



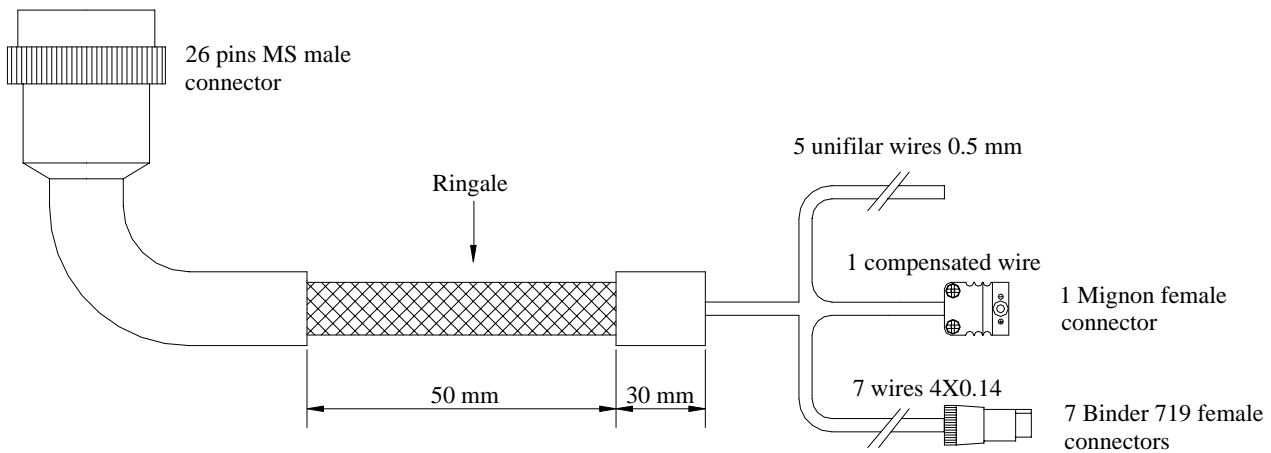
<b>PRODUCT DOCUMENTATION</b>	<b>09/06/2003</b>	<b>WIRING</b>	<b>Dash ST1 standalone</b>
Part number : V02548070 – Version 1.01			

- Dash ST1 “standalone” wiring: “1 thermocouple” version**

The aim of this documentation is to give the customer a short but exhaustive description of the “input cable” for his Dash ST1 “standalone”.

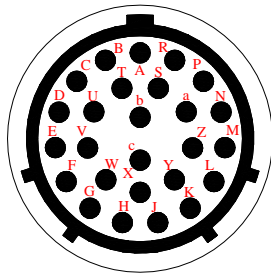
**It is strongly recommended NOT to damage the input cable, NOT to remove the stickers showing the channels’ names, NOT to remove or cut off one (or more) connectors, to follow the RPM and POWER inputs’ installation notes.**

Here below you may see a drawing showing Dash ST1’s input cable.

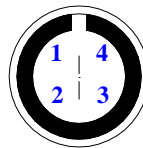


**Figure 1:** Dash ST1 “standalone” wiring (“1 thermocouple” version)

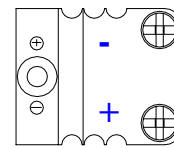
In the following drawings it is shown the pinout corresponding to the 26 pins MS connector (Figure 2), to the 4 pins Binder connector (Figure 3) and to the Mignon connector (Figure 4).



**Figure 2:** 26 pins MS connector pinout.  
Contacts insertion view



**Figure 3:** 4 pins female Binder connector pinout.  
Solder termination view



**Figure 4:** female Mignon connector pinout.  
Top side view

Please refer to the following paragraphs in order to have a more detailed description concerning both the “input cable” construction and its correct installation (in particular it will be described how to connect the RPM signal and how to power the gauge).

**Mignon connector terminated cable**

Channel name	Pin MS	Signal	Pin Mignon	Cable colour	Cable length
Temp. 2	B	+ Temp 2	+	Yellow	1500 mm
	T	- Temp 2 (GND)	-	Red	

## Binder connector terminated cables

Channel name	Pin MS	Signal	Pin Binder	Cable colour	Cable length
Temp. 1	A	+ Temp 1	1	White	1500 mm
	S	- Temp 1 (GND)	2	Black	
		Not connected	3		
	D	V ref 1	4	Blue	
Press. 1	C	+ Press 1	1	White	1500 mm
	U	- Press 1 (GND)	2	Black	
	Z	+ V battery (output)	3	Red	
	D	V ref 1	4	Blue	
Press. 2	E	+ Press 2	1	White	1500 mm
	F	- Press 2 (GND)	2	Black	
	Z	+ V battery (output)	3	Red	
	V	V ref 2	4	Blue	
Gear	G	+ Gear	1	White	1500 mm
	W	- Gear (GND)	2	Black	
		Not connected	3		
	V	V ref 2	4	Blue	
Lap	X	Optic Lap	1	White	200 mm
	c	GND	2	Black	
	Y	+ V battery (output)	3	Red	
	X	Optic lap	4	Blue	
Speed	L	+ Speed	1	White	200 mm
	b	GND	2	Black	
	Y	+ V battery (output)	3	Red	
		Not connected	4		
Gear flash	H	Gear flash 1	1	White	200 mm
		Not connected	2		
	J	Gear flash 2	3	Red	
	K	+ V battery (output)	4	Blue	

## Free wires

Channel name	Pin MS	Signal	Cable colour	Cable length
RPM	N	RPM 150 ÷ 400 V (Coil)	White	400 mm
	a	GND	Black	
	M	RPM 8 ÷ 50 V (Square wave)	Blue	
Power	P	GND	Black	400 mm
	R	+ V battery (input) 9 ÷ 15 V	Red	

## How to connect the RPM sensor

The RPM signal may be sampled either from the ECU or from the coil.

- The RPM signal sampled from the ECU is a 12 Volts square wave signal and must be connected on pin “M”;
- The RPM signal sampled from the coil must be connected on pin “N”.

## It is reminded

- **NOT to connect the RPM coil signal on pin “M”.**
- **To connect either the RPM signal from the coil or the RPM signal from the ECU, NOT BOTH (this event creates shortcuts).**

## How to power the gauge

The gauge must be powered by a **9 ÷ 15 V DC power source. Do not exceed these limits.**

Connect the red wire to the battery’s positive (+) pole and the black one to the negative (-) pole.

Hi Guys!  
**See You**  
On the **Track.**

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