

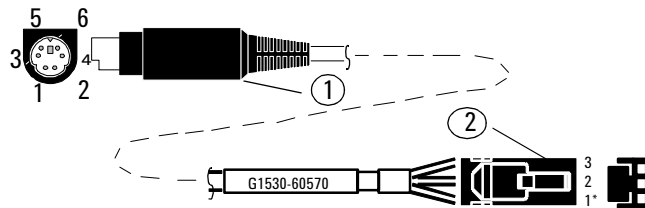
1020 Cable Electronics

Analog signal outputs

There are two channels of analog output available on the back panel, labeled *Sig 1* and *Sig 2*. Two cables are available – one for 3395/6 series integrators and one for general use.

Analog cable – GC to 3395A/B or 3396B/C Integrators and 35900 C/D/E Analog to Digital Interface instrument

Part no. G1530-60570

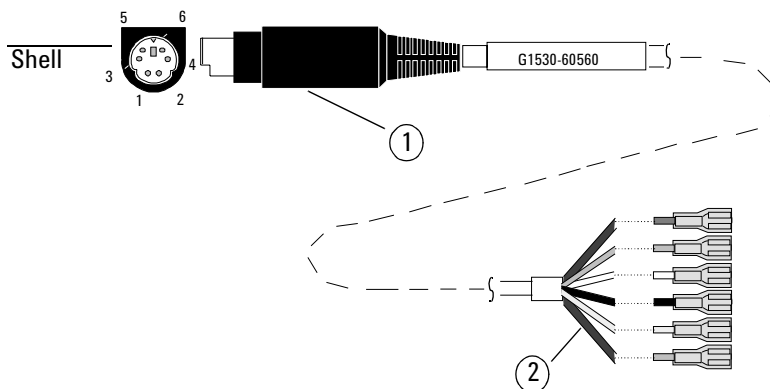


*1 next to triangle etched on connector

Connector 1	Signal Name	Color	Connector 2
4	1 V	Black	3
2	Common	White	2
Shell	Ground	Orange	1

Analog cable — general use

Part no. G1530-60560



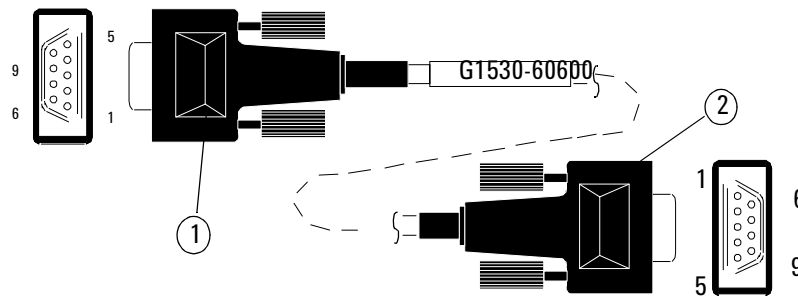
Connector 1	Signal name	Connector 2 — quick disconnects
1	0 to 1 mV (-)	Brown
2	0 to 1 V, 0 to 10 V(-)	White
3	0 to 1 mV (+)	Red
4	1 V (+)	Black
6	10 V (+)	Blue
Shell	Ground	Orange

Automatic sampler, 6890A GC

This RS-232C serial port (labeled *sampler* on the back of the GC) is preconfigured to connect the GC to an Automatic Liquid Sampler.

Cable pinouts, 6890 GC to Automatic Liquid Sampler

Part no. G1530-60600



Connector 1 — 9 pin (female)	Connector 2 — 9 pin (female)
1 — DCD	4 — DTR
6 — DSR	
2 — Rx	3 — Tx
3 — Tx	2 — Rx
4 — DTR	6 — DSR
	1 — DCD
5 — Ground	5 — Ground
7 — RTS	8 — CTS
8 — CTS	7 — RTS
9 — RI	

Automatic sampler, 6890 Plus and 6890N GCs

6890 Plus

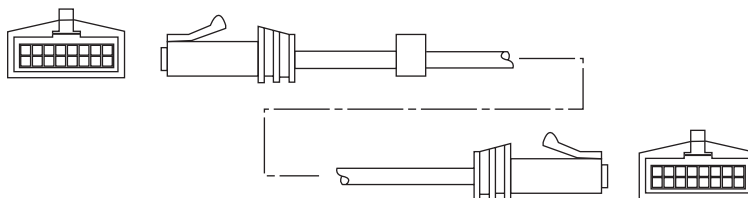
GC's with serial numbers > 20,000 require an additional PCB for use with an automatic liquid sampler. When an ALS Interface PCB is installed, three connectors are available for the 7683 Autosampler system.

