

STARLOG

Cable Schematics & Pinouts

Model 6602 series

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1. INTRODUCTION

These ready-made cables (the Model 6602 series) interconnect various pieces of a STARLOG Data Logging System. The information in this supplement details the construction and interconnection of these cables.

The next section describes cables which are connected to a Portable Data Logger (PDL). Section 3 describes cables which are connected to either a STARLOGGER, MACRO Data Logger, MODEM, or Remote Telemetry Unit.

Other cables are available for connecting STARLOG instruments to a Data Logger. The Model 6603 STARLOG Quick-Link «SQL» interconnection system is described in supplement 6242. Also available is the 6600 series which extends instrument cable.

1.1. List of Cables

Model	From	To	page
6602A	STARLOGGER MACRO RSI or MODEM	IBM PC/XT or compatibles 25 pin serial port	5
6602I	STARLOGGER MACRO RSI or MODEM	IBM PC/AT or compatibles 9-pin serial port	5
6602K	Portable Data Logger	IBM PC (9600 Baud)	3
6602L	Portable Data Logger	Modem (300 Baud)	3
6602M	Portable Data Logger	Modem (1200 Baud)	4
6602S	Portable Data Logger	Remote Telemetry Unit	4
6602T	STARLOGGER/MACRO	Remote Telemetry Unit	6
6602W	STARLOGGER/MACRO 25D plug	Modem 9600bps 25D plug	6
6602X	STARFLOW 9D plug	Modem 9600bps 25D plug	6

2. CABLES FOR A PORTABLE DATA LOGGER

These cables contain the Model 6804D PDL Direct Interface which is a Printed Circuit Board (PCB) built into a cable shroud. There are 4 connection points (1 to 4) and 6 links on the PCB. The cable connection and link installation is described below.

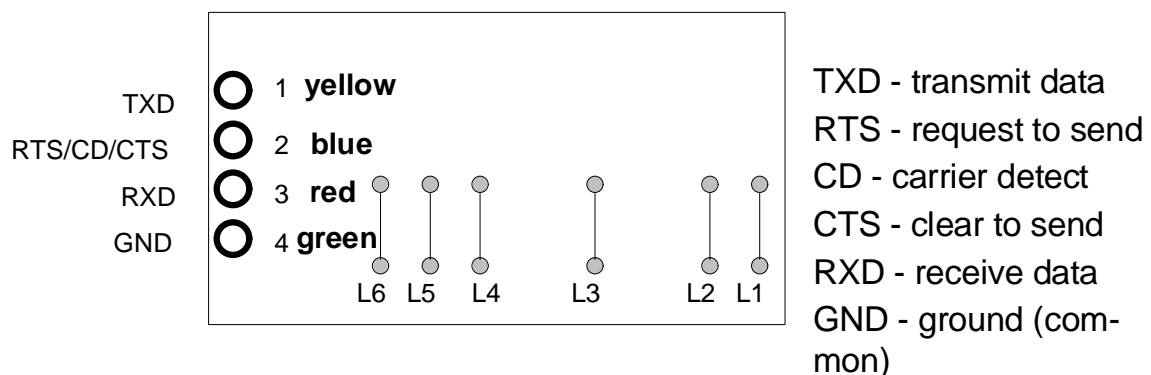
2.1. Part List

Item	Part	Description
1	25 pin socket	'D' type, solder tab
2	25 pin plug	'D' type, solder tab (model 6601A)
3	shroud	straight entry
4	XC-940 cable	CANON accessory (model 6602B)
5	4 core cable	7x0.2mm,shielded multicore (model 6600B)
6	PCB 6032 assembly	PCB, D socket & right angle shroud
7	heatshrink	30mm, 6x3mm adhesive lined heatshrink

2.2. General

Generally the links are installed for the desired operation. Links L1 and L2 remain for non RS-232 signals but are cut for RS-232 devices (eg. MODEM, COMPUTER). Links L3 to L6 are used for baud rate selection as follows:

- 300 baud - L6 installed (eg. model 6602L, PDL/MODEM)
- 1200 baud - L5 installed (eg. model 6602M, PDL/MODEM)
- 8000 baud - L4 installed (eg. model 6602E, PDL/FTU)
- 9600 baud - L3 installed (eg. model 6602K, PDL/IBM)



2.3. Model 6602K - PDL to IBM cable (9600 Baud)

Connect 25-pin D connector socket as shown.

