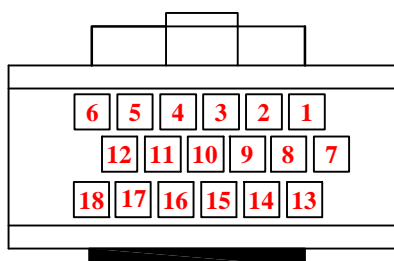


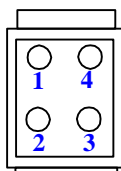
LAMBDA CONTROLLER HARNESS "ANALOG - RS232" version

Wiring channel Table Tab.1

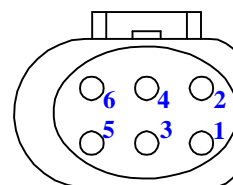
Channel	Wires color	18 PIN AMP	Termination Connector	Signals	Length	Section [mm ²]
Analog + RS232	white black red blue	17 16 6 12	4 pin DEUTSCH male	LAMBDA OUT GND RS232 PC RX RS232 PC TX	40 cm	0.35
Power	black red	1 2	Free wires	GND +VBATT	100 cm	1.34
Lambda	red yellow white gray blue black	11 4 3 9 10 5	6 pin Bosch female	IP+ IP-/VS- H- H+ RCAL VS+	90 cm	0.5



PINOUT
of the 18 pin female AMP
code 344106-1
inserting contacts view



PINOUT
of the 4 pin male DEUTSCH
code DTM04-4P
inserting contacts view



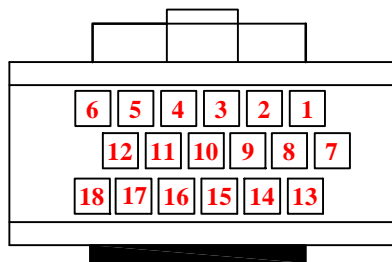
PINOUT
of the 6 pin female BOSCH
Code 1 928 404 669
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	
				Data / Date	Scala / Scale
			Titolo / Title		
			LAMBDA CONTROLLER HARNESS "ANALOG - RS232" version		
			N. disegno / Drawing N. / Code	Rev. / Rev.	Foglio / Sheet
			V02359010		

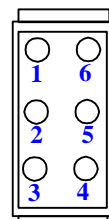
LAMBDA CONTROLLER HARNESS "CAN - RS232" version

Wiring channel Table Tab.1

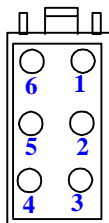
Channel	Wires color	18 PIN AMP	Termination connector	Signals	Length	Section [mm ²]	
CAN IN + RS232	white	13	6 pin DEUTSH male	CAN+	40 cm	0.5	
	black	8		1			GND
	red	7		2			+VB
	blue	14		3			CAN-
	gray	6		4			RS232 PC RX
	yellow	12		5			RS232 PC TX
CAN OUT	white	13	6 pin DEUTSH female	CAN+	30 cm	0.35	
	black	8		1			GND
	red	7		2			+VB
	blue	14		3			CAN-
							4
				5			nc
Power	black	1	Free wires	GND	100 cm	1.34	
	red	2		+VBATT			
Lambda	red	11	6 pin Bosch female	IP+	90 cm	0.5	
	yellow	4		1			IP-/VS-
	white	3		2			H-
	gray	9		3			H+
	blue	10		4			RCAL
	black	5		5			VS+
		6					



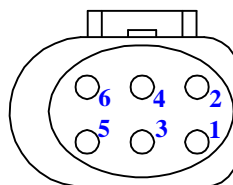
PINOUT
of the 18 pin female AMP
code 344106-1
inserting contacts view



