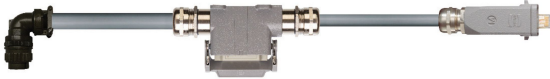


readycable® harnessed data cable, pulse encoder
for Fanuc robot M-900iB, RP7.2

MAT904117147



readycable® harnessed data cable, pulse
encoder for Fanuc robot M-900iB, RP7.2

- For medium-duty applications
- PUR outer jacket
- Overall shield
- Oil-resistant and coolant-resistant
- Flame retardant
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant
- Guarantee up to 4 years

Product description

Introducing the readycable harnessed data cable, designed specifically for the Fanuc robot M-900iB, RP7.2. This medium-duty cable features a durable PUR outer jacket, providing exceptional oil resistance and UV protection for both indoor and outdoor use. With its overall shield, it ensures reliable performance in various applications, including machining and packaging. Notably, it is notch-resistant, flame retardant, and free from halogens, PVC, and silicone, making it a safe and versatile choice for your automation needs.

Connectors

Connector A	HAN 3A, 4 poles
Connector B	HRS, angled, 10 poles

Manufacturer attributes

Manufacturer Part No	RP7.2
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General properties

Number of cores and conductor nominal cross-section	(3x0.34)C
Outer diameter (d) max. mm	5 mm
Weight per km	47 kg/km
Copper index kg/km	25 kg/km

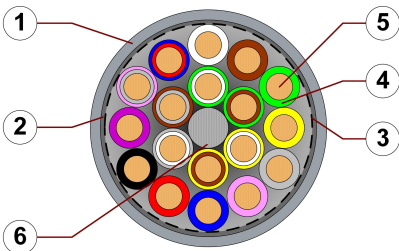


Electricity attributes

	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	The individual cores are wound in layers with a short pitch length.
	Conductor colours	Colour code according to DIN 47100
	Core group 1 core structure	(3 x 0.34)C
	Overall shield	Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
	Outer jacket	Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).
	Outer jacket colour	Window grey (comparable to RAL 7040)



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



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	50 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, fixed (factor)	5 x d
	Temperature e-chain®	-25°C up to +80°C
	Temperature, flexible	-40°C to +80°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +80°C (according to DIN EN 50305)
	v max. unsupported (speed)	3 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	20 m/s ²
	travel length	Class 4
	torsion	No torsion



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Double strokes*	5 million		7.5 million		10 million	
Temperature,	< 10m	≥ 10m	< 10m	≥ 10m	< 10m	≥ 10m
from/to [°C]	R min. [Factor x d]		R min. [Factor x d]		R min. [Factor x d]	
-25 / -15	12.5	15	13.5	16	14.5	17
-15 / +70	10	12.5	11	13.5	12	14.5
+70 / +80	12.5	15	13.5	16	14.5	17

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



Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
	Offshore	MUD-resistant according to NEK 606 - status 2018
	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)
	Halogen-free	According to DIN EN 60754
	UL verified	Certificate no. V293650: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
UL/CSA AWM		val_ul_csa_75
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003X3
	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

Certificates and standards

