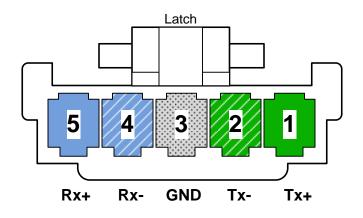
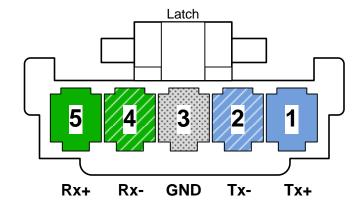
Full Duplex RS-485 Standard Connector



Sherlock 5P Receptacle (Back)

Master Side (CPC)



Sherlock 5P Receptacle (Back)

Slave Side (All Other Devices)

Parameters

Cable Type: Cat5e, 4-Pair SSTP, 24AWG Contacts: Sherlock Socket (Molex 50212-8000)

Connectors: Sherlock 5-Pin Wire Housing (Molex 35507-1500)

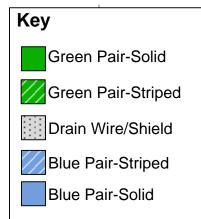
Relevant Cables

Master Side: DAT-ARM, DAT-LBOG, DAT-BBOG, DAT-

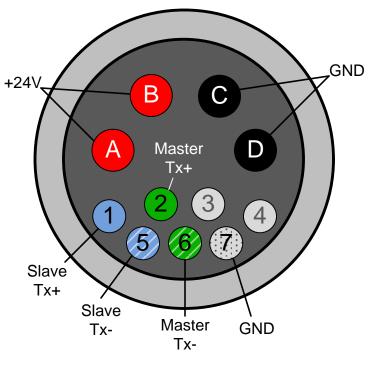
RBOG, DAT-INT, DAT-TRI

Slave Side: DAT-INT, DAT-BOGCTL(1-6), DAT-ARMBASE, DAT-

WRIST, DAT-TRICTL



Bogie-Electrical Housing Connector



LF-13 (Check Pin Designator)

Parameters

Cable Type: Cat5e, 4-Pair SSTP, 24AWG, 16AWG Machine

Tool Wire, 22AWG Shielded Audio Cable

Connectors: Hirose LF13-11(LF13WBR-11S and LF13WBP-

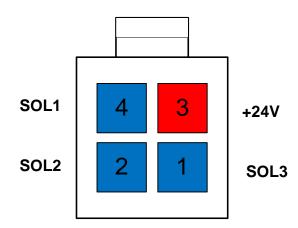
11P)

Relevant Cables

DAT-LBOG, DAT-RBOG, DAT-BBOG, +24VDIST, GND, CMP-LBOG, CMP-RBOG, CMP-BBOG

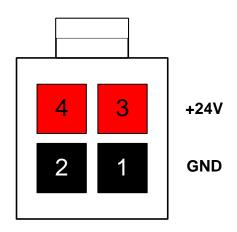


Solenoid Driver Connectors



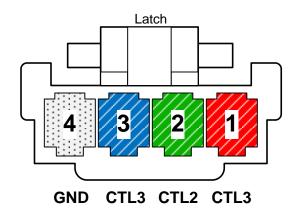
Minifit Jr. 4P2R Receptacle (Back)

Solenoid Driver Output



Minifit Jr. 4P2R Receptacle (Back)

Solenoid Driver Power



Sherlock 4P Receptacle (Back)

Parameters

Cable Type: 16AWG Machine Tool Wire, 24AWG 4-Cond.

Shielded Cable

Contacts: Sherlock Sockets (Molex 50212-8000), Molex Minifit

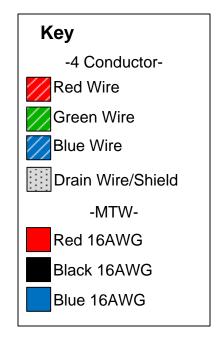
Jr. Sockets

Connectors: Sherlock 4P Receptacle (Molex 35507-0400),

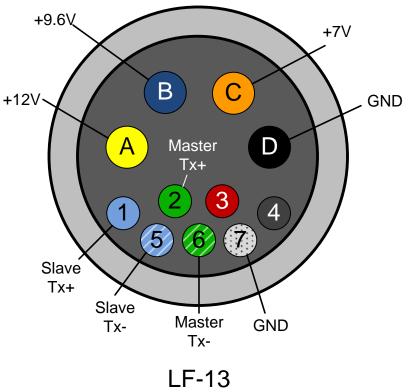
Minifit Jr. 4P2R Receptacle

Relevant Cables

PWR-SOL1, PWR-SOL2, DRV-SOL1, DRV-SOL2, CTL-SOL1, CTL-SOL2



Tripod-Electrical Housing Connector



LF-13 (Check Pin Designator)