PINOUT
of the 6 pin male DEUTSCH
code DTM04-6P
inserting contacts view



PINOUT
of the 6 pin female DEUTSCH
code DTM06-6S
inserting contacts view



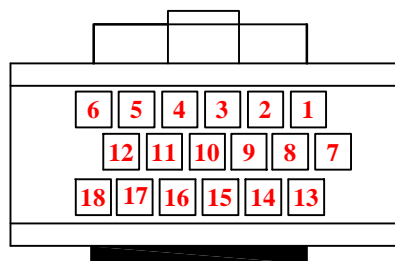
PINOUT
of the 6 pin female BOSCH
code 1 928 404 669
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material	N. articolo / Item N.			
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title LAMBDA CONTROLLER HARNESS "CAN - RS232" version				
		N. disegno / Drawing N. / Code V02359020		Rev. / Rev.	Foglio / Sheet	

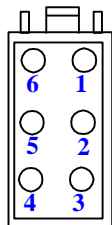
LAMBDA CONTROLLER HARNESS "ANALOG - CAN - RS232" version

Wiring channel Table Tab.1

Channel	Wires color	18 PIN AMP	Termination connector	Signals	Length	Section [mm ²]
CAN IN	white	13	6 pin DEUTSH male	1 CAN+	40 cm	0.35
	black	8		2 GND		
	red	7		3 +VB		
	blue	14		4 CAN-		
				5 nc		
				6 nc		
CAN OUT	white	13	6 pin DEUTSH female	1 CAN+	30 cm	0.35
	black	8		2 GND		
	red	7		3 +VB		
	blue	14		4 CAN-		
				5 nc		
				6 nc		
Analog + RS232	white	17	4 pin DEUTSCH male	1 LAMBDA OUT	40 cm	0.35
	black	16		2 GND		
	red	6		3 RS232 PC RX		
	blue	12		4 RS232 PC TX		
Power	black	1	Free wires	GND	100 cm	1.34
	red	2		+VBATT		
Lambda	red	11	6 pin Bosch female	1 IP+	90 cm	0.5
	yellow	4		2 IP-/VS-		
	white	3		3 H-		
	gray	9		4 H+		
	blue	10		5 RCAL		
	black	5		6 VS+		

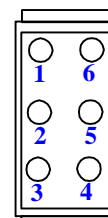
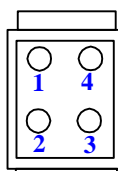


PINOUT of the 18 pin female AMP code 344106-1
inserting contacts view

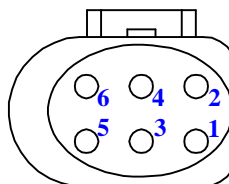


PINOUT of the 6 pin female DEUTSCH code DTM06-6S
inserting contacts view

PINOUT of the 4 pin male DEUTSCH code DTM04-4P
inserting contacts view



PINOUT of the 6 pin male DEUTSCH code DTM04-6P
inserting contacts view



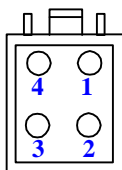
PINOUT of the 6 pin fem. BOSCH Code 1 928 404 669
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material	N. articolo / Item N.		
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title LAMBDA CONTROLLER HARNESS "ANALOG - CAN - RS232" version			
		N. disegno / Drawing N. / Code V02359040		Rev. / Rev.	Foglio / Sheet

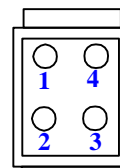
LAMBDA CONTROLLER CABLE "ANALOG DEUTSCH" version

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connecotr	Signals	Length	Section (mmq)
Analog	red black	4 pin DEUTSCH female	1 2 3 4 4 pin DEUTSCH male	1 2 3 4 LAMBDA OUT GND nc nc	90 cm	0.35



PINOUT
of the 4 pin female DEUTSCH
code DTM06-4S
inserting contacts view



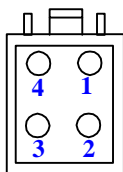
PINOUT
of the 4 pin male DEUTSCH
code DTM04-4P
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title			
		LAMBDA CONTROLLER CABLE "ANALOG DEUTSCH" version			
		N. disegno / Drawing N. / Code		Rev. / Rev.	Foglio / Sheet
		V02359050			

