

readycable® servo cable suitable for Allen Bradley

2090-CPBM7E7-14AFxx, extension cable PVC 15xd

MAT9451746



readycable® servo cable suitable for Allen

Bradley 2090-CPBM7E7-14AFxx, extension

cable PVC 15xd

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

Product description

Introducing the readycable® servo cable, designed specifically for Allen Bradley 2090-CPBM7E7-14AFxx. This PVC extension cable is perfect for flexing applications and features a flame-retardant outer jacket, ensuring durability in indoor environments. With an overall shield and silicone-free construction, it's ideal for wood and stone processing, packaging, and handling devices. Trust this cable for unsupported travels up to 10m, where reliability matters most.

Manufacturer attributes

Manufacturer Part No	2090-CPBM7E7-14AFxx
Cable type	Extension cable

Connectors

Connector A	round plug, socket
Connector B	coupling, pin

General properties

Number of cores and conductor nominal cross-section	(4G2.5+(2x1.5)C)C
Outer diameter (d) max. mm	13.5 mm
Weight per km	254 kg/km
Copper index kg/km	182 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

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 10492 and 2570, 1000 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)

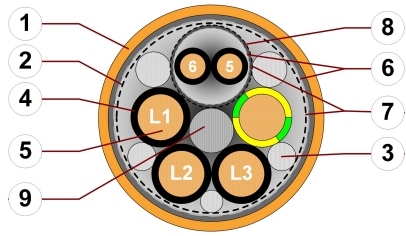


CE

According to 2014/35/EU



Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
	Core stranding	Power cores and control pair elements wound together in an optimised pitch length.
	Conductor colours	Power cores: 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- 1 control pair: Cores black with white numbers. 1st control wire: 5 2nd control wire: 6 4G2.5 (2x1.5)C/C
Core group 1 core structure		
Core group 2 core structure		
	Element shield	Foil taping of optimised, flexible foil shield.
	Overall shield	Braiding made of tinned copper wires. Cover approx. 60% optical.
	Outer jacket	Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Pastel orange (comparable to RAL 2003)
		1. Outer jacket: pressure-extruded PVC mixture 2. Overall shield: braiding made of tinned copper wires 3. Filler: plastic yarns 4. Core insulation: mechanically high-quality, especially low-capacitance TPE mixture 5. Conductor: strands consisting of bare copper wires 6. Shield film: aluminium-coated plastic foil 7. Banding: plastic foil 8. Element shield: tinned copper wires wrapped around it 9. Strain relief: plastic core element



Dynamic properties

	Min. bend radius, e-chain (factor)	15 x d
	Min. bend radius, e-chain	202.5 mm
	Min. bend radius, flexible (factor)	12 x d
	Min. bend radius, fixed (factor)	8 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)	0 m/s
	a max. (acceleration)	20 m/s ²
	travel length	Class 1
	torsion	No torsion



chainflex®Lifetime

Guaranteed service life for this series according to guarantee conditions

Further information: [chainflex® guarantee](#)

Double strokes*	1 million	3 million	5 million
Temperature,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
+5 / +15	17.5	18.5	19.5
+15 / +60	15	16	17
+60 / +70	17.5	18.5	19.5

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

Certificates and standards

