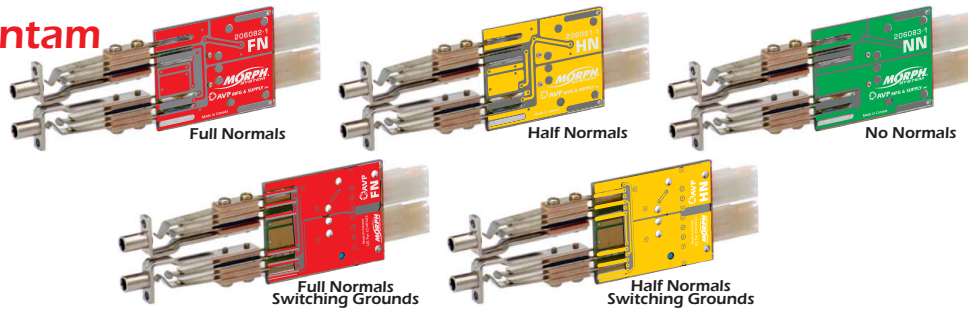
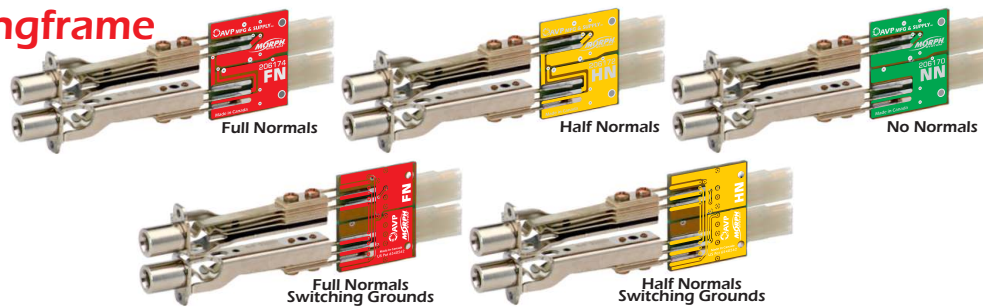


- Advanced Audio Patchbay Concept
- Next Generation Flexibility
- AES/EBU Digital and Analog Audio Application

Bantam



Longframe

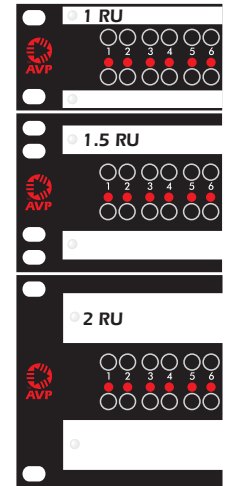
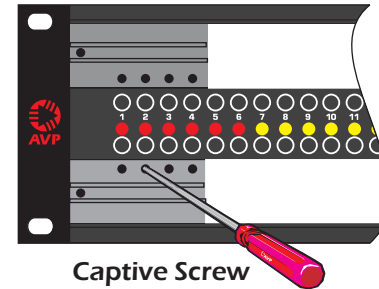


Application: AES/EBU, Analog

- Morph modules can be effortlessly identified, mixed and changed. Entire racks of jackfields can be re-configured anytime
- EDAC/ELCO 3 pin interface
- Modules are front mounted, providing a simple module interchange method
- Maximized designations

