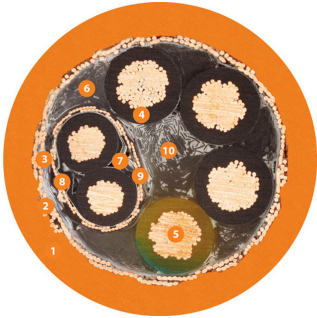


readycable® motor cable Kuka Quantec Fortec
Titan single axis 7th axis
MAT904105007



readycable® motor cable Kuka Quantec Fortec
Titan single axis 7th axis

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

Product description

Introducing the readycable® motor cable for Kuka Quantec Fortec Titan single axis 7th axis, designed for medium duty applications. This cable features a durable PUR outer jacket that is oil-resistant, halogen-free, and silicone-free. It is flame retardant and suitable for both indoor and outdoor use, ensuring reliable performance in various environments. With its coolant resistance and hydrolysis protection, this cable is perfect for processing and machine tools, making it a versatile choice for your needs.

General properties

Number of cores and conductor nominal cross-section	(4G4.0+(2x1.5)C)C
Outer diameter (d) max. mm	15 mm
Weight per km	328 kg/km
Copper index kg/km	260 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	Stranded conductor in an especially bend-resistant version consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality, especially low-capacity XLPE mixture.
	Core stranding	Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.
	Conductor colours	Power cores: cores black with white digits, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L- Control pair: Cores black with white numbers. 1st control wire: 4 2nd control wire: 5
	Core group 1 core structure	4G4.0
	Core group 2 core structure	(2x1.5)C
	Element shield	Flexible braiding made of tinned copper wires.
	Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
	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	Pastel orange (comparable to RAL 2003)



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	150 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)	10 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	50 m/s ²
	travel length	Class 2
	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,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
-25 /-10	12.5	13.5	14.5
-15 /+70	10	11	12
+70 / +80	12.5	13.5	14.5

* 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	Style 30052 und 21209, 1000 V, 90°C
	NFPA	According to NFPA 79-2018, chapter 12.9
	REACH	In accordance with Regulation (EC) No. 1907/2006 (REACH)
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	CE	According to 2014/35/EU

Certificates and standards

