

Connection cable suitable for Keyence iOP-87359
PUR, 10xd
MAT904194286



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Product description

Introducing the Connecting Cable suitable for Keyence iOP-87359 PUR, 10 x d. Designed for heavy-duty applications, this cable excels in torsion movements, making it ideal for robots and 3D operations. With a robust PUR outer jacket, it offers exceptional resistance to oil, UV rays, and is flame-retardant. Enjoy the freedom of torsion $\pm 360^\circ$ with guaranteed durability for up to 10 million cycles. Perfect for both indoor and outdoor use, it's the reliable choice for handling and spindle drives.

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	32 kg/km

Electricity attributes

Nominal voltage	50V
UL Voltage Rating	30 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-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Core group 1 core structure	(4x(2x0.15))C
Core group 1 colour code	white-blue/blue, white-orange/orange, white-green/green, white-brown/brown
Overall shield	Torsion-resistant, tinned braided copper shield. Cover approx. 80% optical
Outer jacket	Low-adhesion, halogen-free PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).
Outer jacket colour	Steel blue (comparable to RAL 5011)

Properties and approvals

UV resistance	High
Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
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 1598 and 20236, 30 V, 80 °C
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 CF77.UL.05.12.D - 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	75 mm
Min. bend radius, flexible (factor)	10 x d
Min. bend radius, fixed (factor)	5 x d
Temperature e-chain®	-25°C up to +70°C
Temperature, flexible	-40°C to +70°C (according to DIN EN 60811-504)
Temperature, fixed	-50°C to +70°C (according to DIN EN 50305)
v max. unsupported (speed)	10 m/s
travel length	Class 8
torsion	Torsion ±360°, with 1 m cable length, Class 4

Certificates and standards

