

Connection cable suitable for Keyence iOP-87360
PVC, 12.5xd
MAT904194287



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iOP-87360 PVC, 12.5xd

Product description

Introducing the Connecting Cable suitable for Keyence iOP-87360, designed for medium duty applications. With a durable PVC outer jacket, this cable is oil-resistant and flame-retardant, ensuring reliable performance in various environments. Ideal for indoor and outdoor use at temperatures above 5°C, it supports travel distances up to 20m. Perfect for bus connections in storage, machining, and handling units, this cable guarantees up to 10 million double strokes, making it a dependable choice for your needs.

General properties

Bus system	Ethernet/CAT6/PoE
Number of cores and conductor nominal cross-section	(4x(2x0.15))C
Outer diameter (d) max. mm	7.5 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



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

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-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Core group 1 core structure	4x(2x0.15)
Core group 1 colour code	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
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	Red lilac (comparable to RAL 4001)

Dynamic properties

Min. bend radius, e-chain (factor)	12.5 x d
Min. bend radius, e-chain	93.75 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

