

Technical Note

RFP™ Mating Connectors for FPDC



PURPOSE

Provide mating connector information for the RFP™ Fixed Power DC module.

MATING CONNECTOR KIT

Part Number 5380274-01

J1 CONTROL CONNECTOR

Connector: Positronic P/N SD9M1000Z, Elgar P/N 856-214-09

Backshell: Positronic P/N D90Z000, Elgar P/N 856-247-10

Wire size: Recommended 22 AWG, maximum cable length 10 meters.

J1 PINOUT

Pin	Signal	Description
1	ENAB*	Enable module output
2	RESERVED	
3	RESERVED	
4	RESERVED	
5	CHAS GND	Chassis Ground
6	ENAB RTN*	Enable module output return
7	RESERVED	
8	RESERVED	
9	RESERVED	

* Enable signal is internally pulled up to +5V with a 10 K resistor. To enable the module, the signal is pulled low ($\leq 0.5V$) with respect to the ENAB RTN signal.

RECOMMENDED TOOLS

Hand Crimp Positronic P/N 9507-0-0-0

Pneumatic Crimp Positronic P/N 9550-1-0

Insertion/extraction Positronic P/N M81969/1-02

POWER EVOLVED

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J2 POWER CONNECTOR

Connector: Positronic P/N CBC21WA4M1000Z, Elgar P/N 856-214-04 (crimp signal contacts)

Pins 1 – 17: Positronic P/N MC6020D, Elgar P/N 856-214-04

Wire size: recommended maximum gauge 20 AWG

Pins A1 – A4: Positronic P/N MC4012D, Elgar P/N 856-745-52

Wire size: recommended gauge 12 AWG

Backshell: Positronic P/N D37000Z00, Elgar P/N 856-247-39

Maximum cable length: 10 meters.

J2 PINOUT

PIN		
1	+15V	+15V Positive Output derived after disconnect relay
2	+15V RTN	+15V Return
3	-15V	-15V Negative Output derived after disconnect relay
4	-15V RTN	-15V Return
5	+5V S+	+5V Positive Sense connected after local-remote sense relay
6	-5V S-	-5V Negative Sense connected after local-remote sense relay
7	+15V S+	+15V Positive Sense connected after local-remote sense relay
8	-15V S-	-15V Negative Sense connected after local-remote sense relay
9	CHAS GND	Chassis ground
10	+15V	+15V Positive Output derived after disconnect relay
11	+15V RTN	+15V Return
12	-15V	-15V Negative Output derived after disconnect relay
13	-15V RTN	-15V Return
14	+5V S RTN	+5V Sense Return
15	-5V S RTN	-5V Sense Return
16	+15V S RTN	+15V Sense Return
17	-15V S RTN	-15V Sense Return
A1	+5V	+5V Positive Output derived after disconnect relay
A2	+5V RTN	+5V Return Output
A3	-5V	-5V Positive Output derived after disconnect relay
A4	-5V RTN	-5V Return

RECOMMENDED TOOLS

Pins 1 - 17 Hand Crimp: Positronic P/N 9507-0-0-0, Pneumatic crimp: Positronic P/N 9550-1-0

Pins A1 – A3 Insertion/extraction: Positronic P/N 4711-2-0-0

Pin A4 Extraction Positronic P/N 4311-0-0-0

POWER EVOLVED