

readycable® power cable suitable for Siemens

6FX_002-5BL03, basic cable, PVC 7.5 x d

MAT9711502



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

Product description

Introducing the readycable® power cable, designed specifically for Siemens 6FX_002-5BL03. This basic cable features a durable PVC outer jacket and is perfect for medium duty applications. With its flame-retardant properties and overall shield, it ensures safety and reliability. Ideal for indoor use, it supports unsupported travel distances and gliding applications up to 50m. Experience versatility in wood, stone processing, packaging, and device handling with this silicone-free solution.

Manufacturer attributes

Manufacturer Part No	6FX_002-5BL03
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	(3G0.75)C
Outer diameter (d) max. mm	8 mm
Weight per km	85 kg/km
Copper index kg/km	42 kg/km



Electricity attributes

	Nominal voltage	300/500V (according to DIN VDE 0298-3)
	UL Voltage Rating	300 V
	Test voltage	2000V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [Ω /km]	26.0000

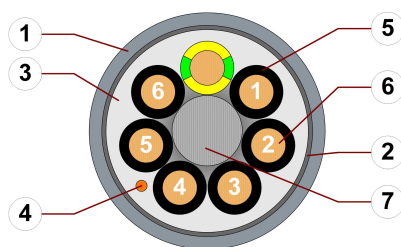
Properties and approvals

	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 10493 and 20200, 300 V, 60 °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 1. The outer jacket material of this series complies with CF130.15.07.UL - tested by IPA according to standard DIN EN ISO 14644-1
	CE	According to 2014/35/EU



Cable structure

	Conductor	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound in a layer with short pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
Core group 1 core structure		(3G0.75)C
	Inner jacket	PVC mixture adapted to suit the requirements in e-chains®.
	Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
	Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).
	Outer jacket colour	Silver grey (comparable to RAL 7001)
	CFRIP®	Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure-extruded PVC mixture
2. Overall shield: bend-resistant braiding of tinned copper wires
3. Inner jacket: pressure-extruded, gusset-filling PVC mixture
4. CFRIP: tear strip for faster stripping
5. Core insulation: mechanically high-quality TPE mixture
6. Conductor: finely stranded wires of bare copper wires
7. Strain relief: high tensile strength centre element
8. 12 cores or more: Bundles with optimised pitch length and direction



Dynamic properties

	Min. bend radius, e-chain (factor)	7.5 x d
	Min. bend radius, e-chain	60 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)	3 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	20 m/s²
	travel length	Class 4
	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, from/to [°C]	< 10m	≥ 10m	< 10m	≥ 10m	< 10m	≥ 10m
	R min. [Factorxd]		R min. [Factorxd]		R min. [Factorxd]	
+5 / +15	10	12.5	11	13.5	12	14.5
+15 / +60	7.5	10	8.5	11	9.5	12
+60 / +70	10	12.5	11	13.5	12	14.5

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

Certificates and standards

