

readycable® signal cable suitable for Siemens

6FX_002-2DC36, basic cable, PVC 15 x d

MAT9741527



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

Product description

Introducing the readycable® signal cable, designed specifically for Siemens 6FX_002-2DC36 applications. This basic cable features a durable PVC outer jacket and is perfect for flexing applications. Ideal for indoor use, it excels in environments like wood and stone processing, packaging, and handling devices. With flame retardant properties and an overall shield, this silicone-free cable ensures safety and reliability without the influence of oil. Perfect for unsupported travels up to 10m.

Manufacturer attributes

Manufacturer Part No	6FX_002-2DC36
Cable type	Basic cable

Connectors

Connector A	Round connector M12 socket 8-pin
Connector B	connector, RJ45 Y-CONKIT IP67

General properties

Number of cores and conductor nominal cross-section	(2x(2x0.15)+(2x0.38))C
Outer diameter (d) max. mm	7.5 mm
Weight per km	58 kg/km
Copper index kg/km	41 kg/km



Electricity attributes

	Nominal voltage	50V
	UL Voltage Rating	30 V
	Test voltage	500V

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 1589 and 2560, 30 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)
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	15 x d
	Min. bend radius, e-chain	112.5 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 ²
	travel length	Class 1
	torsion	No torsion



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions
Further information: [chainflex® guarantee](#)

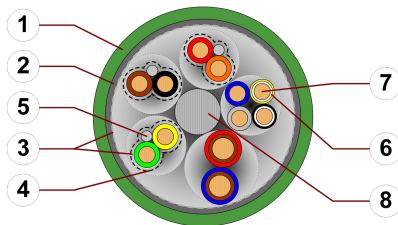
Double strokes*	1 million	3 million	5 million
Temperature,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
+5 / +15	17.5	18.5	19.5
+15 / +60	15	16	17
+60 / +70	17.5	18.5	19.5

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



Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228)
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	According to measuring system specification
	Conductor colours	according to measuring system specification
Core group 1 core structure		2x(2x0.15)
Core group 1 colour code		green/yellow, pink/blue
Core group 2 core structure		2x0.38
	Element shield	Foil taping of optimised, flexible foil shield. Cover approx. 100% optical
	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® (according to DIN EN 50363-4-1).
	Outer jacket colour	Yellow-green (comparable to RAL 6018)



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. Drain wire: stranded wire conductor made of tinned copper wires
6. Core insulation: mechanically high-quality TPE mixture
7. Conductor: strands consisting of bare copper wires
8. Strain relief: plastic core element

Certificates and standards

