## Cable structure

|                             |                                                                                                                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor                   | Stranded conductor in an especially bend-resistant version consisting of bare copper wires (according to DIN EN 60228).                                                                                                                                                 |
| Core insulation             | Mechanically high-quality, especially low-capacity XLPE mixture.                                                                                                                                                                                                        |
| Core stranding              | Power cores with control pair elements wound with elements for high-tensile stresses.                                                                                                                                                                                   |
| Conductor colours           | Power cores: Cores black with white digits, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L- 2 control pairs: cores black with white digits. 1st control wire: 5 2nd control wire: 6 3rd control wire: 7 4th control wire: 8 |
| Core group 1 core structure | 4G2.5                                                                                                                                                                                                                                                                   |
| Core group 2 core structure | 2x(2x1.5)C)C                                                                                                                                                                                                                                                            |
| Element shield              | Extremely bend-resistant braiding made of tinned copper wires.                                                                                                                                                                                                          |
| Inner jacket                | PVC mixture adapted to suit the requirements in e-chains®.                                                                                                                                                                                                              |
| Overall shield              | Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%                                                                                                                                                               |
| Outer jacket                | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).                                                                                                                                                                |
| Outer jacket colour         | Moss green (comparable to RAL 6005)                                                                                                                                                                                                                                     |
| CFRIP®                      | Strip cables faster: a tear strip is moulded into the inner jacket                                                                                                                                                                                                      |

## Properties and approvals

|                 |                                                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| UV resistance   | Medium                                                                                                                                              |
| Oil resistance  | Oil-resistant (according to DIN EN 50363-4-1), Class 2                                                                                              |
| 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)                                                           |
| UL verified     | Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"            |
| UL/CSA AWM      | Style 30052 und 20886, 1000V, 90°C                                                                                                                  |
| 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 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1 |
| CE              | According to 2014/35/EU                                                                                                                             |



## Dynamic properties

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Min. bend radius, e-chain (factor)  | 7.5 x d                                       |
| Min. bend radius, e-chain           | 127.5 mm                                      |
| Min. bend radius, flexible (factor) | 6 x d                                         |
| Min. bend radius, fixed (factor)    | 4 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)          | 10 m/s                                        |
| v max. gliding (speed)              | 5 m/s                                         |
| a max. (acceleration)               | 80 m/s²                                       |
| travel length                       | Class 5                                       |
| torsion                             | No torsion                                    |

## Certificates and standards