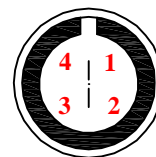
LAMBDA CONTROLLER CABLE "ANALOG PLASTIC BINDER" version

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)
Analog	red black	4 pin DEUTSCH female	4 pin 719 binder male	LAMBDA OUT GND nc nc	90 cm	0.35



PINOUT
of the 4 pin female DEUTSCH
code DTM06-4S
inserting contacts view



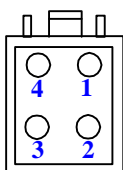
PINOUT
of the 4 pin male binder 719
code 09-9767-70-04
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.		
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
			Titolo / Title			
			LAMBDA CONTROLLER CABLE "ANALOG PLASTIC BINDER" version			
N. disegno / Drawing N. / Code			V02359060	Rev. / Rev.	Foglio / Sheet	

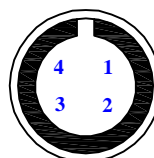
LAMBDA CONTROLLER CABLE "ANALOG METALLIC BINDER" version

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)
Analog	red black	4 pin DEUTSCH female	4 pin 712 binder male	LAMBDA OUT GND nc nc	90 cm	0.35



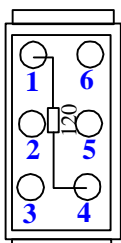
PINOUT
of the 4 pin female DEUTSCH
code DTM06-4S
inserting contacts view



PINOUT
of the 4 pin male binder 712
code 08.0327.000024
inserting contacts view


Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title			
		LAMBDA CONTROLLER CABLE "ANALOG METALLIC BINDER" version			
N. disegno / Drawing N. / Code			Rev. / Rev.	Foglio / Sheet	
V02359070					

CAN TERMINATION



NOTE 1: Insert a 120 ohm traditional resistor between pin 1 and 4 of the DEUTSCH connector and insert 6 sealing plug .

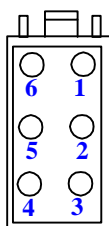
PINOUT
of the 6 pin male DEUTSCH
code DTM04-6P
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title			
		<p style="text-align: center;">CAN TERMINATION</p>		Rev. / Rev.	Foglio / Sheet
		N. disegno / Drawing N. / Code		V02359080	

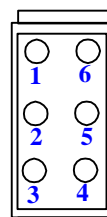
LAMBDA CONTROLLER CABLE "DEUTSCH CAN " version

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)
CAN	white	1	1	CAN+	90 cm	0.35
	black	2	2	GND		
	red	3	3	+VB		
	blue	4	4	CAN-		
		5	5	nc		
		6	6	nc		



PINOUT
of the 6 pin female DEUTSCH
code DTM06-6S
inserting contacts view



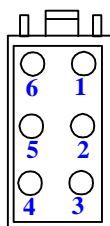
PINOUT
of the 6 pin male DEUTSCH
code DTM04-6P
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material			N. articolo / Item N.	
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title				
		LAMBDA CONTROLLER CABLE "DEUTSCH CAN " version				
N. disegno / Drawing N. / Code					Rev. / Rev.	Foglio / Sheet
V02359090						

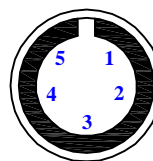
LAMBDA CONTROLLER CABLE "METALLIC BINDER CAN"

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)
CAN	white	1	1	CAN+ GND +VB CAN- nc	100 cm	0.35
	black	2	2			
	red	3	3			
	blue	4	4			
		5	5			
		6	5			



PINOUT
of the 6 pin female DEUTSCH
code DTM06-6S
inserting contacts view



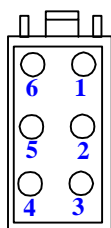
PINOUT
of the 5 pin male binder 712
code 99-0413-00-05
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material			N. articolo / Item N.	
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title				
		LAMBDA CONTROLLER CABLE "METALLIC BINDER CAN"				
N. disegno / Drawing N. / Code					Rev. / Rev.	Foglio / Sheet
V02359100						

