

readycable® encoder cable suitable for Festo KDI-MC-M8-SUB-9-xxx, basic cable, PVC 10xd

MAT9722311



readycable® encoder cable suitable for Festo

KDI-MC-M8-SUB-9-xxx, basic cable, PVC 10xd

- Application: for medium stress
- Outer jacket: PVC
- Overall shield
- Oil resistance: oil-resistant (based on DIN EN 50363-4-1)
- Flame retardant
- Silicone-free
- [chainflex® class](#): 4.4.2.1

Product description

Introducing the readycable® encoder cable, designed specifically for Festo KDI-MC-M8-SUB-9-xxx applications. This medium-duty cable features a durable PVC outer jacket, providing excellent oil resistance and flame retardant properties. Ideal for both indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and can extend up to 50m for gliding applications. Perfect for storage and retrieval units, machining, packaging machines, and indoor cranes, this cable is your reliable connection solution.

Manufacturer attributes

Manufacturer Part No	KDI-MC-M8-SUB-9-xxx
Cable type	Basic cable

Connectors

Connector A	SUB-D, pin
Connector B	coupling, pin

General properties

Number of cores and conductor nominal cross-section	(3x0.25)C
Outer diameter (d) max. mm	5 mm
Weight per km	35 kg/km
Copper index kg/km	19 kg/km

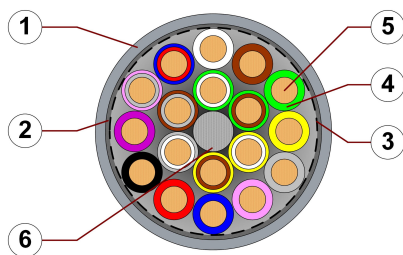


Electricity attributes

	Nominal voltage	300/300V (according to DIN VDE 0298-3)
	UL Voltage Rating	300 V
	Test voltage	1500V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [Ω /km]	79.0000

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	(3x0.25)C
	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. 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



Properties and approvals

	UV resistance	none
	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
	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, material/cable tested by IPA according to DIN EN ISO standard 14644-1
	CE	According to 2014/35/EU



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®	+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)	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. [Factorxd]		R min. [Factorxd]		R min. [Factorxd]	
+5 / +15	12.5	15	13.5	16	14.5	17
+15 / +60	10	12.5	11	13.5	12	14.5
+60 / +70	12.5	15	13.5	16	14.5	17

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

Certificates and standards