6890N

There are three connectors, Sampler 1, Sampler 2, and Tray, for the 7683 Autosampler system.

Cable pinouts, 6890 Plus/6890N GC to G2613A Injector

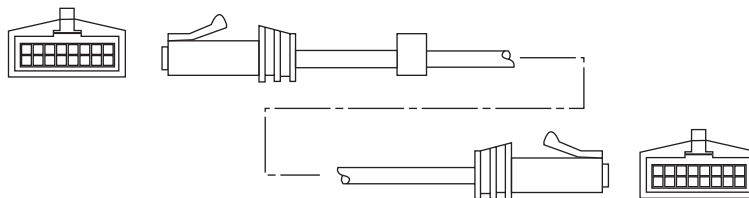
Part no. G2613-60590



Connector 1 — 16 pin (female)		Connector 2 — 16 pin (female)	
A1	RXD	A1	TXD
A2	CTS	A2	RTS
A3	DSR	A3	DTR
A4	NCTL Reset	A4	NCTL Reset
A5	GND	A5	GND
A6	VAC 1	A6	VAC 1
A7	GND	A7	GND
A8	VAC 2	A8	VAC 2
B1	TXD	B1	RXD
B2	RTS	B2	CTS
B3	DTR	B3	DSR
B4	GND	B4	GND
B5	GND	B5	GND
B6	VAC 1	B6	VAC 1
B7	GND	B7	GND
B8	VAC 2	B8	VAC 2

Cable pinouts, 6890 Plus/6890N to G2614A Tray

Part no. G2614-60610



Connector 1 — 16 pin (female)		Connector 2 — 16 pin (female)	
A1	RXD	A1	TXD
A2	CTS	A2	RTS
A3	DSR	A3	DTR
A4	M Reset	A4	M Reset
A5	GND	A5	GND
A6	VAC 1	A6	VAC 1
A7	GND	A7	GND
A8	VAC 2	A8	VAC 2
B1	TXD	B1	RXD
B2	RTS	B2	CTS
B3	DTR	B3	DSR
B4	GND	B4	GND
B5	GND	B5	GND
B6	VAC 1	B6	VAC 1
B7	GND	B7	GND
B8	VAC 2	B8	VAC 2

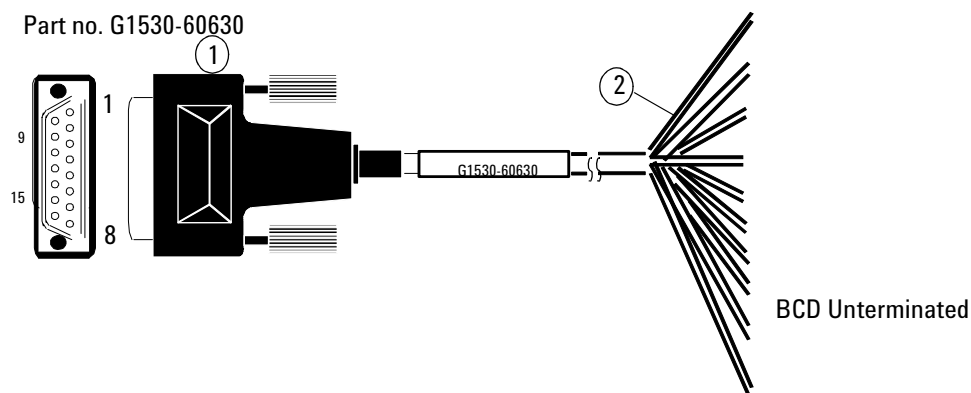
BCD Inputs

6890A and 6890 Plus

The BCD cable is used to read the position of a stream selection valve, headspace sampler, or other device. It consists of eight passive inputs that sense open/closed contacts.

If you are using a multiposition (stream selection) valve, you must also have an external event cable.

