

Extension Cable. XC-C8-...-MB-PT



- Extension cable for absolute linear or angular encoders with Mitsubishi full digital protocol interface.
- Extension cable XC-C8-MB connects through full duplex protocol version:
 - encoder cables EC-...C9-F.
 - angular encoder H2AM...D87...C9D-F.
 to Mitsubishi MDS drive systems.
- Twisted pairs for differential signals.
- Available in 5, 10, 15, 20 & 25 meter lengths.
- Low power attenuation and supply voltage sense link.
- External connection for temperature sensor: two additional external wires (flying leads) are for connecting a temperature sensor. This helps the constructor to input the temperature sensor signals to the drive, very typical when using linear motors with linear encoders.

Pin Out

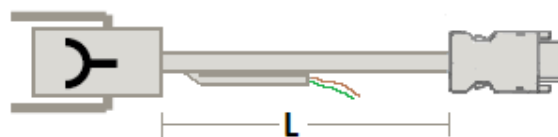
Pin Input	Colour	Signal	Pin Output
1	Blue	+5 V sense	1
4	White	0 V sense	2
7	Brown-Green	+5 V	1
8	Violet	SD (MD)	7
9	Yellow	/SD (MD)	8
10	White-Green	0 V	2
12	Link to pin 10	0 V	
14	Grey	RQ (MR)	3
17	Pink	/RQ (MR)	4
Housing	Shield	Ground	Housing
-	Brown (external)	Temperature Sensor	5
-	Green (external)	Temperature Sensor	6

Pin Layout



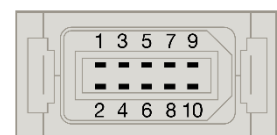
Front view

Cable Diagram



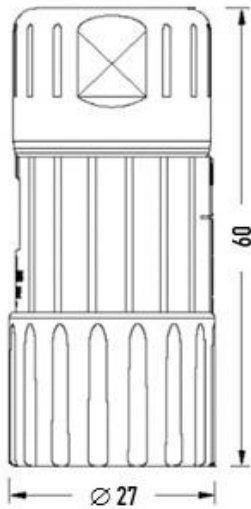
L = 5, 10, 15, 20, 25 meters

Pin Layout



Front view

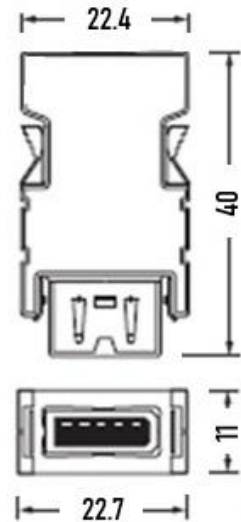
Lead-in Connector



Cable Specification

Construction	4 x 2 x 0.14 mm ² + 4 x 0.5 mm ²
Material	Polyurethane
Ø	8 mm
Bend radius dynamic	≥ 80 mm
Bend radius static	≥ 50 mm
Shield	Single
Lead-in connector (encoder side)	M23 17-pin female, external female, contact arrangement direction P
Terminating connector	MITSUBISHI 10 way
External wires (connectorless)	For temperature sensor input to the drive system

Terminating Connector



Order Information

XC-C8-(x)-MB-PT Where (x) = 5, 10, 15, 20 or 25 meters.

Example

Order Code	Description
XC-C8-10-MB-PT	Extension cable of 10 meters, specifications as above, lead-in connector M23 17-pin female, external female, contact arrangement direction P. Terminating connector MITSUBISHI 10 way. Two additional external wires for temperature sensor input.