

readycable® signal cable suitable for Siemens

6FX3_02-5BL03, basic cable, PVC 12.5xd

MAT9411501



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

Product description

Introducing the readycable® signal cable, designed specifically for Siemens 6FX3_02-5BL03 applications. This basic cable features a durable PVC outer jacket, making it ideal for flexing applications and indoor use. It is flame retardant and silicone-free, ensuring safety and reliability. Perfect for unsupported travels up to 10m, it excels in wood and stone processing, packaging, and various handling tasks. Experience quality and performance with this essential cable solution.

Connectors

Connector A	Cable socket, 2-pin
Connector B	Wire end sleeve

Manufacturer attributes

Manufacturer Part No	6FX3_02-5BL03
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General properties

Number of cores and conductor nominal cross-section	(2x0.75)C
Outer diameter (d) max. mm	6.5 mm
Weight per km	50 kg/km
Copper index kg/km	30 kg/km

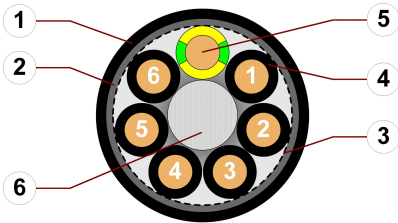


Electricity attributes

	Nominal voltage	300/500V
	UL Voltage Rating	300 V
	Test voltage	2000V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [$\mu\Omega$ /km]	26.0000

Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound with an optimised pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	(2x0.75)C
	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	Jet black (comparable to RAL 9005)



- 1. Outer jacket: pressure-extruded PVC mixture
- 2. Overall shield: braiding made of tinned copper wires
- 3. Banding: plastic foil
- 4. Core insulation: mechanically high-quality TPE mixture
- 5. Conductor: made of bare copper wires
- 6. Filler: plastic yarns



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 2464, 300 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



Dynamic properties

	Min. bend radius, e-chain (factor)	12.5 x d
	Min. bend radius, e-chain	81.25 mm
	Min. bend radius, flexible (factor)	10 x d
	Min. bend radius, fixed (factor)	7 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
	a max. (acceleration)	20 m/s ²
	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	15	16	17
+15 / +60	12.5	13.5	14.5
+60 / +70	15	16	17

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

Certificates and standards