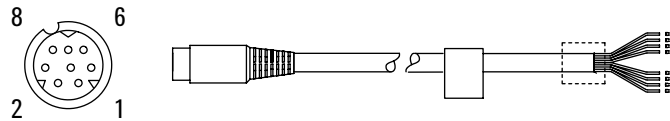
Part no. G1530-60630



Connector 1 15 pin (male)	Signal name	Logic	Color
1	LS digit 0	Low (true)	Black
2	LS digit 1	Low (true)	Brown
3	LS digit 2	Low (true)	Red
4	LS digit 3	Low (true)	Orange
5, 6, 7	Unused		
8	Ground		Gray
9, 10, 11	Unused		
12	MS digit 0	Low (true)	Yellow
13	MS digit 1	Low (true)	Green
14	MS digit 2	Low (true)	Blue
15	MS digit 3	Low (true)	Violet

6890N

The connector provides the control relays and a BCD input for a stream selector Multi Valve.

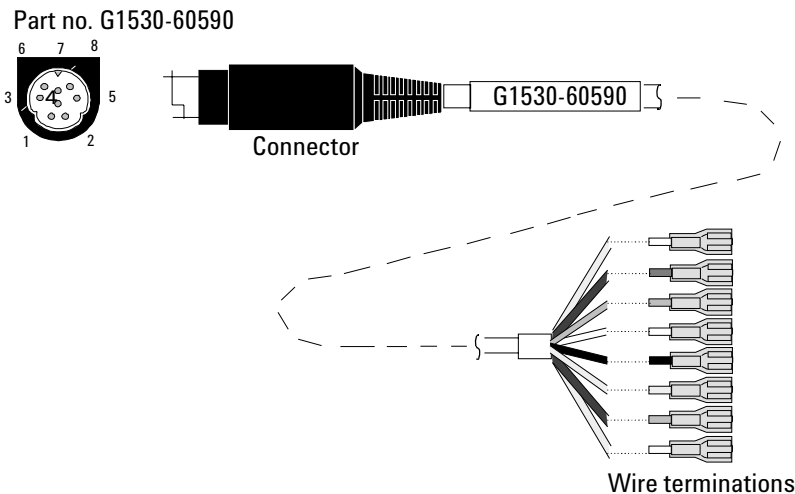


BCD Connector

Pin	Function	Color	Maximum rating
1	Relay	Yellow	48 V AC/DC, 250 mA
2	Relay	Black	48 V AC/DC, 250 mA
3	LS digit 0	Red	
4	LS digit 1	White	
5	LS digit 2	Orange	
6	LS digit 3	Green	
7	MS digit 0	Brown or Violet	
8	GND	Blue	
Shield	Chassis GND		

External event

Two passive relay contact closures and two 24-volt control outputs are available for controlling external devices. Devices connected to the passive contact closures must be connected to their own power source.



Connector	Signal name	Maximum rating	Wire terminations	Corresponds to valve #
24 volt control output				
1	24 volt output 1	75 mA	Yellow	5
2	24 volt output 2	75 mA	Black	6
3	Ground		Red	
4	Ground		White	
Relay contact closures (Normally open)				
5	Contact closure 1	48V ac/dc, 250 mA	Orange	7
6	Contact closure 1		Green	7
7	Contact closure 2	48 V ac/dc, 250 mA	Brown or Violet	8
8	Contact closure 2		Blue	8

Modem/RS-232C

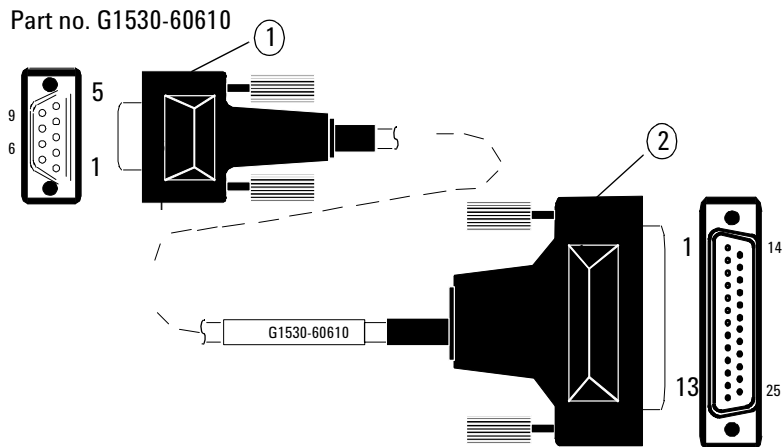
Cable pinouts, 6890 GC to Computer via RS-232, 9-pin/9-pin

