

readycable® power cable suitable for Siemens

6FX\_002-5CG01, basic cable PVC 15xd

MAT9461512



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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\_002-5CG01. This flexible cable features a durable PVC outer jacket, making it ideal for indoor applications and unsupported travels up to 10m. Its flame-retardant and silicone-free properties ensure safety in various environments, including wood and stone processing, packaging, and handling devices. Perfect for flexing applications, this cable is your reliable choice for quality and performance.

Manufacturer attributes

|                      |               |
|----------------------|---------------|
| Manufacturer Part No | 6FX_002-5CG01 |
| Cable type           | Basic cable   |

Connectors

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

General properties

|                                                     |           |
|-----------------------------------------------------|-----------|
| Number of cores and conductor nominal cross-section | (4G1.5)C  |
| Outer diameter (d) max. mm                          | 9 mm      |
| Weight per km                                       | 119 kg/km |
| Copper index kg/km                                  | 82 kg/km  |

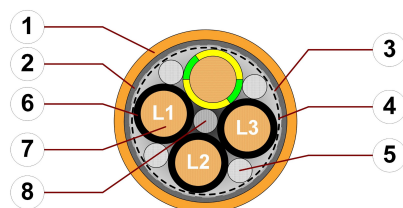


## Electricity attributes

|                                                                                  |                   |                                          |
|----------------------------------------------------------------------------------|-------------------|------------------------------------------|
|  | 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- (4G1.5)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



## Properties and approvals

|                                                                                    |                        |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | none                                                                                                                                     |
|    | <b>Oil resistance</b>  | No oil resistance                                                                                                                        |
|    | <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: "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 10492 and 2570, 1000 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>CE</b>              | According to 2014/35/EU                                                                                                                  |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 15 x d                                        |
|    | Min. bend radius, e-chain           | 135 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.

Certificates and standards

