

readycable® harnessed power cable for ABB
robots, PUR, 10 x d
MAT904128539



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- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Flame retardant
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant

Product description

Introducing the readycable® harnessed power cable for ABB robots, designed for reliability and performance. This cable features a durable PUR outer jacket that is shielded, oil-resistant, and coolant-resistant, making it ideal for demanding environments. It is also flame retardant, PVC and halogen-free, notch-resistant, and resistant to hydrolysis and microbes. Perfect for the seventh robot axis, this cable ensures seamless operation in various applications. Trust readycable® for your robotic needs.

Manufacturer attributes

Manufacturer Part No	R1MP
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General properties

Number of cores and conductor nominal cross-section	(18G2.5)C
Outer diameter (d) max. mm	25.5 mm
Weight per km	882 kg/km
Copper index kg/km	545 kg/km

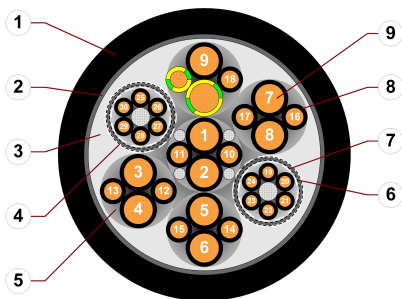


Electricity attributes

	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	Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core group 1 core structure	(18G2.5)C
	Core group 1 colour code	Black cores with white numbers 1-17, one green-yellow core
	Inner jacket	TPE mixture adapted to suit the requirements in e-chains®.
	Overall shield	Bend-resistant braiding made of tinned copper wires. Coverage approx. 50% 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	Jet black (comparable to RAL 9005)



- 1. Outer jacket: pressure extruded PUR mixture
- 2. Overall shield: flexible braiding made of tinned copper wires.
- 3. Inner jacket: pressure extruded, gusset-filling TPE mixture
- 4. Element banding: synthetic fleece over plastic foil
- 5. Bundles with optimised pitch length and direction
- 6. Element shield: bend-resistant braiding of tinned copper wires
- 7. Element banding: plastic foil over plastic fleece
- 8. Core insulation: mechanically high-quality TPE mixture
- 9. Conductor: fine stranded wire made of bare copper wires



Properties and approvals

	UV resistance	High
	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. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	NFPA	According to NFPA 79-2018, chapter 12.9
	REACH	In accordance with Regulation (EC) No. 1907/2006 (REACH)
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	10 x d
	Min. bend radius, e-chain	255 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)	3 m/s
	v max. gliding (speed)	2 m/s
	a max. (acceleration)	20 m/s ²
	torsion	No torsion

Certificates and standards

