

readycable® motor cable suitable for Mitsubishi

Electric MR-BKS1CBL-xxx-A2-H, basic cable, PVC

6.8xd

MAT9712004



readycable® motor cable suitable for

Mitsubishi Electric MR-BKS1CBL-xxx-A2-H,

basic cable, PVC 6.8xd

- For heavy-duty applications
- PVC outer jacket
- Flame retardant
- Silicone-free
- UV-resistant
- Oil resistant (following DIN EN 50363-4-1)
- CFRIP®
- Guarantee up to 4 years

Product description

Introducing the readycable® motor cable, designed for Mitsubishi Electric MR-BKS1CBL-xxx-A2-H. This basic cable features a durable PVC outer jacket, making it ideal for heavy-duty applications. It is flame retardant, UV-resistant, and oil resistant, ensuring reliable performance even in challenging environments. Suitable for both indoor and outdoor use at temperatures above 5°C, it supports unsupported travel distances and is perfect for storage, retrieval, and handling units. Trust readycable® for your toughest cable needs.

Manufacturer attributes

|                      |                     |
|----------------------|---------------------|
| Manufacturer Part No | MR-BKS1CBL-xxx-A2-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                          | 6.5 mm   |
| Weight per km                                       | 54 kg/km |
| Copper index kg/km                                  | 23 kg/km |

Electricity attributes

|                                                                                                         |                                        |
|---------------------------------------------------------------------------------------------------------|----------------------------------------|
|  <b>Nominal voltage</b> | 300/500V (according to DIN VDE 0298-3) |
| <b>UL Voltage Rating</b>                                                                                | 600 V                                  |
|  <b>Test voltage</b>    | 2000V (according to DIN EN 50395)      |
| <b>Maximum conductor resistance at 20°C [ <math>\mu</math>m]</b>                                        | 26.0000                                |



## Cable structure



### Conductor

Finely stranded conductor consisting of bare copper wires (according to DIN EN 60228).



### Core insulation

Mechanically high-quality PVC mixture.



### Core stranding

Cores wound in a layer with short pitch length.



### Conductor colours

cores black with white numbers, one core green-yellow.

### Core group 1 core structure

3G0.75



### Outer jacket

Low-adhesion, oil-resistant PVC mixture, adapted to suit the requirements in e-chains® (according to DIN EN 50363-4-1).



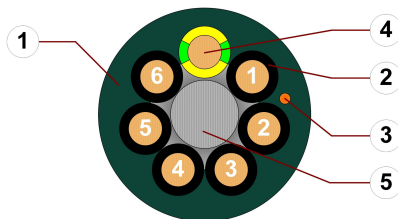
### Outer jacket colour

Moss green (comparable to RAL 6005)



### CFRIP®

Strip cables faster: a tear strip is moulded into the outer jacket



1. Outer jacket: pressure extruded, gusset-filling, oil-resistant PVC mixture
2. Core insulation: mechanically high-quality TPE or PVC mixture
3. CFRIP: tear strip for faster stripping
4. Conductor: fine stranded wire made of bare copper wires
5. Strain relief: high tensile strength centre element
6. 12 cores or more: Bundles with optimised pitch length and direction



## Properties and approvals

|                                                                                    |                        |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | Medium                                                                                                                                   |
| <b>Oil resistance</b>                                                              |                        | Oil-resistant (according to DIN EN 50363-4-1), Class 2                                                                                   |
|    | <b>Flame-retardant</b> | According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2/Horizontal Flame                                                                 |
|    | <b>Silicone-free</b>   | Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)                                                |
|    | <b>UL verified</b>     | Certificate no. V293650: "The igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year" |
|    | <b>UL/CSA AWM</b>      | Style 11113 and 2570, 600 V, 80 °C                                                                                                       |
|    | <b>NFPA</b>            | According to NFPA 79-2018, chapter 12.9                                                                                                  |
|    | <b>REACH</b>           | In accordance with Regulation (EC) No. 1907/2006 (REACH)                                                                                 |
|   | <b>Lead-free</b>       | According to 2011/65/EU (RoHS-II/RoHS-III)                                                                                               |
|  | <b>Cleanroom</b>       | According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1                                                 |
|  | <b>CE</b>              | According to 2014/35/EU                                                                                                                  |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 6.8 x d                                       |
|    | Min. bend radius, e-chain           | 44.2 mm                                       |
|    | Min. bend radius, flexible (factor) | 5 x d                                         |
|    | Min. bend radius, fixed (factor)    | 4 x d                                         |
|    | Temperature e-chain®                | +5°C up to +70°C                              |
|    | Temperature, flexible               | -5°C to +70°C (according to DIN EN 60811-504) |
|    | Temperature, fixed                  | -15°C to +70°C (according to DIN EN 50305)    |
|    | v max. unsupported (speed)          | 10 m/s                                        |
|   | v max. gliding (speed)              | 5 m/s                                         |
|  | a max. (acceleration)               | 80 m/s <sup>2</sup>                           |
|  | travel length                       | Class 5                                       |
|  | torsion                             | Torsion ±90°, with 1m cable length, Class 2   |



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,    | < 10m             | ≥ 10m | < 10m             | ≥ 10m | < 10m             | ≥ 10m |
| from/to [°C]    | R min. [Factorxd] |       | R min. [Factorxd] |       | R min. [Factorxd] |       |
| +5 / +15        | 7.5               | 10    | 8.5               | 11    | 9.5               | 12    |
| +15 / +60       | 6.8               | 7.5   | 7.8               | 8.5   | 8.8               | 9.5   |
| +60 / +70       | 7.5               | 10    | 8.5               | 11    | 9.5               | 12    |

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

Certificates and standards

