

readycable® control cable suitable for Festo

KPWR-MC-1-SUB-9HC-xxx, basic cable, PVC 7.5xd

MAT9712320



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7.5xd

- For medium-duty applications
- PVC outer jacket
- Overall shield
- Flame retardant
- Silicone-free
- Not oil-resistant
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the readycable® control cable, expertly designed for medium duty applications. This reliable cable features a durable PVC outer jacket and an overall shield, ensuring optimal protection. Its flame retardant and silicone-free properties make it suitable for indoor use, while it supports unsupported travel distances of up to 50m for gliding applications. Ideal for wood and stone processing, packaging, and handling devices, this cable combines quality and versatility for your operational needs.

Manufacturer attributes

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

Connectors

Connector A	val_255
Connector B	Wire end sleeve/ring cable lug

General properties

Number of cores and conductor nominal cross-section	(3G1.5)C
Outer diameter (d) max. mm	9 mm
Weight per km	126 kg/km
Copper index kg/km	68 kg/km

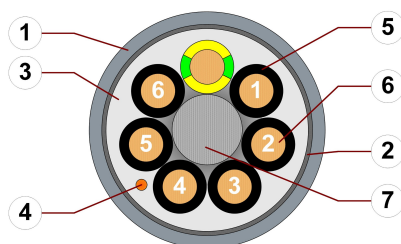


Electricity attributes

	Nominal voltage	300/500V (according to DIN VDE 0298-3)
	UL Voltage Rating	300 V
	Test voltage	2000V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [Ω /km]	13.3000

Cable structure

	Conductor	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound in a layer with short pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	(3G1.5)C
	Inner jacket	PVC mixture adapted to suit the requirements in e-chains®.
	Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
	Outer jacket	Low-adhesion 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)
	CFRIP®	Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure-extruded PVC mixture
2. Overall shield: bend-resistant braiding of tinned copper wires
3. Inner jacket: pressure-extruded, gusset-filling PVC mixture
4. CFRIP: tear strip for faster stripping
5. Core insulation: mechanically high-quality TPE mixture
6. Conductor: finely stranded wires of bare copper wires
7. Strain relief: high tensile strength centre element
8. 12 cores or more: Bundles with optimised pitch length and direction



Properties and approvals

	UV resistance	none
	Oil resistance	No oil resistance
	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 20200, 300 V, 60 °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. The outer jacket material of this series complies with CF130.15.07.UL - 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	67.5 mm
	Min. bend radius, flexible (factor)	6 x d
	Min. bend radius, fixed (factor)	4 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	10	12.5	11	13.5	12	14.5
+15 / +60	7.5	10	8.5	11	9.5	12
+60 / +70	10	12.5	11	13.5	12	14.5

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

Certificates and standards

