



## RS485-USB-M12M5M8M17 USB to RS485 isolated adaptor, M12 Male



### General information

<b>Description</b>	USB to RS485 isolated adaptor, M12 Male, USB to RS485 converter with optical isolation. For any JVL motor with RS485. Fits all ServoStep™ motors (MIS) and MAC motor@s with RS485 interface. 3 meter cable 3 x 30 cm 5, 8 and 17 pin cables. Replaces RS485-M12-1-5-5 + RS485-M12-1-5-8 + RS485-M12-1-5-17 + USB-RS485 converter. Driver can be downloaded from <a href="https://ftdichip.com/drivers/vcp-drivers/">https://ftdichip.com/drivers/vcp-drivers/</a>		
<b>Cable connectivity</b>	USB to RS485 Converter	<b>Color</b>	Black
<b>Cable connector 1</b>	M12 - M5M8M17 A-coded	<b>Cable connector 2</b>	USB male
<b>Connector 1 angle</b>	0° Straight	<b>Connector 2 angle</b>	0° Straight
<b>Cable length [m]</b>	5	<b>Oil resistant</b>	No
<b>CE Marked</b>		<b>Approval - UL</b>	No



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### Connector information

<b>Connector</b> 3x M12, RS232-M5M8M17	n/a	<b>Connector</b> 3x M12, RS485-M5M8M17	M12-M5M8M17 female A-coded
<b>Cable connector 1</b>	M12 - M5M8M17 A-coded	<b>Cable connector 2</b>	USB male
<b>Connector 1 angle</b>	0° Straight	<b>Connector 2 angle</b>	0° Straight
<b>Connector 1 IP</b>	IP67	<b>Connector 2 IP</b>	IP42
<b>Color</b>	Black	<b>Cable material</b>	PVC Polyvinylchlorid
<b>Cable Application</b>	Communication	<b>Cable flexibility</b>	Standard
<b>Cable shielding braid</b>	Yes	<b>Cable shielding foil</b>	Yes

### Picture connections

Only thread on the first 3mm for easier installation for all three M12 connectors.

Date	Description
2025-02-18	New PCB, New Box, FTDI Chip USB
2025-03-05	Updated with part list, limited thread on M12.

JVL Signals				
Signal*	M12A 5P	M12A 8P	M12A 17P	Colour
B0-	3	5	15	Brown
A0+	4	6	17	Blue
GND	5	4	16	Black



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## Electrical information

<b>USB TYPE:</b>		<b>USB Isolation</b>	500Vdc Galvanic
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<b>USB Duplex</b>	Half Duplex	<b>USB Baudrate max [Mbps]</b>	1
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<b>USB Voltage</b>	5	<b>USB Current &lt;[mA]</b>	10
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<b>USB Termination included:</b>	No	<b>Ambient Temperature range [°C]:</b>	-20°C to +85°C
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<b>ESD Rating:</b>	Build in extra ESD protection
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	Human Body Model HBM ±15 kV
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	61000-4-2 Air Discharge ±15 kV
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	61000-4-2 Contact Discharge ±15 kV
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<b>EMC Emission</b>	EN IEC 61000-6-4:2019
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<b>EMC Immunity</b>	EN IEC 61000-6-2:2019
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<b>USB Driver</b>	Link
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