

Connection cable suitable for Keyence iOP-87353,
basic cable, 7.5xd, PVC
MAT904194297



Connection cable suitable for Keyence
iOP-87353, basic cable, 7.5xd, PVC

- For heavy-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Flame retardant
- Silicone-free
- Guarantee up to 4 years

Product description

Introducing the Connection Cable suitable for Keyence iOP-87353, designed for heavy-duty applications. This reliable basic cable features a durable PVC outer jacket, ensuring oil resistance and flame retardancy. Ideal for both indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and gliding applications up to 100m. Perfect for storage and retrieval units, machining, packaging machines, and indoor cranes, this cable meets your demanding needs with ease.

Manufacturer attributes

Manufacturer Part No	iOP-87353
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General properties

Number of cores and conductor nominal cross-section	(6x(2x0.25))C
Outer diameter (d) max. mm	9 mm
Weight per km	105 kg/km
Copper index kg/km	62 kg/km



Electricity attributes



Nominal voltage

300/300V (according to DIN VDE 0298-3)

UL Voltage Rating

300 V



Test voltage

1500V (according to DIN EN 50395)

Cable structure



Conductor

Very finely stranded special conductors of a particularly bend-resistant design, made of bare copper wires.



Core insulation

Mechanically high-quality TPE mixture.



Core stranding

Cores twisted in pairs with short pitch lengths, core pairs then wound with short pitch lengths.



Conductor colours

Colour code according to DIN 47100



Overall shield

Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%



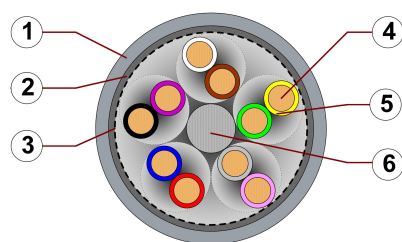
Outer jacket

Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).



Outer jacket colour

Silver grey (comparable to RAL 7001)



1. Outer jacket: pressure extruded, oil-resistant PVC mixture
2. Overall shield: extremely flexible braiding made of tinned copper wires.
3. Banding: plastic foil
4. Conductor: very finely stranded special conductor of particularly bend-resistant design made of bare copper wires
5. Core insulation: mechanically high-quality TPE mixture
6. Strain relief: high tensile strength centre element



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: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
UL/CSA AWM		Style 10493 and 2464, 300 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)	7.5 x d
	Min. bend radius, e-chain	67.5 mm
	Min. bend radius, flexible (factor)	6 x d
	Min. bend radius, fixed (factor)	4 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)	50 m/s ²
	travel length	Class 5
	torsion	No torsion



chainflex®Lifetime

Guaranteed service life for this series according to the guarantee conditions

More information: chainflex® guarantee

Double strokes* 5 million 7.5 million 10 million

Temperaturr, R min. R min. R min.

from/to [°C] [factor x d] [factor x d] [factor x d]

-25 / -15 10 11 12

-15 / +70 7.5 8.5 9.5

+70 / +80 10 11 12

* Higher number of double strokes possible - use the service life calculation function on this page.

Certificates and standards

