

readycable® fibre optic cable suitable for AIDA
Profinet fibre optic cable, extension cable 7th axis,
pin/pin

MAT904117092



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axis, pin/pin

- Fibre optic plastic fibres (POF)
- For energy chain applications
- Guarantee up to 4 years

Product description

Introducing the readycable® fibre optic cable, designed for heavy-duty applications with top-notch EMC safety. This extension cable is perfect for indoor use, offering remarkable oil resistance and flexibility for unsupported travel distances up to 20m. Featuring durable fibre optic plastic fibres (POF) and a robust PUR outer jacket, it's suitable for energy chain applications in industries like wood processing and packaging. Experience reliability with a guarantee of 10 million double strokes.

Connectors

Connector A	AIDA Profinet LWL pin
Connector B	AIDA Profinet LWL pin

General properties

Fibre diameter approx.	980/1000
number of fibres	2
Fibre type	POF
Outer diameter (d) max. mm	7 mm
Weight per km	31 kg/km

Electricity attributes

Bandwidth [MHz x km] @ 650 nm	2
Attenuation [dB/km] @ 650 nm	200



Cable structure

Fibre optic cables



Core stranding

980/1000 µm fibre with PE insulation.

Fibre identification



Outer jacket

POF fibre with stranded high-tensile plastic reinforcement.

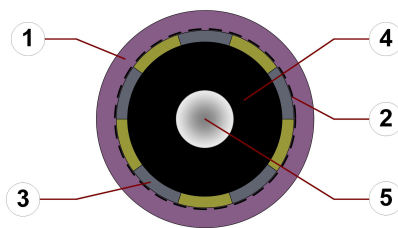
black, blue



Outer jacket colour

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

Red lilac (comparable to RAL 4001)



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Reinforcement: high tensile strength composite made of alternately embedded synthetic yarn and aramid yarn
4. Element jacket: pressure extruded TPE mixture
5. Fibre: plastic optical fibre (POF)

Properties and approvals



UV resistance

Medium



Oil resistance

Oil-resistant (according to DIN EN 50363-10-2), Class 3



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"



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	87.5 mm
	Min. bend radius, flexible (factor)	10 x d
	Min. bend radius, fixed (factor)	7 x d
	Temperature e-chain®	-20°C up to +60°C
	Temperature, flexible	-40°C to +60°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +60°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	5 m/s
	a max. (acceleration)	20 m/s ²
	travel length	Class 3
	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]
-20 / -10	15	16	17
-10/+50	12.5	13.5	14.5
+50/+60	15	16	17

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

Certificates and standards