Parameters

Cable Type: Cat5e, 4-Pair SSTP, 24AWG, 16AWG Machine

Tool Wire

Connectors: Hirose LF13-11(LF13WBR-11S and LF13WBP-

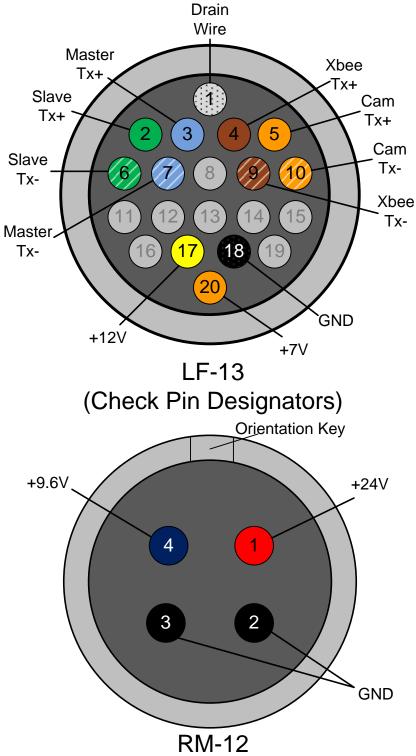
11P)

Relevant Cables

DAT-TRI, CMP-TRI, +12V, +9.6V, +7V, GND



Arm-Electrical Housing Connectors





Parameters

Cable Type: Cat5e, 4-Pair SSTP, 24AWG, 16AWG Machine

Tool Wire

Connectors: Hirose LF13-11(LF13WBR-11S and LF13WBP-

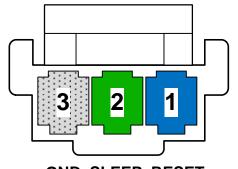
11P)

Relevant Cables

DAT-ARM, DAT-XBEE, CMP-ARM, +24V, +12V, +9.6V, +7V, GND



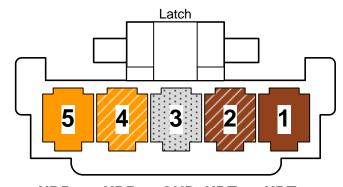
XBee Interface Board I/O Connectors



Same on CPC Board Side

Sherlock 3P Receptacle (Back)

XBee Control Connector



Sherlock 5P Receptacle (Back)

XBee RS-485 Connector

Parameters

Cable Type: Cat5e 4-Pair SSTP 24AWG, 4 Conductor Shielded

Cable

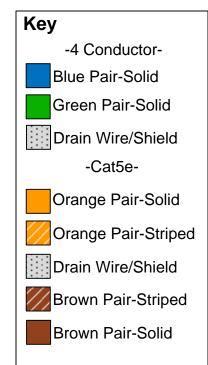
Contacts: Sherlock Receptacle (Molex 50212-8000)

Connectors: Sherlock 3-Pin Wire Housing (Molex 35507-0300)

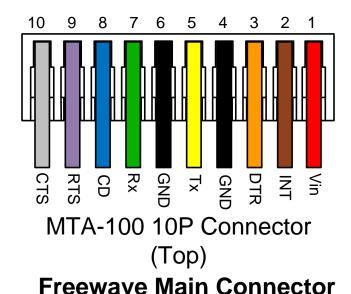
, Sherlock 5-Pin Wire Housing (Molex 35507-1500)

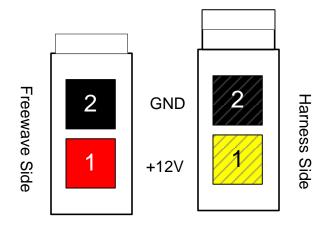
Relevant Cables

DAT-XBEE,CTL-XBEE

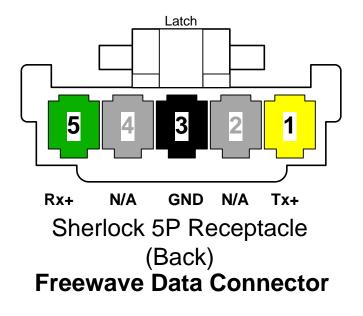


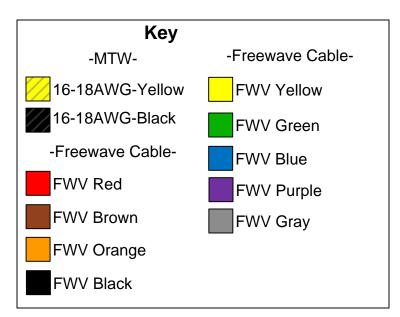
Freewave Connectors





Minifit Jr. 2P2R
Receptacle (Back)
Freewave Power Connector





Parameters

Cable Type: 10 wire Freewave Cable

Contacts: Sherlock Receptacle (Molex 50212-8000)

