

readycable® signal cable suitable for Siemens

6FX_002-1DC00, basic cable, PUR 7.5xd

MAT9070032



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- For extremely heavy duty applications
- PUR outer jacket
- Oil-resistant (according to DIN EN 50363-10-2)
- Halogen-free
- Silicone-free
- Flame retardant
- Offshore
- Coolant-resistant
- Hydrolysis and microbe-resistant
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® signal cable, designed for Siemens 6FX_002-1DC00. This durable cable features a PUR outer jacket, making it perfect for extremely heavy-duty applications. It offers exceptional resistance to oil, is halogen-free, and flame retardant. Suitable for both indoor and outdoor use (excluding direct sunlight), it's ideal for a variety of environments, including cleanrooms and low-temperature applications. Experience reliability with this robust cable that stands up to the toughest challenges.

Manufacturer attributes

Manufacturer Part No	6FX_002-1DC00
Cable type	Basic cable

Connectors

Connector A	val_250
Connector B	connector, RJ45 Y-CONKIT 11



General properties

Number of cores and conductor nominal cross-section	(2x(2x0.20)+(2x0.38))C
Outer diameter (d) max. mm	7.5 mm
Weight per km	69 kg/km
Copper index kg/km	44 kg/km

Electricity attributes

	Nominal voltage	50V
UL Voltage Rating		300 V
	Test voltage	500V



Cable structure



Conductor

Stranded conductor in an especially flexible design consisting of tinned 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(2x0.20)

Core group 1 colour code

green/yellow, pink/blue

Core group 2 core structure

(2x0.38)



Element shield

Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%

Element jacket

TPE mixture on pair shielding adapted to suit the requirements in e-chains®.

Inner jacket

TPE mixture adapted to suit the requirements in e-chains®.



Overall shield

Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%



Outer jacket

Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).

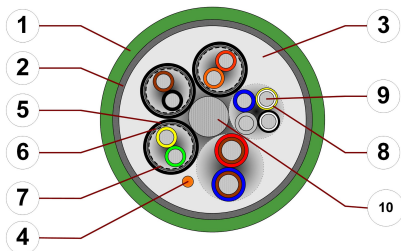


Outer jacket colour

Yellow-green (comparable to RAL 6018)

CFRIP®

Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Overall shield: extremely flexible braiding made of tinned copper wires
4. Inner jacket: pressure-extruded, gusset-filling TPE mixture
5. CFRIP: tear strip for faster stripping
6. Element jacket: mechanically high-quality TPE mixture
7. Element shield: extremely flexible tinned copper wire
8. Banding: plastic foil
9. Core insulation: mechanically high-quality TPE mixture
10. Conductor: stranded wire conductors in a particularly flexible design made of tinned copper wires
11. Strain relief: high tensile strength centre element



Dynamic properties

	Min. bend radius, e-chain (factor)	7.5 x d
	Min. bend radius, e-chain	56.25 mm
	Min. bend radius, flexible (factor)	6 x d
	Min. bend radius, fixed (factor)	4 x d
	Temperature e-chain®	-25°C up to +80°C
	Temperature, flexible	-40°C to +80°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +80°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	5 m/s
	a max. (acceleration)	50 m/s ²
	travel length	Class 5
	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,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
-25 / -15	10	11	12
-15 / +70	7.5	8.5	9.5
+70 / +80	10	11	12

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



Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
	Offshore	MUD-resistant according to NEK 606 - status 2018
	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)
	Halogen-free	According to DIN EN 60754
	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 20236, 30 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003X4
	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 CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1
	DESINA	According to VDW, DESINA standardisation
	CE	According to 2014/35/EU



Certificates and standards

