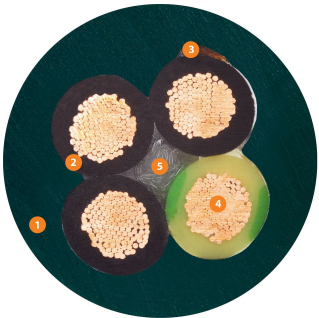


readycable® motor cable suitable for Mitsubishi

Electric MR-PWS1CBL-xxx-A1-H, basic cable, PVC

6.8 x d

MAT9712001



readycable® motor cable suitable for

Mitsubishi Electric MR-PWS1CBL-xxx-A1-H,

basic cable, PVC 6.8 x d

- 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 specifically for Mitsubishi Electric MR-PWS1CBL-xxx-A1-H applications. This heavy-duty cable features a durable PVC outer jacket that is flame retardant, UV-resistant, and oil resistant, making it suitable for various environments. Ideal for both indoor and outdoor use above 5°C, it supports unsupported travel distances and is perfect for storage units, machining, and quick handling operations. Trust readycable for reliable performance in your projects.

Manufacturer attributes

Manufacturer Part No	MR-PWS1CBL-xxx-A1-H
Cable type	Basic cable

Connectors

Connector A	Plug-in connector socket angled 4-pin
Connector B	open cable end



General properties

Number of cores and conductor nominal cross-section	4G0.75
Outer diameter (d) max. mm	7 mm
Weight per km	67 kg/km
Copper index kg/km	32 kg/km

Electricity attributes

 Nominal voltage	300/500V (according to DIN VDE 0298-3)
UL Voltage Rating	600 V
 Test voltage	2000V (according to DIN EN 50395)
Maximum conductor resistance at 20°C [$\mu\Omega$/km]	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

4G0.75



Outer jacket

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



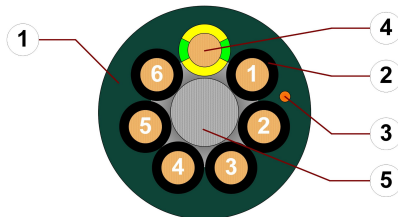
Outer jacket colour

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



Dynamic properties

	Min. bend radius, e-chain (factor)	6.8 x d
	Min. bend radius, e-chain	47.6 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 ²
	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.

Properties and approvals



UV resistance

Medium

Oil resistance

Oil-resistant (according to DIN EN 50363-4-1), Class 2



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 11113 and 2570, 600 V, 80 °C



NFPA

According to NFPA 79-2018, chapter 12.9



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 2, material/cable tested by IPA according to ISO standard 14644-1



CE

According to 2014/35/EU



Certificates and standards