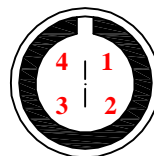
LAMBDA CONTROLLER CABLE "PLASTIC BINDER CAN"

Wiring channel Table Tab.1


Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)
CAN	white	1	1	CAN+	100 cm	0.35
	black	2	2	GND		
	red	3	3	+VB		
	blue	4	4	CAN-		
		5				
		6				



PINOUT
of the 6 pin female DEUTSCH
code DTM06-6S
inserting contacts view



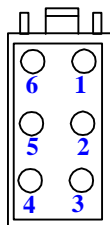
PINOUT
of the 4 pin male binder 719
code 09-9767-70-04
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiali / Material	N. articolo / Item N.		
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title LAMBDA CONTROLLER CABLE "PLASTIC BINDER CAN"			
		N. disegno / Drawing N. / Code V02359110		Rev. / Rev.	Foglio / Sheet

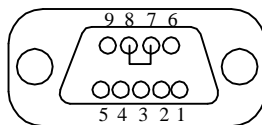
LAMBDA CONTROLLER CABLE "PROGRAMMING VIA CAN"

Wiring channel Table Tab.1

Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)	
RS232	white	5	1	nc	90 cm	0.35	
	blue	6	2	RS232 PC RX			
	black	6 pin DEUTSCH female	Female DB9	3			RS232 PC TX
				4			nc
				5			GND
				6			nc
				7			nc
				8			nc
				9			nc




PINOUT
of the 6 pin female DEUTSCH
code DTM06-6S
inserting contacts view



PINOUT
of the DB9 female connector
inserting contacts view

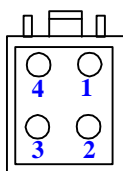
NOTE : Connect pin7 (RTS) and pin8 (CTS) of the DB9 connector.

Rif. / Ref.	Q.tà / Q.ty	Materiali / Material	N. articolo / Item N.		
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title			
		LAMBDA CONTROLLER CABLE "PROGRAMMING VIA CAN"			
		N. disegno / Drawing N. / Code		Rev. / Rev.	Foglio / Sheet
		V02359120			

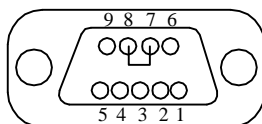
LAMBDA CONTROLLER CABLE "PROGRAMMING VIA ANALOG"

Wiring channel Table Tab.1

Channel	Wires color	Termination connector	Termination connector	Signals	Length	Section (mmq)	
RS232	white	3	1	nc	90 cm	0.35	
	blue	4	2	RS232 PC RX			
	black	4 pin DEUTSCH female	Female DB9	3			RS232 PC TX
				4			nc
				5			GND
				6			nc
				7			nc
				8			nc
				9			nc



PINOUT
of the 4 pin female DEUTSCH
code DTM06-4S
inserting contacts view



PINOUT
of the DB9 female connector
inserting contacts view

NOTE: Connect pin7 (RTS) and pin8 (CTS) of the DB9 connector.