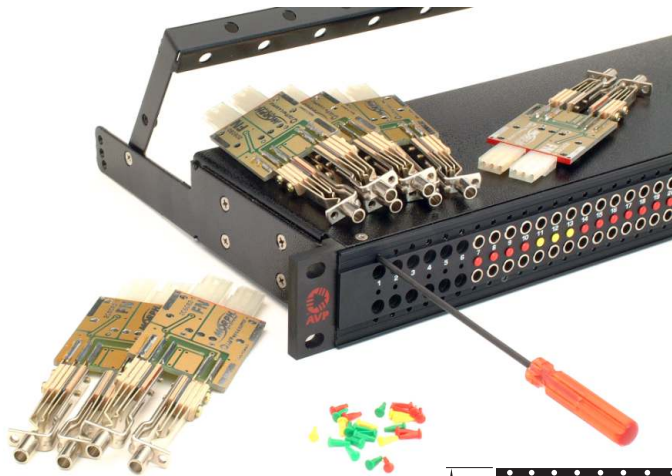


2RU Jackfield Frame

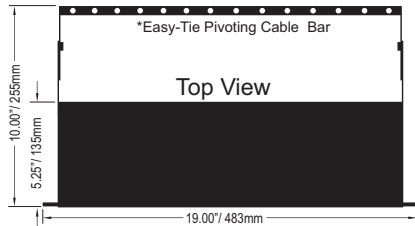


The award-winning Morph Audio System excels in specialty application requirements as found in mobile units and harsh environments. Its EDAC 3-pin term-

inations can withstand a 50 gravity vibration with no loss of continuity. In addition, the Morph System's short depth and light weight, allows installation in the tightest spaces.



Keep an inventory of Morph Modules and empty Morph frames to allow custom patchbay assembly or re-configuration in minutes! Morph modules fit 1, 1.5 & 2 Rack Unit frames.



CRIMP CHARACTERISTICS

- Contacts and Crimp Tools Accommodate from 28 AWG to 18 AWG, Solid or Stranded Conductor Diameters from .012" (0.30) to .049" (1.25) and an Insulation Diameter up to .074" (1.88)
- Multiple Smaller Gauge Wires may be Crimped Together
- Crimp Resistance from 0.5 Milliohms (18 AWG) to 1.5 Milliohms (28AWG)

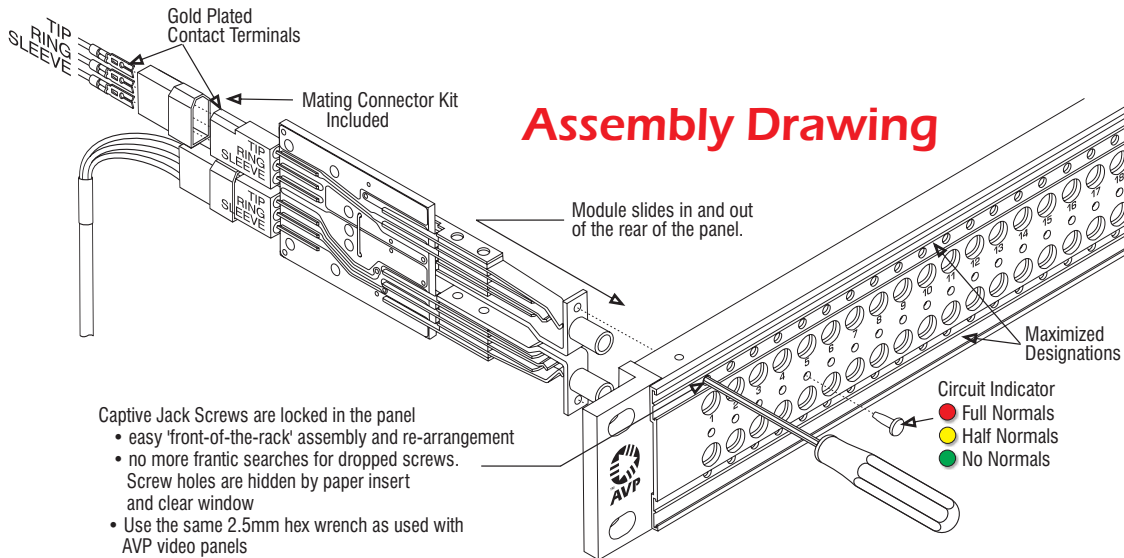


Mating Connector Kit

Each Morph Patchbay is shipped complete with its crimp-pin mating connector kit and a captive hex driver. (See ordering information for more details)

Mating Connector Kits, below, do not include the captive hex driver. Please contact AVP if required.

