

readycable® pulse encoder cable suitable for
Baumüller 378022 (50m), ECN1313EQN1325 basic
cable, PVC 10xd

MAT9290044



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- For medium-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Silicone-free
- Flame retardant
- Guarantee up to 4 years

Product description

Introducing the readycable® pulse encoder cable, designed for Baumüller 378022, with a generous length of 50m. This versatile cable is perfect for medium-duty applications, featuring a durable PVC outer jacket that is oil-resistant and flame-retardant. Ideal for both indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and is perfect for storage, retrieval units, and processing machines. Choose reliability with silicone-free construction for your next project.

Manufacturer attributes

Manufacturer Part No	378022 (50 m)
Cable type	Basic cable

Connectors

Connector A	round plug, socket
Connector B	SUB-D, pin



General properties

Drive technology system	B&R, Baumüller
Number of cores and conductor nominal cross-section	(5x(2x0.14)+2x0.5)C
Outer diameter (d) max. mm	8 mm
Weight per km	75 kg/km
Copper index kg/km	45 kg/km

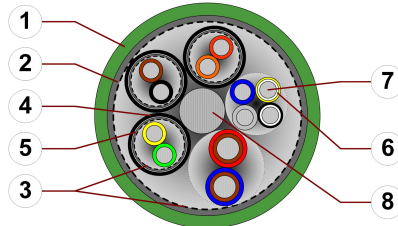
Electricity attributes

	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	Extremely 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	Yellow-green (comparable to RAL 6018)

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

	UV resistance	none
	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: "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 2464, 300 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	80 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)	5 m/s
	v max. gliding (speed)	3 m/s
	a max. (acceleration)	30 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	5	3	30	≤ 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

