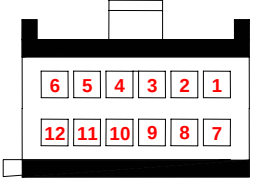
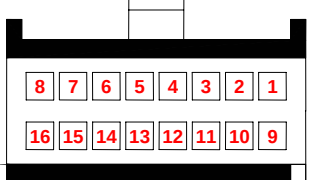


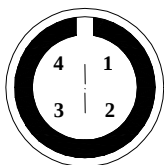
## Appendix – Technical draws

### “A” – MXL/EVO3 QM PISTA: AMP female connector

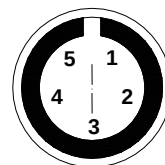
| Pin | Signal                                  | Pin | Signal         | Connector draw                                                                                                                                                              |
|-----|-----------------------------------------|-----|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1A  | GND                                     | 1B  | Analog input 4 |  <p>12 Pins AMP female connector pinout (Labelled as “A”) – Contacts insertion view</p>  |
| 2A  | 9-15V Battery input                     | 2B  | V reference    |                                                                                                                                                                             |
| 3A  | CAN 1- (ECU interface)                  | 3B  | Analog GND     |  <p>16 Pins AMP female connector pinout (Labelled as “B”) – Contacts insertion view</p> |
| 4A  | CAN 1+ (ECU interface)                  | 4B  | Analog input 3 |                                                                                                                                                                             |
| 5A  | RS232 TX (ECU interface)                | 5B  | Analog input 2 |                                                                                                                                                                             |
| 6A  | RS232 RX (ECU interface)                | 6B  | V reference    |                                                                                                                                                                             |
| 7A  | USB D-                                  | 7B  | Analog GND     |                                                                                                                                                                             |
| 8A  | RPM 150-400V coil - RPM square wave >8V | 8B  | Analog input 1 |                                                                                                                                                                             |
| 9A  | + VB                                    | 9B  | Analog input 8 |                                                                                                                                                                             |
| 10A | GND                                     | 10B | USB D+         |                                                                                                                                                                             |
| 11A | + VB                                    | 11B | Analog GND     |                                                                                                                                                                             |
| 12A | Speed                                   | 12B | Analog input 7 |                                                                                                                                                                             |
|     |                                         | 13B | Analog input 6 |                                                                                                                                                                             |
|     |                                         | 14B | V reference    |                                                                                                                                                                             |
|     |                                         | 15B | Analog GND     |                                                                                                                                                                             |
|     |                                         | 16B | Analog input 5 |                                                                                                                                                                             |

#### C-Acquisition switch channel

| Pin | Function | Pin | Function                 | Pin | Function | Pin | Function            |
|-----|----------|-----|--------------------------|-----|----------|-----|---------------------|
| 1   | Reserved | 3   | Reserved                 | 1   | CAN 0+   | 4   | CAN 0-              |
| 2   | GND      | 4   | Start acquisition switch | 2   | GND      | 5   | 9-15V Battery input |
|     |          |     |                          | 3   | +VB      |     |                     |



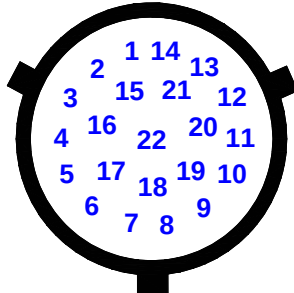
4 Pins female Binder connector pinout (Labelled as “C”): external view



5 Pins female Binder connector pinout (Labelled as “D”): outside view

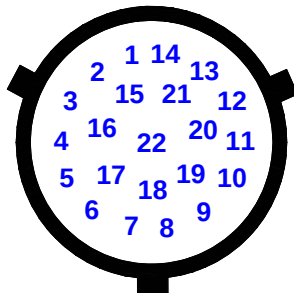
## “B” – MXL QM PRO: 22 Pins Deutsch connector

Kindly notice there are some differences from EVO3 wirings, evidenced in red.

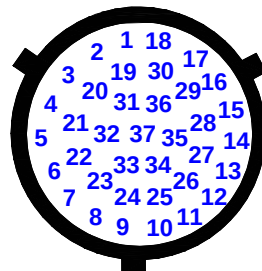
| Pin | Signal                     | Pin | Signal                                                    | Connector Draw                                                                                                                                                              |
|-----|----------------------------|-----|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | + VB (50 mA max)           | 12  | GND                                                       |  <p>22 pins Deutsch male connector pinout (Labelled as “A”): contacts insertion view</p> |
| 2   | GND                        | 13  | + VB for Ext. exp. modules (350 mA max)                   |                                                                                                                                                                             |
| 3   | CAN 0+ (Ext. exp. modules) | 14  | MEM                                                       |                                                                                                                                                                             |
| 4   | CAN 0- (Ext. exp. modules) | 15  | VIEW                                                      |                                                                                                                                                                             |
| 5   | Speed 3                    | 16  | Ext. Gear Flash                                           |                                                                                                                                                                             |
| 6   | Speed 4                    | 17  | RS232 RX (ECU interface)                                  |                                                                                                                                                                             |
| 7   | USB D+                     | 18  | RS232 TX (ECU interface)                                  |                                                                                                                                                                             |
| 8   | USB D-                     | 19  | GND                                                       |                                                                                                                                                                             |
| 9   | GND                        | 20  | CAN 1+ (ECU interface)                                    |                                                                                                                                                                             |
| 10  | + VB (50 mA max)           | 21  | CAN 1- (ECU interface)                                    |                                                                                                                                                                             |
| 11  | GND                        | 22  | 9-15 V Battery input or Gear Flash power supply (no fuse) |                                                                                                                                                                             |