- MK224P-E03C** EDAC 3Pin Primaries Kit for 2x24 Patchbay, Crimp
- MK226P-E03C** EDAC 3Pin Primaries Kit for 2x26 Patchbay, Crimp
- MK224P-E03S** EDAC 3Pin Primaries Kit for 2x24 Patchbay, Solder
- MK226P-E03S** EDAC 3Pin Primaries Kit for 2x26 Patchbay, Solder



Tooling

EDAC Hand Crimp Tool
AVP Model **AT-EHCT**

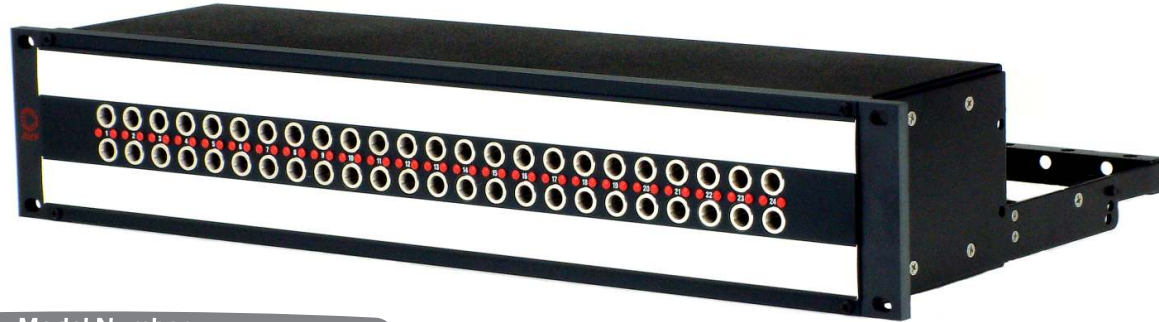


EDAC Insertion Tool
AVP Model **AT-EIT**

EDAC Ejection Tool
AVP Model **AT-EET**

Longframe

Panel illustrated:
AM-A224E2-L-FN-E03
 2RU, 2x24 Frame with 24 Dual Full Normal Modules
 (AM-A-FN-E03) installed, Mating Connector Kit



- Series**
- A** Mosaic
 - T** Mosaic (Black CIS)

- Number of Dual Modules**
- 24** 24 Modules
 - 26** 26 Modules

- Panel Height**
- 1** 1 Rack Unit 1.75", 44mm
 - 15** 1.5 Rack Unit 2.62", 66mm
 - 2** 2 Rack Unit 3.50", 89mm

- Installed Module Type**
- FN** Full Normals
 - HN** Half Normals
 - NN** No Normals
 - FNSG** Full Normals Switching Grounds
 - HNSG** Half Normal Switching Grounds

- Options, add to end of Model Number**
- SGVM** Strapped grounds at each vertical jack pair

Longframe Ordering Information

Designation Layouts... www.jackfields.com/support

Popular Models and Components

Model	Description
Complete Patchbays	
AM-A224E1-L-FN-E03	1RU, 2x24 Frame with 24 Dual Full Normal Modules (AM-A-FN-E03) installed, Mating Connector Kit
AM-A224E1-L-HN-E03	1RU, 2x24 Frame with 24 Dual Half Normal Modules (AM-A-HN-E03) installed, Mating Connector Kit
AM-A224E1-L-NN-E03	1RU, 2x24 Frame with 24 Dual No Normal Modules (AM-A-NN-E03) installed, Mating Connector Kit
Individual Components	
AM-A-FN-E03	Dual Longframe Module, Full Normals, EDAC 3 pin termination
AM-A-HN-E03	Dual Longframe Module, Half Normals, EDAC 3 pin termination
AM-A-NN-E03	Dual Longframe Module, No Normals, EDAC 3 pin termination
AM-A224E1-Z	1RU, 2x24 Frame, empty
MK224P-E03C	EDAC 3Pin Primaries Kit for 2x24 Patchbay, Crimp
MK226P-E03C	EDAC 3Pin Primaries Kit for 2x26 Patchbay, Crimp