Part no. G1530-60600



Connector 1 — 9 pin (female)	Connector 2 — 9 pin (female)
1 — DCD	4 — DTR
6 — DSR	
2 — Rx	3 — Tx
3 — Tx	2 — Rx
4 — DTR	6 — DSR
	1 — DCD
5 — Ground	5 — Ground
7 — RTS	8 — CTS
8 — CTS	7 — RTS
9 — RI	

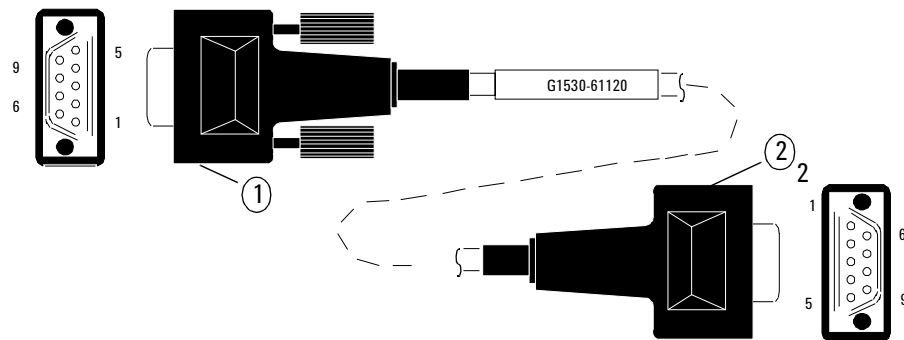
Cable pinouts, 6890 GC to Computer via RS-232, 9-pin/25-pin



Connector 1 — 9 pin (female)	Connector 2 — 25 pin (male)
1 — DCD	20 — DTR
6 — DSR	
2 — Rx	2 — Tx
3 — Tx	3 — Rx
4 — DTR	6 — DSR
	8 — DCD
5 — Ground	7 — Ground
7 — RTS	5 — CTS
8 — CTS	4 — RTS
9 — RI	

Cable pinouts, 6890 GC to Modem, 9 pin/9-pin

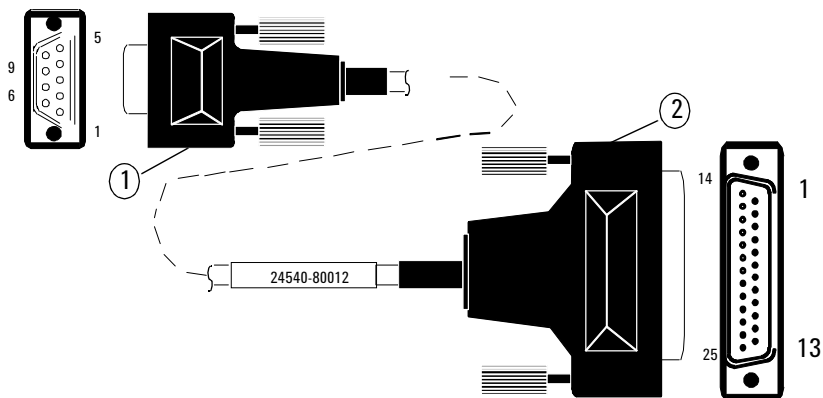
Part no. G1530-61120



Connector 1 — 9 pin (female)	Signal name	Connector 2 — 9 pin (male)
1	DEC	1
2	RxD	2
3	TxD	3
4	DTR	4
5	GND	5
6	DSR	6
7	RTS	7
8	CTS	8
9	RI (Unused)	9

Cable pinouts, 6890 GC to Modem, 9-pin/25-pin

Part no. 24540-80012 or 24542M

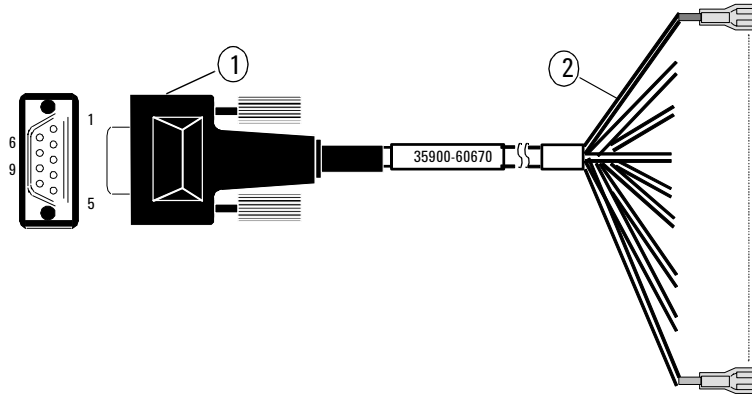


Connector 1 — 9 pin (female)	Signal name	Connector 2 — 25 pin (male)
1	DCD	8
2	RxD	3
3	TxD	2
4	DTR	20
5	GND	7
6	DSR	6
7	RTS	4
8	CTS	5
9	(Unused)	22

