

readycable® motor cable suitable for Kollmorgen /
Danaher Motion 90083 (5m), basic cable, PVC
7.5xd

MAT9340063



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basic cable, PVC 7.5xd

- For heavy duty applications
- PVC outer jacket
- Overall shield
- Flame retardant
- Silicone-free
- UV resistance: medium
- Oil resistant (following DIN EN 50363-4-1)
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the readycable motor cable, perfect for heavy-duty applications. Designed for Kollmorgen / Danaher Motion 90083, this 5m cable features a durable PVC outer jacket, ensuring oil resistance and flame retardant properties. Its medium UV resistance makes it suitable for both indoor and outdoor use at temperatures above 5°C. Ideal for storage, retrieval, and machining units, this cable is built to withstand unsupported travel distances, providing reliable performance in demanding environments.

Manufacturer attributes

Manufacturer Part No	90083 (5 m)
Cable type	Basic cable

Connectors

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



General properties

Number of cores and conductor nominal cross-section	(4G1.5)C
Outer diameter (d) max. mm	10 mm
Weight per km	157 kg/km
Copper index kg/km	89 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)
Maximum conductor resistance at 20°C [μm]	13.3000



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

Cores wound with a short pitch length around a high tensile strength centre element.



Conductor colours

Cores black with white numbers, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2
3rd core: W / L3 / D / L- 4th core: 4 / N
(4G1.5)C

Core group 1 core structure



Inner jacket

PVC mixture adapted to suit the requirements in e-chains®.



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).



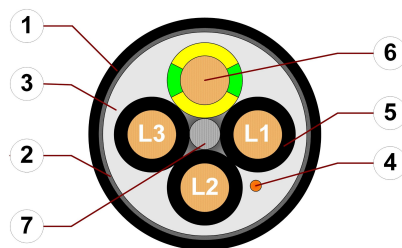
Outer jacket colour

Jet black (comparable to RAL 9005)



CFRIP®

Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure extruded, oil-resistant PVC mixture
2. Overall shield: extremely flexible braiding made 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, especially low-capacity XLPE mixture
6. Conductor: particularly flexible version consisting of bare copper wires
7. Strain relief: high tensile strength centre element



Properties and approvals

	UV resistance	Medium
	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: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	UL/CSA AWM	Style 30052 und 20886, 1000V, 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)
	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)	7.5 x d
	Min. bend radius, e-chain	75 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)	10 m/s
	v max. gliding (speed)	5 m/s
	a max. (acceleration)	80 m/s ²
	travel length	Class 5
	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]
+5 / +15	10	11	12
+15 / +60	7.5	8.5	9.5
+60 / +70	10	11	12

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

Certificates and standards