Longframe Audio Dust Plugs

DC-ABK10 ... Dust Plug, fits longframe audio jack, black, package of 10 plugs

DC-ABK50 ... Dust Plug, fits longframe audio jack, black, package of 50 plugs

For jack inside diameter, 0.250" [6.35mm]

Longframe Audio Patchcords

For 110 Ohm AES/EBU Digital and Analog Audio Application

Model Number

L PC - - -

Patchcord Type

- B** Bantam
- L** Longframe

Patchcord Length

- 1** 1' [300mm]
- 1.5** 1.5' [450mm]
- 2** 2' [600mm]
- 3** 3' [900mm]
- 4** 4' [1200mm]
- 6** 6' [1800mm]
- 10** 10' [3.05m]

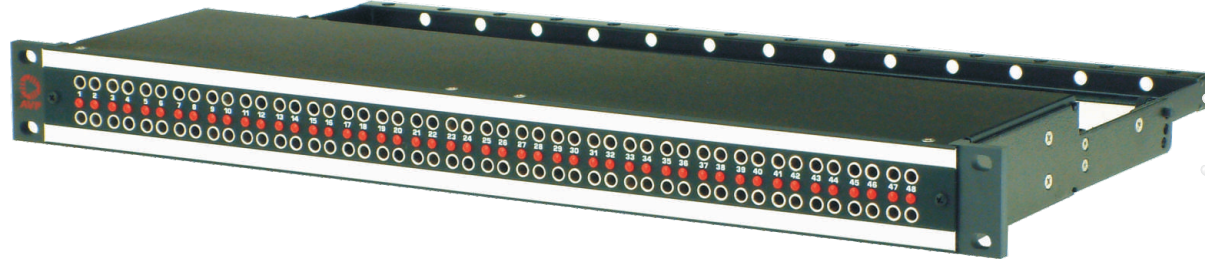
Color Legend:

- BLACK** [Black]
- RED** [Red]
- GREEN** [Green]
- BLUE** [Blue]
- YELLOW** [Yellow]
- PURPLE** [Purple]
- ORANGE** [Orange]
- WHITE** [White]

example... LPC-3-GREEN

Bantam

Panel illustrated:
AM-B248S1-L-FN-E03
1RU, 2x48 Frame with 48 Dual Full Normal Modules
(AM-B-FN-E03) installed, Mating Connector Kit



- Series**
- A Mosaic
 - T Mosaic (Black CIS)

- Module Spacing**
- E Even Spaced

- Panel Height**
- 1 1 Rack Unit 1.75", 44mm
 - 15 1.5 Rack Unit 2.62", 66mm
 - 2 2 Rack Unit 3.50", 89mm

- Installed Module Type**
- FN Full Normals
 - HN Half Normals
 - NN No Normals
 - FNSG Full Normals Switching Grounds
 - HNSG Half Normals Switching Grounds

- Options, add to end of Model Number**
- SGVM Strapped grounds at each vertical jack pair

Bantam Ordering Information

Bantam (TT) Audio Dust Plugs

DC-BBK10 ... Dust Plug, fits bantam audio jack, black, package of 10 plugs

DC-BBK100 ... Dust Plug, fits bantam audio jack, black, package of 100 plugs

For jack inside diameter, 0.175" [4.45mm]

Designation Layouts... www.jackfields.com/support

Popular Models and Components	
Model	Description
Complete Patchbays	
AM-B248E1-L-FN-E03	1RU, 2x48 Frame with 48 Dual Full Normal Modules (AM-B-FN-E03) installed, Mating Connector Kit
AM-B248E1-L-HN-E03	1RU, 2x48 Frame with 48 Dual Half Normal Modules (AM-B-HN-E03) installed, Mating Connector Kit
AM-B248E1-L-NN-E03	1RU, 2x48 Frame with 48 Dual No Normal Modules (AM-B-NN-E03) installed, Mating Connector Kit
Individual Components	
AM-B-FN-E03	Dual Bantam Module, Full Normals, EDAC 3 pin termination
AM-B-HN-E03	Dual Bantam Module, Half Normals, EDAC 3 pin termination
AM-B-NN-E03	Dual Bantam Module, No Normals, EDAC 3 pin termination
AM-B248S1-Z	1RU, 2x48 Frame, empty
MK248P-E03C	EDAC 3Pin Primaries Kit for 2x48 Patchbay, Crimp
MK248P-E03S	EDAC 3Pin Primaries Kit for 2x48 Patchbay, Solder