Remote

Cable pinouts, remote start/stop, general use

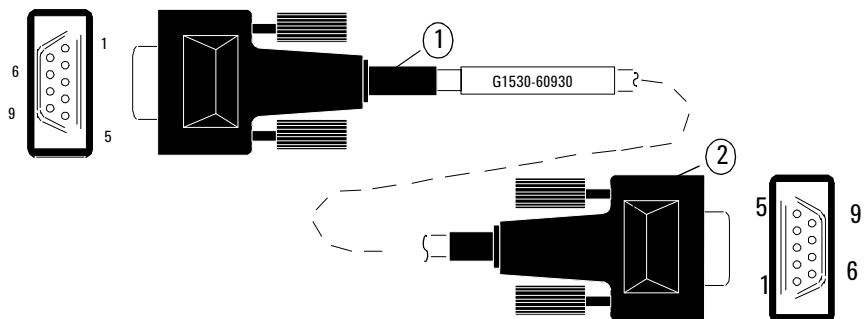
Part no. 35900-60670



Connector 1 9 pin (male)	Signal name	Connector 2 (spade lugs)
1	GND	Black
2	Prepare (low true)	White
3	Start (low true)	Red
4	Shut down (6890A/Plus); start relay (6890N)	Green
5	Reserved (6890A/Plus); start relay (6890N)	Brown
6	Power on (6890A/Plus); no connection (6890N)	Blue
7	Ready (high true input)	Orange
8	Stop (low true)	Yellow
9	Start request (6890A/Plus); no connection (6890N)	Violet

Cable pinouts, GC to 35900C, D, E/MSD/Sampler, 2 meters

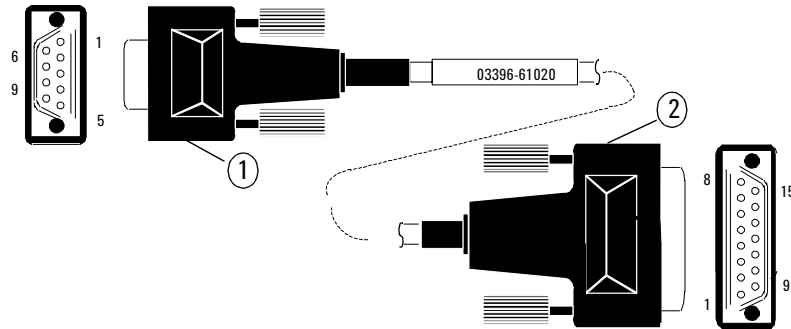
Part no. G1530-60930



Connector 1 (male)	Signal name	Connector 2 (male)
1	GND	1
2	Prepare	2
3	Start	3
4	Shut down (6890A/Plus); start relay (6890N)	4
5	Reserved (6890A/Plus); start relay (6890N)	5
6	Power on (6890A/Plus); no connection (6890N)	6
7	Ready	7
8	Stop	8
9	Start request (6890A/Plus); no connection (6890N)	9

