

readycable® encoder cable suitable for Baumer
Thalheim 11070180, basic cable PUR 10xd

MAT9453602



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- For medium-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
- Notch-resistant
- PVC-free
- Guarantee up to 4 years

Product description

Introducing the readycable® encoder cable, designed for Baumer Thalheim 11070180. This durable cable features a PUR outer jacket, making it ideal for medium-duty applications. It offers exceptional resistance to oil, is halogen-free, silicone-free, and flame retardant. Suitable for both indoor and outdoor use (excluding direct sunlight), it withstands unsupported travel distances and is perfect for processing and machine tools. Enjoy reliability with its hydrolysis and microbe resistance, ensuring longevity in various environments.

Connectors

Connector A	val_235
Connector B	open cable end

Manufacturer attributes

Manufacturer Part No	11070180
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General properties

Number of cores and conductor nominal cross-section	(5x(2x0.14)+2x0.5)C
Outer diameter (d) max. mm	8 mm
Weight per km	76 kg/km
Copper index kg/km	45 kg/km

Electricity attributes

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



Cable structure



Conductor

Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.



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

5x(2x0.14)

Core group 1 colour code

brown/green, yellow/grey, white/violet, red/black, pink/blue

Core group 2 core structure

2x0.5



Element shield

Extremely bend-resistant, tinned copper shielding. Cover approx. 90% optical

Element jacket

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



Overall shield

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



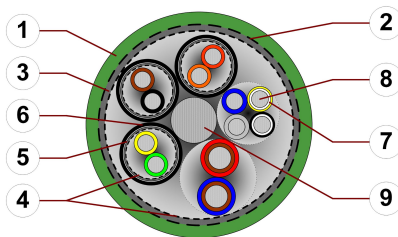
Outer jacket

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)



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Overall shield: extremely flexible braiding made of tinned copper wires
4. Banding: plastic foil
5. Element shield: extremely flexible tinned copper wire
6. Element jacket: mechanically high-quality TPE mixture
7. Core insulation: mechanically high-quality TPE mixture
8. Conductor: very finely stranded special conductors of a particularly bend-resistant design, made of tinned copper wires.
9. Strain relief: high tensile strength centre element



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	80 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, fixed (factor)	5 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)	5 m/s
	v max. gliding (speed)	3 m/s
	a max. (acceleration)	30 m/s²
	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,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
-25 / -15	12.5	13.5	14.5
-15 / +70	10	11	12
+70 / +80	12.5	13.5	14.5

* 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 10467 and 20233, 300 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