Bantam Audio Patchcords

For 110 Ohm AES/EBU Digital and Analog Audio Application

Model Number

B PC - - -

Patchcord Type

- B Bantam
- L Longframe

Patchcord Length

- 1 1' [300mm]
- 1.5 1.5' [450mm]
- 2 2' [600mm]
- 3 3' [900mm]
- 4 4' [1200mm]
- 6 6' [1800mm]
- 10 10' [3.05m]

Color Legend:

- BLACK
- RED
- GREEN
- BLUE
- YELLOW
- PURPLE
- ORANGE
- WHITE

example... BPC-3-GREEN

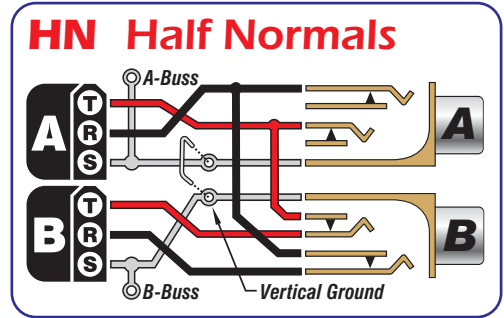
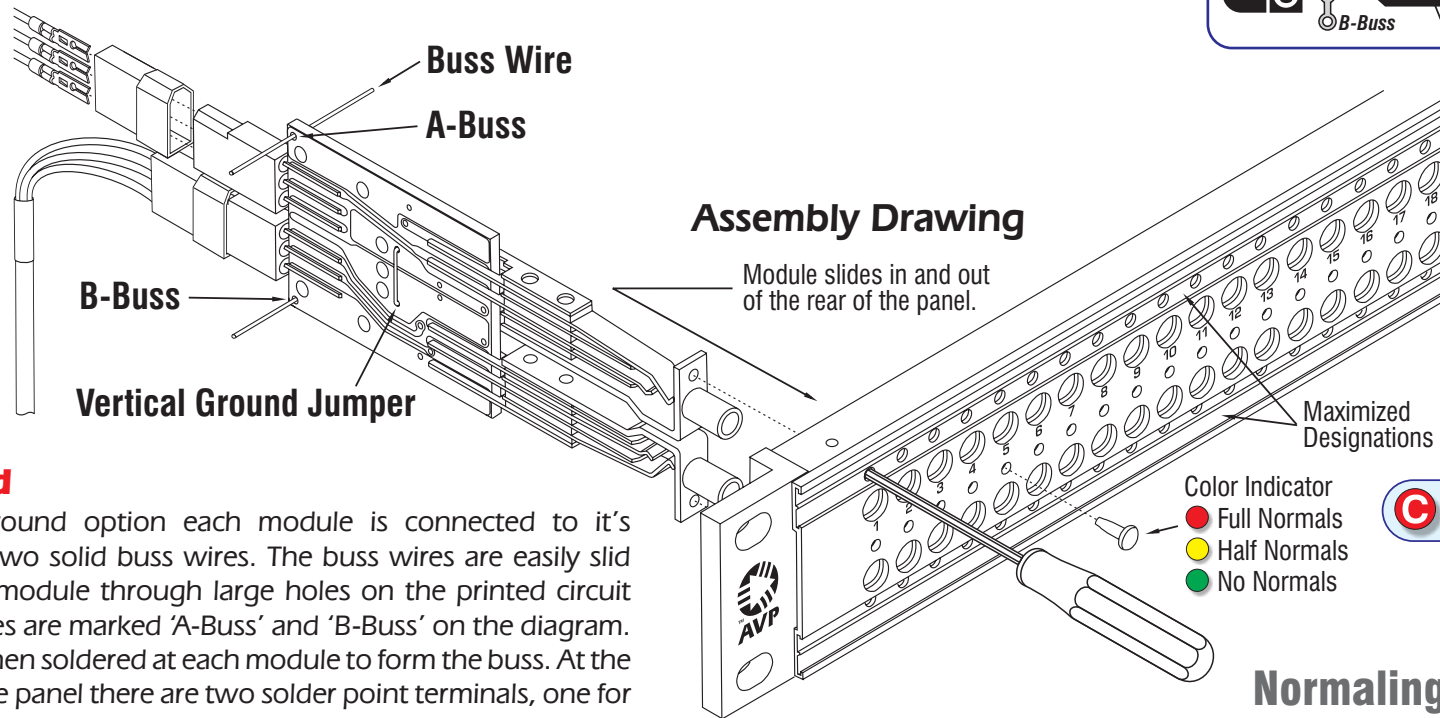


