

readycable® feedback cable suitable for Allen
Bradley i2090-CFBM7DF-CEAFxx, basic cable PUR
10xd

MAT9841774



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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
- Overall shield
- Notch-resistant
- PVC-free
- Guarantee up to 4 years

Product description

Introducing the readycable® feedback cable, designed for Allen Bradley i2090-CFBM7DF-CEAFxx. This medium-duty cable features a durable PUR outer jacket, ensuring exceptional oil resistance and flame retardant properties. It's suitable for both indoor and outdoor applications (without direct sunlight) and is hydrolysis and microbe-resistant. With a length of up to 10m for gliding applications, this cable is perfect for processing and machine tools, offering reliability in low-temperature environments.

Manufacturer attributes

Manufacturer Part No	i2090-CFBM7DF-CEAFxx
Cable type	Basic cable

Connectors

Connector A	Connector M23 socket 17-pin
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	9 mm
Weight per km	118 kg/km
Copper index kg/km	81 kg/km

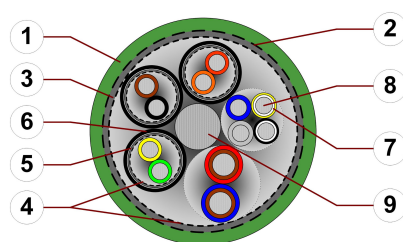
Electricity attributes

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



Cable structure

	Conductor	Very finely stranded special conductors of particularly bending resistant design made of tinned copper wires.
	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 bend-resistant, tinned copper shielding. Cover approx. 90% optical
Element jacket		TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
	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	Yellow-green (comparable to RAL 6018)



1. Outer jacket: pressure extruded PUR mixture
2. Banding: plastic fleece
3. Overall shield: extremely flexible braiding made of tinned copper wires
4. Banding: plastic foil
5. Element shield: extremely flexible tinned copper wire
6. Element jacket: mechanically high-quality TPE mixture
7. Core insulation: mechanically high-quality TPE mixture
8. Conductor: very finely stranded special conductors of a particularly bend-resistant design, made of tinned copper wires.
9. Strain relief: high tensile strength centre element



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	90 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)	5 m/s
	v max. gliding (speed)	3 m/s
	a max. (acceleration)	30 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	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