Cable pinouts, 6890 GC to 3395A/3396B Integrator

Part no. 03396-61020

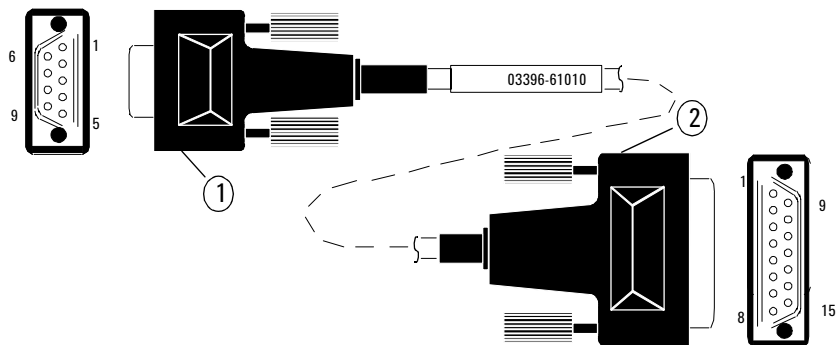


Connector 1 9 pin (male)	Signal name	Connector 2 15 pin (male)
1	GND	9 — Ground
2	Prepare	NC*
3	Start	3 — Start in
4	Shut down (6890A/Plus); start relay (6890N)	NC*
5	Reserved (6890A/Plus); start relay (6890N)	NC*
6	Power on (6890A/Plus); no connection (6890N)	NC*
7	Ready	14 — Ready out
8	Stop	NC*
9	Start request (6890A/Plus); no connection (6890N)	NC*

*NC = no connection

Cable pinouts, 6890 GC to 3395B/3396C Integrator

Part no. 03396-61010

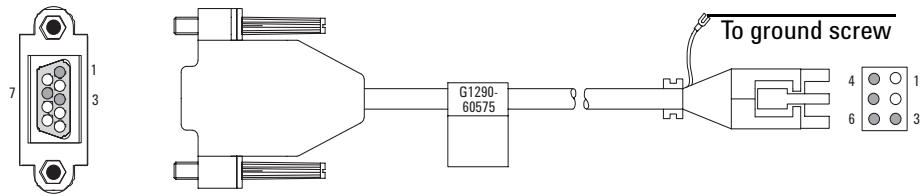


Connector 1 9 pin (male)	Signal name	Connector 2 15 pin (male)
1	GND	9 — Ground
2	Prepare	NC*
3	Start	3 — Start in
4	Shut down (6890A/Plus); start relay (6890N)	NC*
5	Reserved (6890A/Plus); start relay (6890N)	NC*
6	Power on (6890A/Plus); no connection (6890N)	NC*
7	Ready	14 — Ready out
8	Stop	4 — STOP2 In
9	Start request (6890A/Plus); no connection (6890N)	NC*

*NC = no connect

Cable pinouts, 6890 GC to 7694 Headspace Sampler

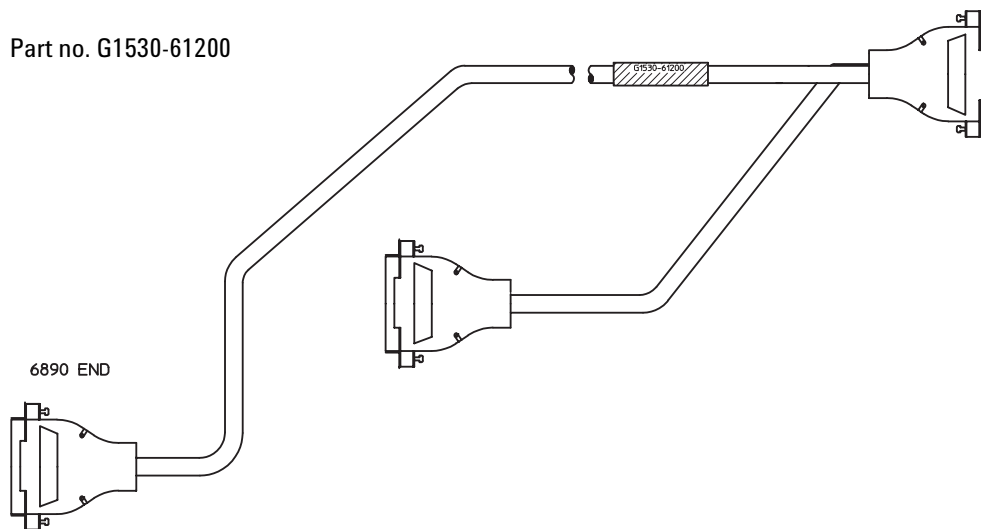
Part no. G1290-60575



Connector 1 3-pin male	Signal name	Connector 4-pin male
1	GND	4, 5
3	Start	6
7	Ready	3

Cable pinouts, APG Remote Y-cable

Part no. G1530-61200



Connector 1 9 pin (male)	Signal name
1	GND
2	Prepare
3	Start
4	Shut down (6890A/Plus); start relay (6890N)
5	Reserved (6890A/Plus); start relay (6890N)
6	Power on (6890A/Plus); no connection (6890N)
7	Ready
8	Stop
9	Start request (6890A/Plus); no connection (6890N)
