

readycable® power cable suitable for Siemens

6FX\_002-5CS62, basic cable PVC 15xd

MAT9461510



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- For flexing applications
- PVC outer jacket
- Overall shield
- Flame retardant
- Silicone-free
- Not oil-resistant
- Guarantee up to 4 years

Product description

Introducing the readycable® power cable, designed for Siemens 6FX\_002-5CS62. This flexible cable features a durable PVC outer jacket, ideal for indoor applications and unsupported travels up to 10m. It is flame retardant and silicone-free, making it a safe choice for wood and stone processing, packaging, and handling devices. Trust in the quality of readycable® for your flexing applications, ensuring reliable performance without the influence of oil.

Manufacturer attributes

|                      |               |
|----------------------|---------------|
| Manufacturer Part No | 6FX_002-5CS62 |
| Cable type           | Basic cable   |

Connectors

|             |                                   |
|-------------|-----------------------------------|
| Connector A | Sinamics connector/ring cable lug |
| Connector B | open cable end                    |

General properties

|                                                     |           |
|-----------------------------------------------------|-----------|
| Number of cores and conductor nominal cross-section | (4G10)C   |
| Outer diameter (d) max. mm                          | 18.5 mm   |
| Weight per km                                       | 577 kg/km |
| Copper index kg/km                                  | 458 kg/km |

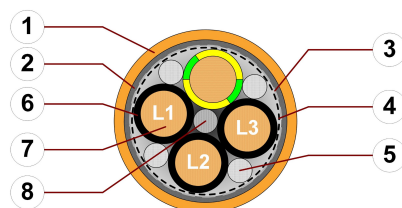


## Electricity attributes

|                                                                                  |                   |                                          |
|----------------------------------------------------------------------------------|-------------------|------------------------------------------|
|  | 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                   | Conductor consisting of bare copper wires (according to DIN EN 60228).                                                              |
|    | Core insulation             | Mechanically high-quality, especially low-capacitance TPE mixture.                                                                  |
|    | Core stranding              | Cores wound with an optimised pitch length.                                                                                         |
|    | Conductor colours           | 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- (4G10)C |
|                                                                                    | Core group 1 core structure |                                                                                                                                     |
|  | Overall shield              | Braiding made of tinned copper wires. Cover approx. 60% optical.                                                                    |
|  | Outer jacket                | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.                                                            |
|  | Outer jacket colour         | Pastel orange (comparable to RAL 2003)                                                                                              |



1. Outer jacket: pressure-extruded PVC mixture
2. Overall shield: braiding made of tinned copper wires
3. Shield film: aluminium-coated plastic foil
4. Banding: plastic foil
5. Filler: plastic yarns
6. Core insulation: mechanically high-quality, especially low-capacity TPE mixture
7. Conductor: strands consisting of bare copper wires
8. Strain relief: plastic core element



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 15 x d                                        |
|    | Min. bend radius, e-chain           | 277.5 mm                                      |
|    | Min. bend radius, flexible (factor) | 12 x d                                        |
|    | Min. bend radius, fixed (factor)    | 8 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)          | 3 m/s                                         |
|   | v max. gliding (speed)              | 0 m/s                                         |
|  | a max. (acceleration)               | 20 m/s <sup>2</sup>                           |
|  | travel length                       | Class 1                                       |
|  | torsion                             | No torsion                                    |



## chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

| Double strokes* | 1 million    | 3 million    | 5 million    |
|-----------------|--------------|--------------|--------------|
| Temperature,    | R min.       | R min.       | R min.       |
| from/to [°C]    | [Factor x d] | [Factor x d] | [Factor x d] |
| +5 / +15        | 17.5         | 18.5         | 19.5         |
| +15 / +60       | 15           | 16           | 17           |
| +60 / +70       | 17.5         | 18.5         | 19.5         |

\* Higher number of double strokes possible - use the service life calculation function on this page.

## Properties and approvals

|  |                 |                                                                                                                                          |
|--|-----------------|------------------------------------------------------------------------------------------------------------------------------------------|
|  | UV resistance   | none                                                                                                                                     |
|  | Oil resistance  | No oil resistance                                                                                                                        |
|  | 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 10492 and 2570, 1000 V, 80 °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)                                                                                               |
|  | CE              | According to 2014/35/EU                                                                                                                  |



## Certificates and standards

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