

readycable® measuring system cable suitable for
Siemens 6FX_002-2DC00, PUR 7.5xd

MAT9070029



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for Siemens 6FX_002-2DC00, PUR 7.5xd

- 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® measuring system cable, designed for Siemens 6FX_002-2DC00. This robust cable features a PUR outer jacket, making it perfect for extremely heavy-duty applications. Its oil-resistant, halogen-free, and flame-retardant properties ensure reliability in various environments, including indoor and outdoor settings (excluding direct sunlight). With resistance to coolant, hydrolysis, and microbes, this cable is ideal for storage units, machine tools, and low-temperature applications. Experience durability and performance with readycable®.

Connectors

Connector A	Y-ConPlug-21
Connector B	Y-ConPlug-21

Manufacturer attributes

Manufacturer Part No	6FX_002-2DC00
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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



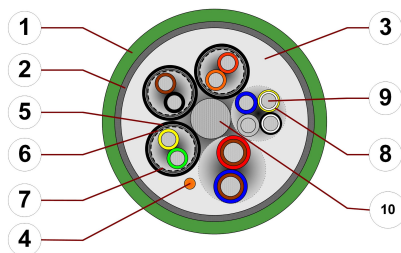
Electricity attributes

	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



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
	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



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.

Certificates and standards