Connectors: MTA-100 (Freewave Cable)

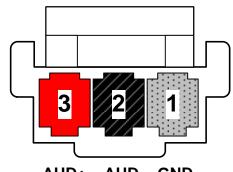
, Sherlock 5-Pin Wire Housing (Molex 35507-1500), Minifit-Jr. 2-

Pin Wire Housing

Relevant Cables

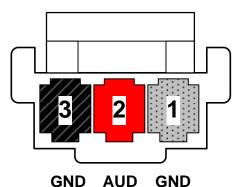
DAT-FWV, PWR-FWV

MUX Audio Connectors



Sherlock 3P Receptacle (Back)

Differential Audio Input



Sherlock 3P Receptacle (Back)

Single-Ended Audio Output

Parameters

Cable Type: Shielded Audio Cable, 1 Pair 20-22AWG Red/

Black, 18AWG MTW

Contacts: Sherlock Sockets (Molex 50212-8000), Minifit Jr.

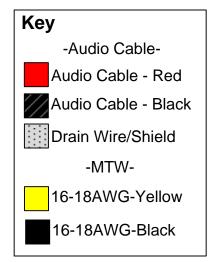
Sockets

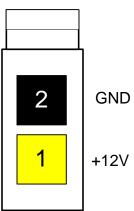
Connectors: Sherlock 3-Pin Wire Housing (Molex 35507-0300),

Minifit Jr. 2P Plug

Relevant Cables

AV-DIFFAU, AV-SEAU, PWR-MUX

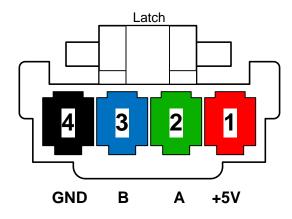




Minifit Jr. 2P2R Receptacle (Back)

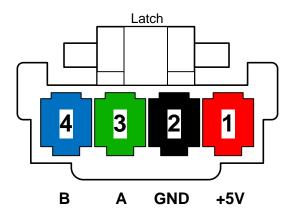
Mux Power

Bogie Controller I/O Connectors



Sherlock 4P Receptacle (Back)

Turn Motor Encoder Connector



Sherlock 4P Receptacle (Back)

Drive Motor Encoder Connector

Parameters

Cable Type: 4 Conductor 24AWG Shielded, 16AWG MTW

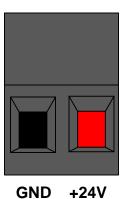
Contacts: Sherlock Sockets (Molex 50212-8000)

Connectors: Sherlock 4-Pin Wire Housing (Molex 35507-0400),

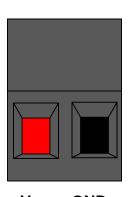
Motor Interface Terminal Blocks

Relevant Cables

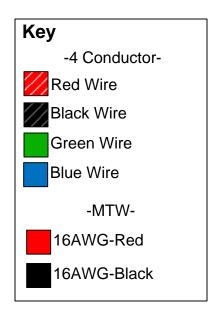
SIG-TENC1-6, SIG-PENC1-6, DAT-MTRCTL1-12, PWR-MTRCTL1-6, PWR-MTRDRV1-6



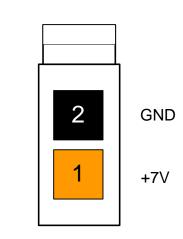
Power Input



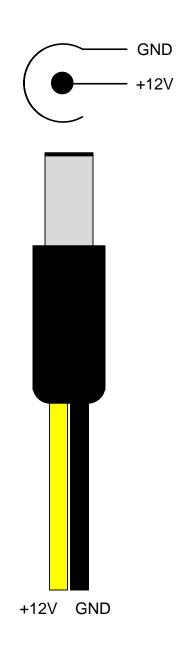
V+ GND Power Output



Miscellaneous Internal Power Connectors



Minifit Jr. 2P2R Receptacle (Back) CPC/XBee Power



Parameters

Cable Type: 16-18AWG MTW Contacts: Minifit Jr. Sockets

Connectors: Minifit Jr. 2P Plug, 2.1mm Barrel Plug

Relevant Cables

PWR-CPC, PWR-FWV, PWR-VID