

readycable® motor cable suitable for Allen Bradley

2090-XXXNPMP-16SXX, basic cable PVC 7.5xd

MAT9761710



readycable® motor cable suitable for Allen

Bradley 2090-XXXNPMP-16SXX, 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, designed for heavy-duty applications and compatible with Allen Bradley 2090-XXXNPMP-16SXX. This robust cable features a durable PVC outer jacket, providing flame retardant and oil-resistant properties, making it ideal for both indoor and outdoor use at temperatures above 5°C. With a medium UV resistance and overall shield, it ensures reliable performance in various environments. Perfect for storage and retrieval units, machining, and quick handling operations.

Connectors

Connector A	round plug, socket
Connector B	open cable end

Manufacturer attributes

Manufacturer Part No	2090-XXXNPMP-16SXX
----------------------	--------------------

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)

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: "The 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



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

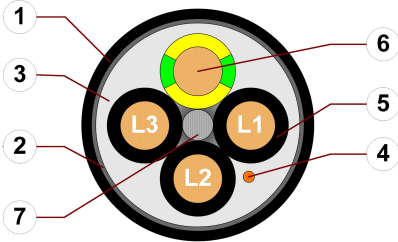


CE

According to 2014/35/EU



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



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

