

Connection cable suitable for Keyence iOP-87232
PVC, 12.5xd

MAT904194312



Connection cable suitable for Keyence
iOP-87232 PVC, 12.5xd

- Profinet
- Star quad structure
- For energy chain applications
- PVC outer jacket
- Outer jacket colour yellow-green
- Bend factor 12.5xd
- Overall shield
- oil-resistant & flame-retardant
- 10 million double strokes guaranteed
- Guarantee up to 4 years

Product description

Introducing the Connecting Cable suitable for Keyence iOP-87232. This versatile cable features a durable PVC outer jacket in a vibrant yellow-green, designed for medium duty applications. It excels in light oil environments and is suitable for both indoor and outdoor use above 5°C. With a bend factor of 12.5xd and an overall shield, it ensures reliable performance for up to 20m in gliding applications. Ideal for bus connections in storage units, machining, and handling systems, it guarantees 10 million double strokes.

General properties

Bus system	Profinet
Number of cores and conductor nominal cross-section	(4x0.38)C
Outer diameter (d) max. mm	7 mm
Weight per km	67 kg/km
Copper index kg/km	33 kg/km

Electricity attributes

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



Cable structure

Conductor	Stranded conductor in an especially bend-resistant version consisting of bare copper wires (according to DIN EN 60228).
Core insulation	According to bus specification.
Conductor colours	white, orange, blue, yellow (star quad stranding)
Core group 1 core structure	4x0.38
Core group 1 colour code	white, orange, blue, yellow (star-quad stranding)
Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
Outer jacket	Low-adhesion 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	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-Listed	CMX UL 444, 75°C
UL/CSA AWM	Style 1598 and 2571, 30 V, 80 °C
NFPA	According to NFPA 79-2018, chapter 12.9
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 CF240.02.24 - 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)	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®	+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)	3 m/s
v max. gliding (speed)	2 m/s
a max. (acceleration)	30 m/s²
travel length	Class 3
torsion	No torsion



Certificates and standards