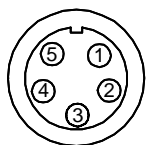
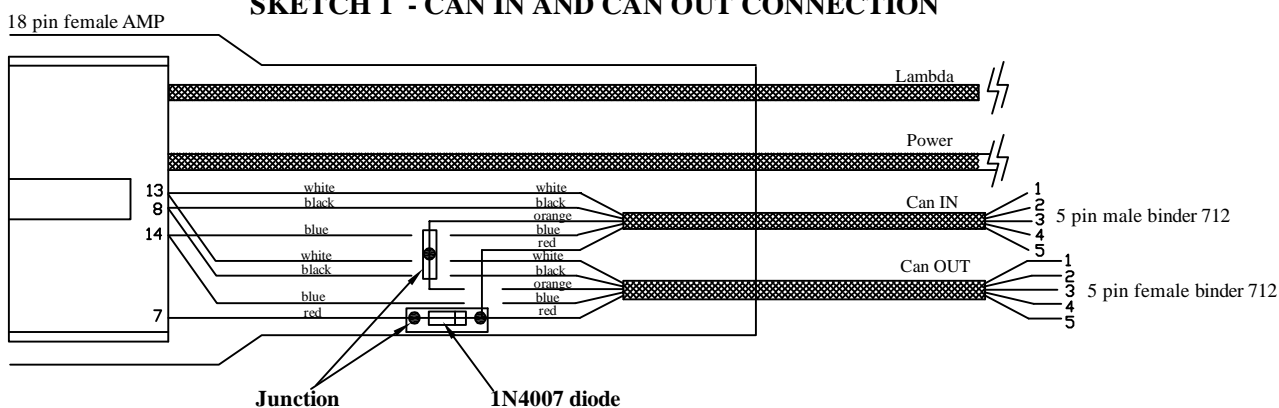
Rif. / Ref.	Q.tà / Q.ty	Materiale / Material		N. articolo / Item N.	
Progettato da / Designed by		Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	
		Titolo / Title			
		LAMBDA CONTROLLER CABLE "PROGRAMMING VIA ANALOG"			
N. disegno / Drawing N. / Code			V02359130	Rev. / Rev.	Foglio / Sheet

LAMBDA CONTROLLER HARNESS "CAN" VERSION WITH BINDER CONNECTORS

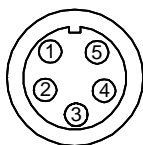
Wiring channel Table Tab.1

Channel	Wires color	18 PIN AMP	Termination connector	Signals	Length	Section [mm ²]
CAN IN	white	13	5 pin 712 binder male	CAN+	200 cm	0.25
	black	8		GND		
	blue	14		See sketch 1		
	red	7		CAN- VB ext		
CAN OUT	white	13	5 pin 712 binder female	CAN+	35 cm	0.25
	black	8		GND		
	blue	14		See sketch 1		
	red	7		CAN- VB ext		
Power	black	1	Free wires	GND	100 cm	1.34
	red	2		+VBATT		
Lambda	red	11	6 pin Bosch female	IP+	90 cm	0.5
	yellow	4		IP-/VS-		
	white	3		H-		
	gray	9		H+		
	blue	10		RCAL		
	black	5		VS+		

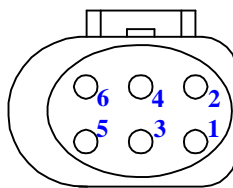
SKETCH 1 - CAN IN AND CAN OUT CONNECTION



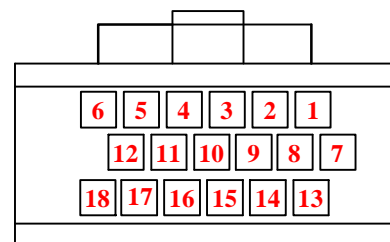
PINOUT
of the 5 pin male binder 712
code 08.0327.000024
inserting contacts view



PINOUT
of the 5 pin female binder 712
code 08.0327.000024
inserting contacts view



PINOUT
of the 6 pin fem. BOSCH
Code 1 928 404 669
inserting contacts view



PINOUT
of the 18 pin female AMP
code 344106-1
inserting contacts view

Rif. / Ref.	Q.tà / Q.ty	Materiale / Material	N. articolo / Item N.		
Progettato da / Designed by	Contr. da / Ckd. by	Approvato da / Approved by	Nome file / File name	Data / Date	Scala / Scale
		Titolo / Title LAMBDA CONTROLLER HARNESS "CAN" VERSION WITH BINDER CONNECTORS			
		N. disegno / Drawing N. / Code V02359150		Rev. / Rev.	Foglio / Sheet