AiM Infotech

Marelli MF4 for Formula Azzurra (former Formula Renault 1600)

Release 1.02
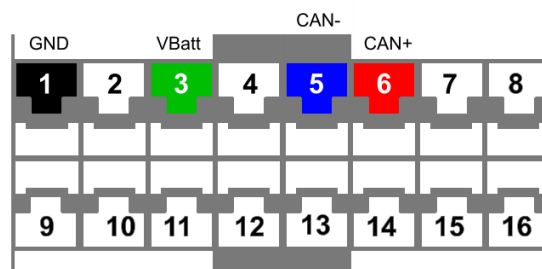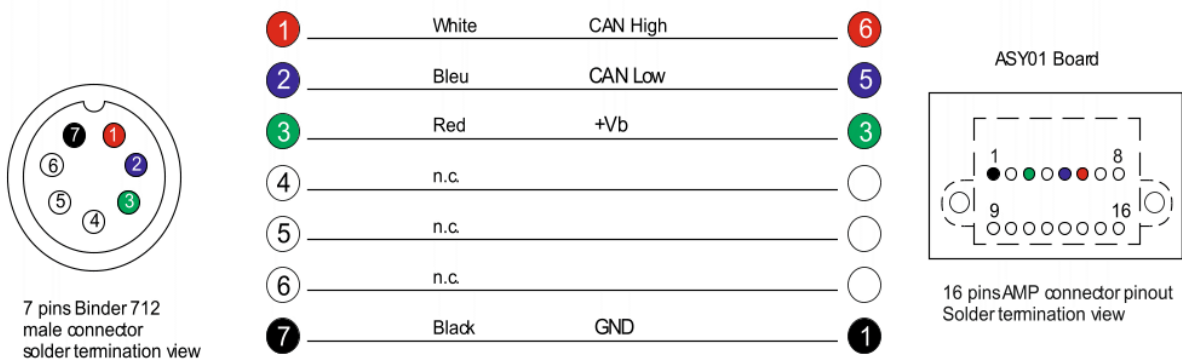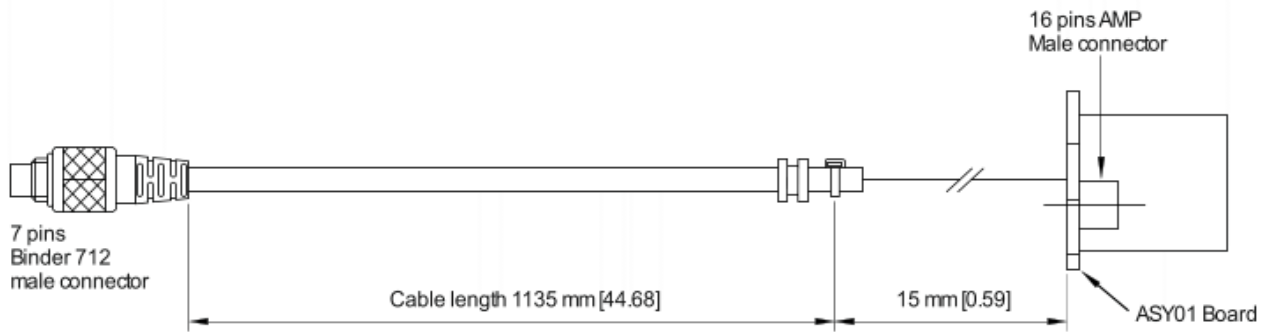

ECU

1
Connection to AiM devices

Formula Azzurra vehicles are equipped with a MareliMF4 ECU that feature a bus communication protocol based on CAN. The vehicle wiring feature a 16 pins J7 female connector placed in the car cockpit where the CAN bus can be reached. Here below you see connector pinout on top and connection table on bottom.

J7 connector pin	Pin function	AiM cable
6	CAN High	CAN+
5	CAN Low	CAN-
2	V Battery	9-15 VDC
1	GND	GND

These vehicles usually install an AiM MyChron3 XGLog. To connect it to the vehicle J7 connector use the proper AiM CAN cable whose part number is: **V02550700**. Here below you see the cable dimensions in mm [inches] on top and the cable constructive drawing on bottom.

2

AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "MARELLI"
- ECU Model "FR1600"

3
Available channels

Channels received by AiM devices connected to "MARELLI" "FR1600" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	FR1600_RPM	RPM
ECU_2	FR1600_GEAR	Engaged gear
ECU_3	FR1600_WATERTEMP	Engine coolant temperature
ECU_4	FR1600_MAP	Manifold air pressure
ECU_5	FR1600_TPS	Throttle position sensor
ECU_6	FR1600_AIRTEMP	Intake air temperature