

## Encoder Cable. EC-...AM-MB2



- Encoder cable for absolute linear or angular encoders with Mitsubishi half duplex digital protocol interface.
- Direct connection through half duplex protocol version to Mitsubishi MR-J4 drive systems.
- Twisted pairs for differential signals.
- Available in 1, 3, 6 & 9 meter lengths.
- Available with or without armour.
- Supply voltage sense link.
- With ferrite core for improved noise immunity.

### Pin Out \*

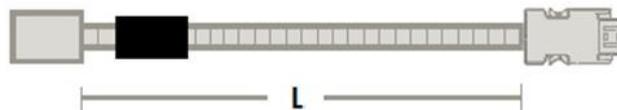
Pin Input	Colour	Signal	Pin Output
	Green	SD (MD)	7
	Yellow	/SD (MD)	8
	Grey	RQ (MR)	3
	Pink	/RQ (MR)	4
	Brown + Purple + Blue	+ 5 V	1
	White + Black	0 V	2
	Shield	Ground	Housing

\* The construction of the cable is the same for full or half duplex except the blue wire which carries the signal to the reader head for setting the communication mode. For half duplex communication pins 7 and 8 are not used.

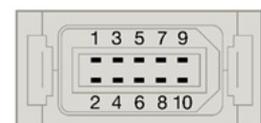
### Pin Layout

### Cable Diagram

### Pin Layout



L = 1, 3, 6, 9 meters



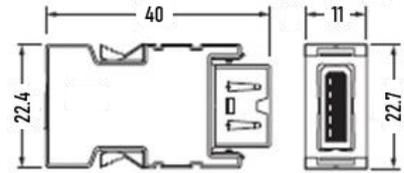
Front view

## Lead-in Connector

## Cable Specification

<b>Construction</b>	5 x 2 x 0.14 mm <sup>2</sup>
<b>Material</b>	Polyurethane
<b>Ø without armour</b>	6 mm
<b>Bend radius dynamic</b>	≥ 60 mm
<b>Bend radius static</b>	≥ 24 mm
<b>Ø with armour</b>	10 mm
<b>Bend radius dynamic</b>	≥ 60 mm
<b>Bend radius static</b>	≥ 35 mm
<b>Shield</b>	Single
<b>Terminating connector</b>	MITSUBISHI 10 way

## Terminating Connector



## Order Information

EC-(x)AM-MB2      Where (x) = 1, 3, 6 or 9 meters. Indicate "-N" for no armour.

## Example

Order Code	Description
EC-3AM-MB2	Encoder cable of 3 meters, cable type "A" specifications as above and terminating connector MITSUBISHI 10 way for half duplex communication. With armour and ferrite core.
EC-1AM-MB2-N	Encoder cable of 1 meter, cable type "A" specifications as above and terminating connector MITSUBISHI 10 way for half duplex communication. Without armour and with ferrite core.