

readycable® resolver cable suitable for Festo

NEBM-M23G12-E-xxx-N-S1G9, basic cable, PVC

10xd

MAT9742308



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NEBM-M23G12-E-xxx-N-S1G9, basic cable,

PVC 10xd

- For medium-duty applications
- PVC outer jacket
- Oil resistant (following DIN EN 50363-4-1)
- Silicone-free
- Flame retardant
- Guarantee up to 4 years

Product description

Introducing the readycable resolver cable, designed for Festo NEBM-M23G12-E-xxx-N-S1G9 applications. This medium-duty cable features a durable PVC outer jacket that is oil resistant and flame retardant, ensuring reliability in various environments. Ideal for indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and is perfect for storage units, packaging machines, and indoor cranes. Choose the readycable resolver cable for your essential connectivity needs.

Manufacturer attributes

Manufacturer Part No	NEBM-M23G12-E-xxx-N-S1G9
Cable type	Basic cable

Connectors

Connector A	SUB-D, pin
Connector B	round plug, socket



General properties

Drive technology system	Fagor, Festo, Heidenhain, Lenze, Siemens
Number of cores and conductor nominal cross-section	(3x(2x0.14)C+2x(0.5)C)C
Outer diameter (d) max. mm	9.5 mm
Weight per km	106 kg/km
Copper index kg/km	66 kg/km

Electricity attributes

	Nominal voltage	50V
UL Voltage Rating		300 V
	Test voltage	500V



Cable structure



Conductor

Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.



Core insulation

Mechanically high-quality TPE mixture.



Core stranding

According to measuring system specification



Conductor colours

according to measuring system specification

Core group 1 core structure

3x(2x0.14)C

Core group 1 colour code

green/yellow, black/brown, red/orange

Core group 2 core structure

2x(0.5)C



Element shield

Extremely bend-resistant, tinned copper shielding. Cover approx. 90% optical

Element jacket

TPE mixture on pair shielding adapted to suit the requirements in e-chains®.



Overall shield

Extremely bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical



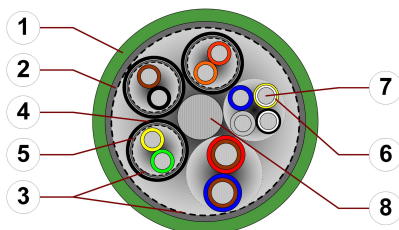
Outer jacket

Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).



Outer jacket colour

Yellow-green (comparable to RAL 6018)



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. Element jacket: mechanically high-quality TPE mixture
5. Element shield: extremely flexible tinned copper wire
6. Core insulation: mechanically high-quality TPE mixture
7. Conductor: very finely stranded special conductors of a particularly bend-resistant design, made of tinned copper wires.
8. 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 10467 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 2. The outer jacket material of this series complies with CF5.10.07 - 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)	10 x d
	Min. bend radius, e-chain	95 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)	5 m/s
	v max. gliding (speed)	3 m/s
	a max. (acceleration)	30 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,	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]			
+5/ +15					12.5	13.5	14.5
+15 / +60	5	3	30	≤ 10	10	11	12
+60 / +70					12.5	13.5	14.5

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

Certificates and standards