25-Pin	PCB	Wire			Link	
		Use	9-pin	Colour		
3	1	RXD	2	yellow	L1	cut
20	2	RTS	7	blue	L2	cut
2	3	TXD	3	red	L3	installed
7	4	COM	5	green	L4	cut
1		GND	5	shield	L5	cut
					L6	cut

Note - shroud at IBM side should be fitted with lockscrew assembly, clamped and strain relieved.

9-pin listings are pinouts for a 9-pin socket.

2.4. Model 6602L - PDL to Modem cable (300 baud)

Connect 25-pin D connector plug as shown.

Pin	PCB	Wire		Link	
		Use	Colour		
2	1	RXD	yellow	L1	cut
8	2	CD	blue	L2	cut
3	3	TXD	red	L3	cut
7	4	COM	green	L4	cut
1		GND	shield	L5	cut
				L6	installed

Note - shroud at IBM side should be fitted with lockscrew assembly, clamped and strain relieved.

2.5. Model 6602M - PDL to Modem cable (1200 baud)

Pin	PCB	Wire to PCB		Link	
		Use	Colour		
2	1	RXD	yellow	L1	cut
8	2	CD	blue	L2	cut
3	3	TXD	red	L3	cut
7	4	COM	green	L4	cut
1		GND	shield	L5	installed
				L6	cut

2.6. Model 6602S – PDL to RTU

This 26 way to 25 way socket connects a Portable Data Logger to a Remote Telemetry Unit. Pins 15 and 17 are removed from the 26 way socket before crimping.

3. OTHER CABLES

These cables interconnect the STARLOGGER (Model 6004), MACRO Data Logger (Model 7000) and RSI interface (usually on a Portable Data Logger) with computers, modems and the Remote Telemetry Unit (Model 6804). They have no PCB built into them.

3.1. Model 6602A RSI/Modem to RS-232 Cable (9600 Bps)

RSI/Modem 25-pin plug	Wire		RS-232 25-pin socket
	Function	Colour	
2 ←	TXD	red	2
3 →	RXD	yellow	3
7	GND	shield	7
4 ←	RTS	green	4
5 →	CTS	blue	5

3.2. Model 6602I RSI/Modem to IBM AT Cable (9600 Baud)

RSI/Modem 25-pin plug	Wire		IBM AT 9-pin socket
	Function	Colour	
2 ←	TXD	red	3
3 →	RXD	yellow	2
7	GND	shield	5
4 ←	RTS	green	7
5 →	CTS	blue	8

3.3. Model 6602T – STARLOGGER/MACRO to RTU

This 26 way socket to 25 way plug connects a STARLOGGER or MACRO Data Logger to a Remote Telemetry Unit. The following pins are removed from the socket before crimping: 6,7,19 and 20.

3.4. Model 6602W -STARLOGGER/MACRO to Modem (null)

STARLOGGER/MACRO		Wire Colour	Modem	
Pin	Function		Pin	Function
7/1	GND	green/shield	7	GND
2	Rx	red	3	Tx
3	Tx	yellow	2	Rx
4	RTS	blue	8	CD

3.5. Model 6602X–STARFLOW to Modem (null)

STARFLOW		Wire Colour	Modem	
Pin	Function		Pin	Function
5	GND	blue	7	GND
3	Tx	red	3	Rx
2	Rx	brown	2	Tx
7	RTS	purple	8	CD

4. 25 PIN TO 9 PIN CONNECTOR EQUIVALENTS

25-pin	9-pin	Description
8	1	carrier detect
3	2	receive data
2	3	transmit data
20	4	data terminal ready
7	5	ground
6	6	data set ready
4	7	request to send
5	8	clear to send
22	9	ring indicator

Using RS-232C standards

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