



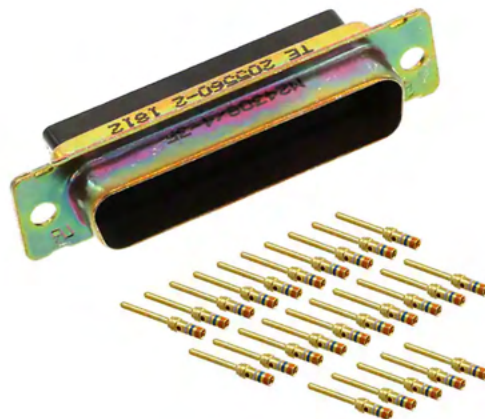
# Universal Payload Connector

## 1.1 25P

### Spec Sheet

This datasheet describes the payload connections on the bottom of the IF750 1.8.

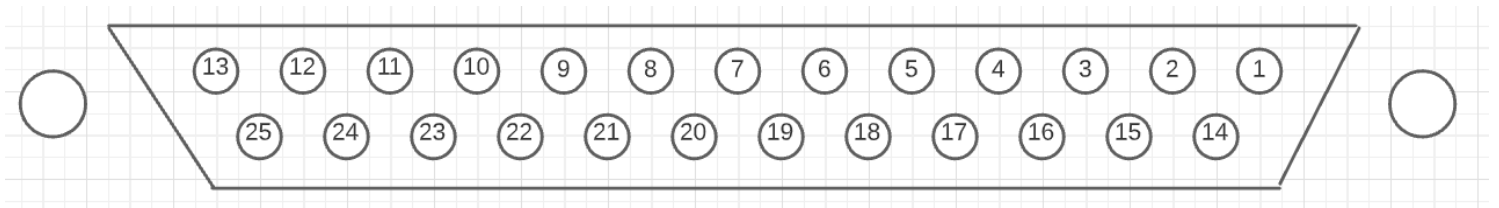
Each vehicle is outfitted with a XX long cable, just above the bottom payload plate, that has a TE Connectivity Aerospace: Amplimite 109 connector . The connector has 25 pins that can be used for wiring any payload. The pinout and descriptions of each pin are listed below.



Connector Type:

Connector Manufacturer	TE Connectivity Aerospace
Manufacturer Part Number	<a href="#">205560-2</a>
Series	AMPLIMITE109
Connector Type	Male Pins
Contact Type	Signal
Number of Positions	25
Number of Rows	2
Current Rating(per pin)	5A

Connector Pinout:



Pin	Signal	Description	Notes
1		N/C	No connection from flight core
2		N/C	
3		N/C	
4		N/C	
5	5V	5V Regulator on PDB <b>Max Current: 5A</b>	
6	12V	12V <b>Max Current: 5A</b>	
7		N/C	
8		N/C	
9	BAT	6S <b>Max Current: 5A</b>	
10	UPI_UART1_TXD	Flight Core UART1	UART2_4W_TX_3V3
11	UPI_UART1_RXD	Flight Core UART1	UART2_4W_RX_3V3
12	UPI_UART2_TXD	Flight Core UART2	UART4_2W_TX_3V3
13	UPI_UART2_RXD	Flight Core UART2	UART4_2W_RX_3V3

14	GND	PDB GND	
15	GND	PDB GND	
16	GND	PDB GND	
17	5V	5V Regulator on PDB <b>Max Current: 5A</b>	
18	12V secondary	12V	
19	GND	PDB GND	
20	GND	PDB GND	
21		N/C	
22	GND	PDB GND	
23	GND	PDB GND	
24	GND	PDB GND	
25	SBUS	HereLink Air Unit SBUS	Gimbal Control

**Notes:**

- All grounds could be connected together
- 5v rail is shared on pin 17 and 5
- 12v rail is shared on pin 6 and 18
- Battery voltage is 6s

**Sony w/ S1 or T3**

- Battery voltage
- UART 2 pins 12 and 13
- SBUS pins 25 and 24

**WWE w/ T3**

- Battery voltage
- UART 1 pins 10 and 11
- SBUS pins 25 and 24