

readycable® feedback cable suitable for Allen
Bradley 2090-CFBM7DF-CDAFxx, basic cable PUR
7.5xd

MAT9841750



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PUR 7.5xd

- For extremely heavy 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
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® feedback cable, specifically designed for Allen Bradley 2090-CFBM7DF-CDAFxx. This robust cable features a durable PUR outer jacket, making it ideal for extremely heavy-duty applications. It offers exceptional resistance to oil, coolant, and harsh environments while being halogen-free and flame retardant. Suitable for both indoor and outdoor use, this cable supports unsupported travel distances and is perfect for storage units, machine tools, and cleanroom settings. Choose reliability with readycable®.

Manufacturer attributes

Manufacturer Part No	2090-CFBM7DF-CDAFxx
Cable type	Basic cable

Connectors

Connector A	round plug, socket
Connector B	open cable end



General properties

Number of cores and conductor nominal cross-section	(3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C
Outer diameter (d) max. mm	10 mm
Weight per km	155 kg/km
Copper index kg/km	88 kg/km

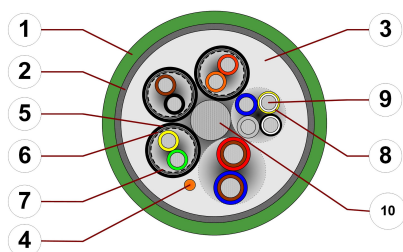
Electricity attributes

	Nominal voltage	50V
UL Voltage Rating		300 V
	Test voltage	500V



Cable structure

	Conductor	Stranded conductor in an especially flexible design consisting of tinned copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	According to measuring system specification
	Conductor colours	according to measuring system specification
Core group 1 core structure		3x(4x0.14)
Core group 1 colour code		black/red/white-black/white-red, green/blue/white-green/white-blue, yellow/brown/white-yellow/white-brown
Core group 2 core structure		(2x0.14+2x0.34)
	Element shield	Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
Element jacket		TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
Inner jacket		TPE 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, 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	Yellow-green (comparable to RAL 6018)
CFRIP®		Strip cables faster: a tear strip is moulded into the inner jacket



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Overall shield: extremely flexible braiding made of tinned copper wires
4. Inner jacket: pressure-extruded, gusset-filling TPE mixture
5. CFRIP: tear strip for faster stripping
6. Element jacket: mechanically high-quality TPE mixture
7. Element shield: extremely flexible tinned copper wire
8. Banding: plastic foil
9. Core insulation: mechanically high-quality TPE mixture
10. Conductor: stranded wire conductors in a particularly flexible design made of tinned copper wires
11. 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®	-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)	5 m/s
	a max. (acceleration)	50 m/s²
	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]
-25 / -15	10	11	12
-15 / +70	7.5	8.5	9.5
+70 / +80	10	11	12

* 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	Style 10467 and 20233, 300 V, 80 °C
	NFPA	According to NFPA 79-2018, chapter 12.9
	DNV	Type approval certificate TAE00003X4
	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

