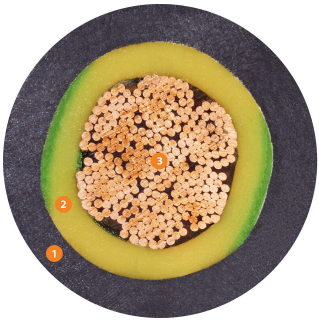


readycable® motor cable Fanuc M-900iB /
R-2000iC protective conductor
MAT904117145



readycable® motor cable Fanuc M-900iB /
R-2000iC protective conductor

- For extremely heavy duty applications
- TPE outer jacket
- Hydrolysis and microbe-resistant
- Flame retardant
- Silicone-free
- UV resistance: High
- Oil-resistant (following DIN EN 60811-404), resistant to bio oils (following VDMA 24568 with Plantocut 8 S-MB tested by DEA)
- Guarantee up to 4 years

Product description

Introducing the readycable® motor cable for Fanuc M-900iB / R-2000iC, designed for extremely heavy-duty applications. Its TPE outer jacket offers high resistance to oil, including bio-oils, and is UV-resistant for both indoor and outdoor use. This cable is hydrolysis and microbe-resistant, flame retardant, and silicone-free, ensuring durability in demanding environments. Perfect for storage and retrieval units, machining tools, and outdoor cranes, it supports unsupported travels over 400m.

Connectors

Connector A	Cable lug
Connector B	Ring cable lug

General properties

Number of cores and conductor nominal cross-section	1 G6.0
Outer diameter (d) max. mm	7 mm
Weight per km	83 kg/km
Copper index kg/km	61 kg/km

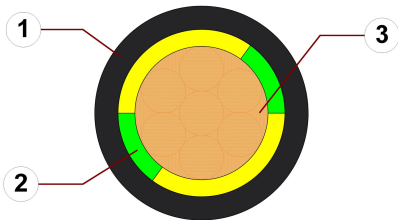


Electricity attributes

	Nominal voltage	600/1,000V (according to DIN VDE 0298-3)
	UL Voltage Rating	1000 V
	Test voltage	4000V (according to DIN EN 50395)

Cable structure

	Conductor	Conductor cable made of stranded wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Conductor colours	Green-yellow
	Core group 1 core structure	1G6.0
	Outer jacket	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Signal black (comparable to RAL 9004)



- 1. Outer jacket: pressure extruded, flame-retardant TPE mixture
- 2. Core insulation: mechanically high-quality TPE mixture
- 3. Conductor: braided conductor in a particularly flexible design made from bare copper wires



Properties and approvals

	UV resistance	High
	Oil resistance	Oil-resistant (according to DIN EN 60811-404), bio-oil-resistant (according to VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
	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 10492 and 21218, 1000 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003XC
	REACH	In accordance with Regulation (EC) No. 1907/2006 (REACH)
	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 CF34.UL.25.04.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)	7.5 x d
	Min. bend radius, e-chain	52.5 mm
	Min. bend radius, flexible (factor)	6 x d
	Min. bend radius, fixed (factor)	4 x d
	Temperature e-chain®	-35°C up to +90°C
	Temperature, flexible	-45°C to +90°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +90°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	6 m/s
	a max. (acceleration)	100 m/s ²
	travel length	Class 13
	torsion	Torsion ±90°, with 1m cable length, Class 2



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,	v max. [m/s]		a max.	Travel	R min. [Factor x d]	R min. [Factor x d]	R min. [Factor x d]
from/to [°C]	unsupported	gliding	[m/s²]	[m]			
-35 / -25					10	11	12
-25 / +80	10	6	100	≤ 400	7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Certificates and standards

