

readycable® hybrid cable suitable for Allen Bradley

2090-CSBM1E1-10AF, extension cable PUR 10xd

MAT9851729



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Bradley 2090-CSBM1E1-10AF, extension cable

PUR 10xd

- For medium-duty applications
- PUR outer jacket
- Oil-resistant (according to DIN EN 50363-10-2)
- Halogen-free
- Silicone-free
- Flame retardant
- Offshore
- Coolant-resistant
- Hydrolysis and microbe-resistant
- Notch-resistant
- Overall shield
- PVC-free
- Guarantee up to 4 years

Product description

Introducing the readycable® hybrid cable, designed for Allen Bradley 2090-CSBM1E1-10AF. This durable extension cable features a robust PUR outer jacket, making it perfect for medium-duty applications. It offers exceptional oil resistance, is halogen-free, silicone-free, and flame-retardant. Suitable for both indoor and outdoor use (without direct sunlight), this cable is also coolant, hydrolysis, and microbe-resistant, ensuring long-lasting performance in various environments. Choose reliability with readycable®.

Manufacturer attributes

Manufacturer Part No	2090-CSBM1E1-10AF
Cable type	Extension cable

Connectors

Connector A	round plug, socket
Connector B	round plug, socket



General properties

Number of cores and conductor nominal cross-section	(4G6.0+(2x1.0)C)+(2xAWG22)C)C
Outer diameter (d) max. mm	17.5 mm
Weight per km	475 kg/km
Copper index kg/km	343 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)

Cable structure

 Conductor	Stranded conductor in a 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	Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.
 Conductor colours	According to servo hybrid specification.
Core group 1 core structure	4G6.0
Core group 1 colour code	3 black cores with white printing: 1st core: U/L1/C/L+ 2nd core: V/L2 3rd core: W/L3/D/L- followed by a green-yellow core
Core group 2 core structure	(2x1.0)C
 Element shield	Flexible braiding made of tinned copper wires.
 Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical
 Outer jacket	Low-adhesion, halogen-free, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-10-2).
 Outer jacket colour	Pastel orange (comparable to RAL 2003)



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	175 mm
	Min. bend radius, flexible (factor)	8 x d
	Min. bend radius, fixed (factor)	5 x d
	Temperature e-chain®	-25°C up to +80°C
	Temperature, flexible	-40°C to +80°C (according to DIN EN 60811-504)
	Temperature, fixed	-50°C to +80°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	50 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,	R min.	R min.	R min.
from/to [°C]	[Factor x d]	[Factor x d]	[Factor x d]
-25 / -15	12.5	13.5	14.5
-15 / +70	10	11	12
+70 / +80	12.5	13.5	14.5

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



Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil-resistant (according to DIN EN 50363-10-2), Class 3
	Offshore	MUD-resistant according to NEK 606 - status 2018
	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)
	Halogen-free	According to DIN EN 60754
	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	val_ul_csa_50
	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 CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1
	DESINA	According to VDW, DESINA standardisation
	CE	According to 2014/35/EU



Certificates and standards

