

readycable® servo cable suitable for SEW 0199  
204X, extension cable (Amphenol), PUR 7.5xd

MAT9401003



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- For extremely heavy duty applications
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Notch-resistant
- Flame retardant
- Hydrolysis and microbe-resistant
- Guarantee up to 4 years

Product description

Introducing the readycable® servo cable, designed for SEW 0199 204X applications. This extension cable features a durable PUR outer jacket, making it perfect for heavy-duty use. It's oil-resistant, halogen-free, and flame retardant, ensuring reliability in both indoor and outdoor settings. With excellent resistance to coolant, hydrolysis, and microbes, this cable is ideal for storage and retrieval units, machining tools, and more. Experience unmatched performance and longevity with this versatile solution.

Manufacturer attributes

|                      |                 |
|----------------------|-----------------|
| Manufacturer Part No | 0199 204X       |
| Cable type           | Extension cable |

Connectors

|             |                                           |
|-------------|-------------------------------------------|
| Connector A | Amphenol connector housing, socket, 6-pin |
| Connector B | Amphenol coupling housing, pin, 6-pin     |

General properties

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| Number of cores and conductor nominal cross-section | (4G4.0+2x(2x1.5)C)C |
| Outer diameter (d) max. mm                          | 17.5 mm             |
| Weight per km                                       | 459 kg/km           |
| Copper index kg/km                                  | 308 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 | 4G4.0                                                                                                                                                                                                                                                                   |
|                                                                                    | Core group 2 core structure | 2x(2x1.5)C)C                                                                                                                                                                                                                                                            |
|  | Element shield              | Extremely bend-resistant braiding made of tinned copper wires.                                                                                                                                                                                                          |
|                                                                                    | Inner jacket                | TPE 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, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).                                                                                                                      |
|  | Outer jacket colour         | Pastel orange (comparable to RAL 2003)                                                                                                                                                                                                                                  |
|                                                                                    | CFRIP®                      | Strip cables faster: a tear strip is moulded into the inner jacket                                                                                                                                                                                                      |



## 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 10492 and 20234, 1000 V, 80 °C                                                                                                                      |
|  | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                                   |
|  | <b>DNV</b>             | Type approval certificate TAE00003XA                                                                                                                      |
|  | <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                                                                                                                                   |



## Dynamic properties

|                                                                                    |                                     |                                                |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 7.5 x d                                        |
|    | Min. bend radius, e-chain           | 131.25 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)               | 80 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.

Certificates and standards

