

readycable® pulse encoder cable suitable for
Baumüller 448816, ECN1313/EQN1325 basic cable,
PVC 10xd, Speedtec

MAT9290069



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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 by Baumüller, designed for medium duty applications. This durable cable features a PVC outer jacket that is oil-resistant, silicone-free, and flame retardant. Ideal for both indoor and outdoor use in temperatures above 5°C, it supports unsupported travel distances and is perfect for storage and retrieval units, processing machines, and handling equipment. Experience reliability and performance with this versatile cable, suitable for various industrial environments.

Manufacturer attributes

Manufacturer Part No	448816
Cable type	ECN1313/EQN1325 Basic cable SpeedTec

Connectors

Connector A	Connector M23 socket 12-pin
Connector B	SUB-D connector 15-pin angled

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	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)

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/s²
travel length	Class 2
torsion	No torsion

Certificates and standards

