SMT Designs Standard Color Code for Electronic Bays and Interconnects Revision 1.0 June, 30, 2018

Switches - Single Throw- Off/On (SPST)

Color	Purpose	Connector Pin
Green	Positive Battery Power In	Common
Green	Positive Switched Power Out	Normally Open

Switches - Double Throw - ON/Off/On (SPDT)

Color	Purpose	Connector Pin
Green	Positive Battery Power In	Common
Red	Positive Switched Power Out	Normally Open
White	Positive Switched Power Out	Normally Closed

Socket Sled Connector (female)

Color	Purpose	Connector Pin
Red	Positive Power - Altimeter	1
White	Positive Power – Pyro Battery ¹	2
Black	Negative Power - Ground	3
Gray	Status/IO 1 ²	4
Violet	Status/IO 2 ²	5
Yellow	Apogee +	6
Orange	Apogee -	7
Blue	Main +	8
Brown	Main -	9

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Color	Purpose	Connector Pin
Red	Positive Power - Altimeter	1
White	Positive Power – Pyro Battery ¹	2
Black	Negative Power - Ground	3
Gray	Status/IO 1 ²	4
Violet	Status/IO 2 ²	5
Yellow	Apogee +	6
Orange	Apogee -	7
Blue	Main +	8
Brown	Main -	9

Pin End Plate Connector (male) - Single & Dual Deploy

Pin End Plate Connector (male) - Redundant Dual Deploy – L3 - Primary Altimeter

Color	Purpose	Connector Pin
Red	Positive Power - Altimeter	1
White	Positive Power – Pyro Battery ¹	2
Black	Negative Power - Ground	3
Gray	Status/IO 1 ²	4
Violet	Status/IO 2 ²	5
Yellow	Apogee +	6
Yellow	Apogee -	7
Blue	Main +	8
Blue	Main -	9

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Pin End Plate Connector (male) - Redundant Dual Deploy – L3 - Secondary Altimeter

Color	Purpose	Connector Pin
Red	Positive Power - Altimeter	1
White	Positive Power – Pyro Battery ¹	2
Black	Negative Power - Ground	3
Gray	Status/IO 1 ²	4
Violet	Status/IO 2 ²	5
Orange	Apogee +	6
Orange	Apogee -	7
Brown	Main +	8
Brown	Main -	9

Status/IO Connection Recommendations – Serial Port

Color	Purpose	Connector Pin
Gray	Serial Data Out ³	4
Violet	Serial Data In ³	5

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¹ Not all altimeters support a separate battery for the main and apogee deployment connections. If support is not available, SMT Designs recommends connecting pin 2 on the end plate connector to positive power, so that any SMT Designs sled will work in the bay you are designing.

² Status/IO are two lines that can be used in a couple of different ways. My initial use was to have a centrally located LED that would either be added to or replace a LED on an altimeter due to my hearing. A quite different (but very valid) use is to have the two connections be a serial link to the altimeter on the sled as more and more manufacturers add telemetry connections to their altimeters. Look at my connection recommendations above.

³ Please check with your manufacturer for details on how to use their serial connections. The serial data lines are usually direct digital lines and are typically based on a 3.3 volt or 5 volt microprocessor power supply. They should be referenced to negative power (ground).