## “C” – EVO3 QM PRO: 22 Pins Deutsch connector

Kindly notice there are some differences from MXL wirings, evidenced in red.

| Pin | Signal                     | Pin | Signal                                                    | Connector Draw                                                                                                                                                                |
|-----|----------------------------|-----|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | + VB (50 mA max)           | 12  | GND                                                       |  <p>22 pins Deutsch male connector pinout (Labelled as “A”): contacts insertion view</p> |
| 2   | GND                        | 13  | + VB for Ext. exp. modules (350 mA max)                   |                                                                                                                                                                               |
| 3   | CAN 0- (Ext. exp. modules) | 14  | MEM                                                       |                                                                                                                                                                               |
| 4   | CAN 0+ (Ext. exp. modules) | 15  | VIEW                                                      |                                                                                                                                                                               |
| 5   | Speed 3                    | 16  | Ext. Gear Flash                                           |                                                                                                                                                                               |
| 6   | Speed 4                    | 17  | RS232 RX (ECU interface)                                  |                                                                                                                                                                               |
| 7   | USB D+                     | 18  | RS232 TX (ECU interface)                                  |                                                                                                                                                                               |
| 8   | USB D-                     | 19  | GND                                                       |                                                                                                                                                                               |
| 9   | GND                        | 20  | CAN 1+ (ECU interface)                                    |                                                                                                                                                                               |
| 10  | + VB (50 mA max)           | 21  | CAN 1- (ECU interface)                                    |                                                                                                                                                                               |
| 11  | GND                        | 22  | 9-15 V Battery input or Gear Flash power supply (no fuse) |                                                                                                                                                                               |

**“D” – MXL/EVO3 QM PRO: 37 Pins Deutsch connector**

| Pin | Signal                     | Pin | Signal                     | Connector Draw                                                                                                                                                              |
|-----|----------------------------|-----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 9-15 V Battery input       | 20  | Analog input 12 (0-5V max) |  <p>37 pins Deutsch male connector pinout (Labelled as “B”): contacts insertion view</p> |
| 2   | Analog input 1 (0-5V max)  | 21  | V Reference (5V – 30 mA)   |                                                                                                                                                                             |
| 3   | Analog input 2 (0-5V max)  | 22  | V Reference (5V – 30 mA)   |                                                                                                                                                                             |
| 4   | Analog GND                 | 23  | Analog input 10 (0-5V max) |                                                                                                                                                                             |
| 5   | Analog GND                 | 24  | V Reference (5V – 30 mA)   |                                                                                                                                                                             |
| 6   | V Reference (5V – 30 mA)   | 25  | Analog input 9 (0-5V max)  |                                                                                                                                                                             |
| 7   | V Reference (5V – 30 mA)   | 26  | Analog input 8 (0-5V max)  |                                                                                                                                                                             |
| 8   | Analog input 3 (0-5V max)  | 27  | Analog GND                 |                                                                                                                                                                             |
| 9   | Analog input 4 (0-5V max)  | 28  | GND                        |                                                                                                                                                                             |
| 10  | Analog input 6 (0-5V max)  | 29  | + VB (*)                   |                                                                                                                                                                             |
| 11  | Analog GND                 | 30  | Speed 2                    |                                                                                                                                                                             |
| 12  | RPM Square Wave 4-8 V      | 31  | Analog GND                 |                                                                                                                                                                             |
| 13  | RPM Coil – Sq. Wave >8 V   | 32  | Analog input 5 (0-5V max)  |                                                                                                                                                                             |
| 14  | + VB (50 mA max)           | 33  | Analog input 7 (0-5V max)  |                                                                                                                                                                             |
| 15  | GND (Battery input)        | 34  | V Reference (5V – 30 mA)   |                                                                                                                                                                             |
| 16  | + VB (*)                   | 35  | Analog GND                 |                                                                                                                                                                             |
| 17  | + VB (50 mA max)           | 36  | Speed 1                    |                                                                                                                                                                             |
| 18  | GND                        | 37  | Start acquisition switch   |                                                                                                                                                                             |
| 19  | Analog input 11 (0-5V max) |     |                            |                                                                                                                                                                             |

(\*) The total power consumption sum of pin 16 and pin 29 must not exceed 50 mA (max current sink).

Analog input 1-12 Voltage = 0-5V max , V Reference = 5V 30 mA