

 **LINN PRODUCT SOFTWARE**

RS232 ASCII Interface Cable Types Specification
Version 1.2

Last Revision: 9th September 2007

REVISION HISTORY

Rev. No.	Description	Author	Date
1.0	First Issue	Barry W Christie	15/01/99
1.1	Second Issue	Barry W Christie	01/02/99
1.2	Third Issue	Jerry Burn	04/9/07

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Introduction

This document describes the three types of cable that are used with the RS232 Interface.

There are two main sections to this document:

1: Cable Types And Use

This section describes the various types of cable and what they are used for.

2: Cable Specifications

This section specifies the connectors, type of cable used and also the physical connections between pins of the connectors.

1: Cable Types and Use

1.1: Software Upload Cable

This cable, together with the relevant software, enables new versions of software to be uploaded into a product.

The cable is connected to the host and then to the product via the RS232-C_IN port.

Please refer to appropriate documentation for the software upload procedure.

1.2: Host To Product Cable

This cable, together with the relevant software, enables the user to control one or more products from the host.

The cable is connected to the host and then to the product via the RS232-C_IN port.

Please refer to appropriate documentation for each product command set (**'product'- RS232 ASCII Interface Specification And Commands**)

1.3: Product To Product Cable

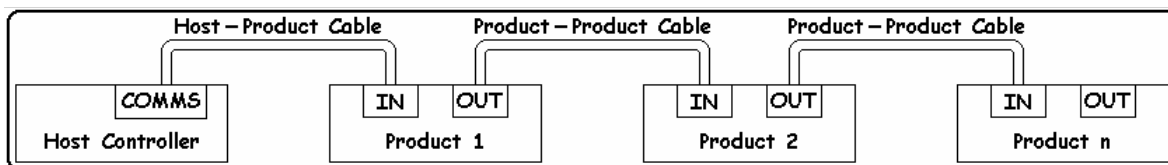
This cable, together with the relevant software, enables the user to add subsequent products to the existing daisy-chain of products.

The cable is connected from the RS232-C_OUT port of one product to the RS232-C_IN port of the next product.

Please refer to appropriate documentation for each product command set (**Product - RS232 ASCII Interface Specification And Commands**)

1.4: Product Connection Outline

The following diagram shows how the 'Host To Product' and 'Product To Product' cables are utilised.



2: Cable Specifications

2.1: Software Upload Cable (Linn Part – Conn 439)

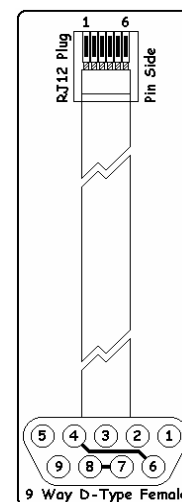
This cable uses a 6-way cable, an RJ12 connector and a 9-way D-type female connector.

The connections are as follows:	RJ12	D-type
(Short to pin6)	Pin 1	No connection
	Pin 2 (TXD)	Pin 2 (RXD)
	Pin 3 (RXD)	Pin 3 (TXD)
	Pin 4	No connection
	Pin 5 (GND)	Pin 5 (GND)
(Short to pin1)	Pin 6	No connection

An insulated wire link should be used to join together pins 4 and 6, and also pins 7 and 8 of the D-type connector.

Important

The wires from Pin 1 and Pin 6 of the RJ12 connector should be joined together at the D-type connector end and insulated. **NO** connection should be made to the D-type connector.

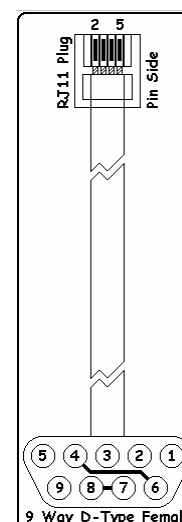


2.2: Host to Product Cable (Linn Part – Conn 294)

This cable uses a 4-way cable, an RJ11 connector and a 9-way D-type female connector.

The connections are as follows:	RJ11	D-type
	No pin	No connection
	Pin 2 (TXD)	Pin 2 (RXD)
	Pin 3 (RXD)	Pin 3 (TXD)
	Pin 4	No connection
	Pin 5 (GND)	Pin 5 (GND)
	No pin	No connection

An insulated wire link should be used to join together pins 4 and 6, and also pins 7 and 8 of the D-type connector.



2.3: Product to Product Cable (Linn Part - Conn 464)

This cable uses a 4-way cable, and two RJ11 connectors.

The connections are as follows:	RJ11	RJ11
	No pin	No connection
	Pin 2	Pin 5
	Pin 3	Pin 4
	Pin 4	Pin 3
	Pin 5	Pin 2
	No pin	No connection

Note: In the RS Components Catalogue, the **RJ12** connector is referred to as an **RJ11- 6/6** connector and the **RJ11** connector is referred to as an **RJ11- 6/4** connector

