

readycable® encoder cable suitable for Festo KES-MC-1-SUB-9-xxx, basic cable, PVC 10xd

MAT9722310



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- 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 KES-MC-1-SUB-9-xxx applications. This medium-duty cable features a durable PVC outer jacket, making it oil-resistant and flame-retardant for enhanced safety. Ideal for both indoor and outdoor use in temperatures above 5°C, it supports unsupported travel distances and is perfect for storage, retrieval, and handling units. Experience reliability and performance with this silicone-free solution, tailored for your industrial needs.

Manufacturer attributes

Manufacturer Part No	KES-MC-1-SUB-9-xxx
Cable type	Basic cable

Connectors

Connector A	val_260
Connector B	Wire end sleeve/ring cable lug

General properties

Number of cores and conductor nominal cross-section	(14x0.14)C
Outer diameter (d) max. mm	7 mm
Weight per km	75 kg/km
Copper index kg/km	41 kg/km

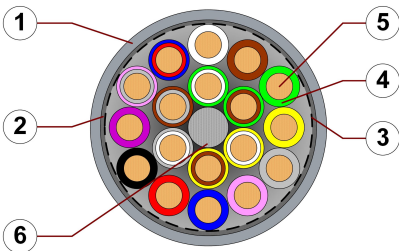


Electricity attributes

	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]	138.0000

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	(14x0.14)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	70 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

