

Connection cable suitable for Keyence iOP-87231
PVC, 12.5xd
MAT904194309



Connection cable suitable for Keyence
iOP-87231 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-87231, designed for medium duty applications. With a durable PVC outer jacket in a striking yellow-green, this cable is both oil-resistant and flame-retardant. It features a star quad structure, perfect for energy chain applications, and supports unsupported travel distances up to 20m. Ideal for indoor and outdoor use at temperatures above 5°C, it guarantees 10 million double strokes, making it a reliable choice for various machinery and handling tasks.

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

