

readycable® motor cable suitable for Parker

iMOK43, basic cable PVC 15xd

MAT9452207



readycable® motor cable suitable for Parker

iMOK43, basic cable PVC 15xd

- For flexing applications
- PVC outer jacket
- Not oil-resistant
- Silicone-free
- Flame retardant
- Overall shield
- Guarantee up to 4 years

Product description

Introducing the readycable® motor cable, designed specifically for Parker iMOK43 applications. This flexible cable features a durable PVC outer jacket, making it ideal for indoor use and unsupported travels up to 10m. While not oil-resistant, it is silicone-free and flame retardant, ensuring safety and reliability in various environments such as wood processing, packaging, and handling devices. Choose the readycable® for dependable performance in your projects.

Manufacturer attributes

|                      |             |
|----------------------|-------------|
| Manufacturer Part No | iMOK43      |
| 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 | (4G2.5+(2x1.5)C)C |
| Outer diameter (d) max. mm                          | 13.5 mm           |
| Weight per km                                       | 254 kg/km         |
| Copper index kg/km                                  | 182 kg/km         |

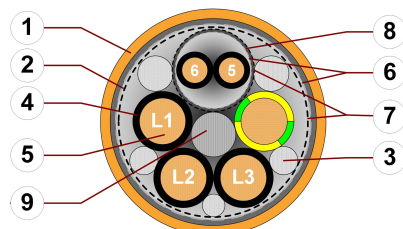


## Electricity attributes

|                                                                                  |                   |                                          |
|----------------------------------------------------------------------------------|-------------------|------------------------------------------|
|  | 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                   | Conductor consisting of bare copper wires (according to DIN EN 60228).                                                                                                                                                           |
|    | Core insulation             | Mechanically high-quality, especially low-capacitance TPE mixture.                                                                                                                                                               |
|    | Core stranding              | Power cores and control pair elements wound together in an optimised pitch length.                                                                                                                                               |
|    | Conductor colours           | Power cores: Cores black with white numbers, one core green-yellow. 1st core: U / L1 / C / L+ 2nd core: V / L2 3rd core: W / L3 / D / L- 1 control pair: Cores black with white numbers. 1st control wire: 5 2nd control wire: 6 |
|                                                                                    | Core group 1 core structure | 4G2.5                                                                                                                                                                                                                            |
|                                                                                    | Core group 2 core structure | (2x1.5)C)C                                                                                                                                                                                                                       |
|  | Element shield              | Foil taping of optimised, flexible foil shield.                                                                                                                                                                                  |
|  | Overall shield              | Braiding made of tinned copper wires. Cover approx. 60% optical.                                                                                                                                                                 |
|  | Outer jacket                | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®.                                                                                                                                                         |
|  | Outer jacket colour         | Pastel orange (comparable to RAL 2003)                                                                                                                                                                                           |



1. Outer jacket: pressure-extruded PVC mixture
2. Overall shield: braiding made of tinned copper wires
3. Filler: plastic yarns
4. Core insulation: mechanically high-quality, especially low-capacitance TPE mixture
5. Conductor: strands consisting of bare copper wires
6. Shield film: aluminium-coated plastic foil
7. Banding: plastic foil
8. Element shield: tinned copper wires wrapped around it
9. Strain relief: plastic core element



## Properties and approvals

|                                                                                    |                        |                                                                                                                                          |
|------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>UV resistance</b>   | none                                                                                                                                     |
|    | <b>Oil resistance</b>  | No oil resistance                                                                                                                        |
|    | <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 10492 and 2570, 1000 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>CE</b>              | According to 2014/35/EU                                                                                                                  |



## Dynamic properties

|                                                                                    |                                     |                                               |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
|    | Min. bend radius, e-chain (factor)  | 15 x d                                        |
|    | Min. bend radius, e-chain           | 202.5 mm                                      |
|    | Min. bend radius, flexible (factor) | 12 x d                                        |
|    | Min. bend radius, fixed (factor)    | 8 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)          | 3 m/s                                         |
|   | v max. gliding (speed)              | 0 m/s                                         |
|  | a max. (acceleration)               | 20 m/s <sup>2</sup>                           |
|  | 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] |
| +5 / +15        | 17.5         | 18.5         | 19.5         |
| +15 / +60       | 15           | 16           | 17           |
| +60 / +70       | 17.5         | 18.5         | 19.5         |

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

Certificates and standards

