

readycable® control cable suitable for Mitsubishi

Electric MR-BKS1CBL-xxx-A1-H, basic cable,

iguPUR 15xd

MAT9512002



readycable® control cable suitable for

Mitsubishi Electric MR-BKS1CBL-xxx-A1-H,

basic cable, iguPUR 15xd

- For flexing applications
- iguPUR outer jacket
- Flame retardant
- Silicone-free
- UV-resistant
- Oil-resistant (according to DIN EN 50363-10-2)
- Guarantee up to 4 years

Product description

Introducing the readycable® control cable, designed for Mitsubishi Electric MR-BKS1CBL-xxx-A1-H applications. This versatile basic cable features a robust iguPUR outer jacket, ensuring it is flame retardant, silicone-free, UV-resistant, and oil-resistant. Ideal for flexing applications and unsupported travels up to 10m, it performs well in both indoor and outdoor settings without direct sunlight. Perfect for processing and machine tools, this cable combines durability and flexibility for your needs.

Manufacturer attributes

Manufacturer Part No	MR-BKS1CBL-xxx-A1-H
Cable type	Basic cable

Connectors

Connector A	Plug-in connector socket angled 2-pin
Connector B	Wire end sleeve

General properties

Number of cores and conductor nominal cross-section	3G0.75
Outer diameter (d) max. mm	6 mm
Weight per km	46 kg/km
Copper index kg/km	24 kg/km

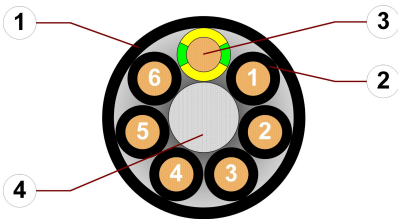


Electricity attributes

	Nominal voltage	300/500V
	UL Voltage Rating	600 V
	Test voltage	2000V (according to DIN EN 50395)
	Maximum conductor resistance at 20°C [Ω /km]	26.0000

Cable structure

	Conductor	Conductor consisting of bare copper wires (according to DIN EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	Cores wound with an optimised pitch length.
	Conductor colours	cores black with white numbers, one core green-yellow.
	Core group 1 core structure	3G0.75
	Outer jacket	Low-adhesion iguPUR mixture, adapted to suit the requirements in e-chains®.
	Outer jacket colour	Jet black (comparable to RAL 9005)



- 1. Outer jacket: pressure extruded iguPUR mixture
- 2. Core insulation: mechanically high-quality TPE mixture
- 3. Conductor: made of bare copper wires
- 4. Filler: plastic yarns



Properties and approvals

	UV resistance	Medium
Oil resistance		Oil-resistant (according to DIN EN 50363-10-2), Class 3
	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 11323 and 20940, 600 V, 80 °C
	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



Dynamic properties

	Min. bend radius, e-chain (factor)	12.5 x d
	Min. bend radius, e-chain	75 mm
	Min. bend radius, flexible (factor)	10 x d
	Min. bend radius, fixed (factor)	7 x d
	Temperature e-chain®	-20°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)	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]
-20 / -10	15	16	17
-10 / +70	12.5	13.5	14.5
+70 / +80	15	16	17

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

Certificates and standards

