

readycable® hybrid cable, suitable for Siemens

6FX_002-8QN08 basic cable, PVC 10xd

MAT97515130



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- For medium-duty applications
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame retardant
- Guarantee up to 4 years

Product description

Introducing the readycable® hybrid cable, designed for Siemens 6FX_002-8QN08 applications. This versatile cable features a durable PVC outer jacket, making it suitable for medium duty use both indoors and outdoors above 5°C. It is oil resistant, silicone-free, and flame retardant, ensuring reliable performance in various environments. Ideal for wood and stone processing, packaging, and handling devices, this cable is your go-to solution for dependable connectivity.

Manufacturer attributes

Manufacturer Part No	6FX_002-8QN08
Cable type	Basic cable

Connectors

Connector A	M17 plug-in connector, socket, 10-pin
Connector B	val_280

General properties

Number of cores and conductor nominal cross-section	(4G0.75+(2x0.5)C)+(4xAWG26)C
Outer diameter (d) max. mm	11 mm
Weight per km	149 kg/km
Copper index kg/km	99 kg/km



Electricity attributes



Nominal voltage

600/1,000V (according to DIN VDE 0298-3)

UL Voltage Rating

300 V



Test voltage

4000V (according to DIN EN 50395)

Cable structure



Conductor

Stranded conductor in a bend-resistant version consisting of bare copper wires (according to DIN EN 60228).



Conductor colours

According to servo hybrid specification.



Element shield

Flexible braiding made of tinned copper wires.



Overall shield

Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical



Outer jacket

Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).



Outer jacket colour

Pastel orange (comparable to RAL 2003)



Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil-resistant (according to DIN EN 50363-4-1), Class 2
	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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	UL/CSA AWM	Style 10989 and 2570, 1000 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)
	Cleanroom	According to ISO Class 2. The outer jacket material of this series complies with CF5.10.07 - tested by IPA according to standard DIN EN ISO 14644-1
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	110 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, fixed (factor)	5 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)	10 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	50 m/s ²
	travel length	Class 2
	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,	v max. [m/s]		a max.	Travel	R min. [Factor x d]	R min. [Factor x d]	R min. [Factor x d]
from/to [°C]	unsupported	gliding	[m/s²]	[m]			
+5 / +15					12.5	13.5	14.5
+15 / +60	10	2	50	≤ 10	10	11	12
+60 / +70					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Certificates and standards