Morph Module Grounding

All modules in the Morph line offer a number of options for the shield connections of the jacks. Most common are the 'Vertical Ground' and 'Bussed Ground'.

Vertical Ground

The Vertical Ground option connects the shield from the 'A' row jack (top row) to the 'B' row jack (bottom row). This is accomplished by inserting a solid wire jumper that is the same shape and size as a standard paper staple into a set of holes on the module's printed circuit board. The jumper is then soldered in place to complete the connection.



Buss Ground

For the Buss Ground option each module is connected to its neighbour with two solid buss wires. The buss wires are easily slid from module to module through large holes on the printed circuit board. These holes are marked 'A-Buss' and 'B-Buss' on the diagram. The buss wire is then soldered at each module to form the buss. At the left rear side of the panel there are two solder point terminals, one for the A row and one for the B row. The buss wire is connected to the terminal on the inside of the jackfield and provides the customer a location for making external connection to the busses.

To remove a module after applying the Buss Ground option, it is necessary to cut the buss wire on either side of the module to be removed. After the module is replaced a short buss wire can be re-attached to the cut end of the main buss wire to re-establish the buss grounds across the jackfield.



Normaling Descriptions

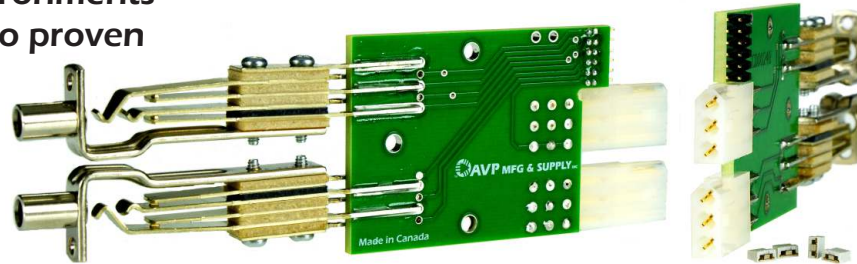
T: Tip	TN: Tip Normal
R: Ring	RN: Ring Normal
S: Sleeve	SN: Sleeve Normal

*US Patent No. 6,540,562

Delta Series Programmable Jackfield System Patchbay

Featuring: AVP Patented **MORPH** Style Modules

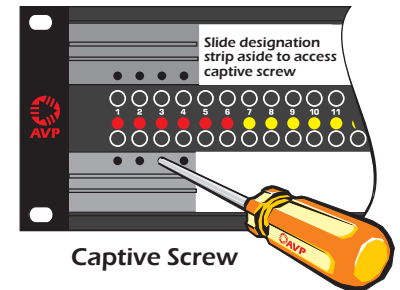
- Stellar performance in harsh environments
- Extensively used in mobiles due to proven reliability and compact design
- Jacks rated at 30,000 cycles
- No dip switches
- No ribbon cable
- No excessive connectorization
- Gold-plated programming jumpers



Programmable Module
Available in Longframe & Bantam

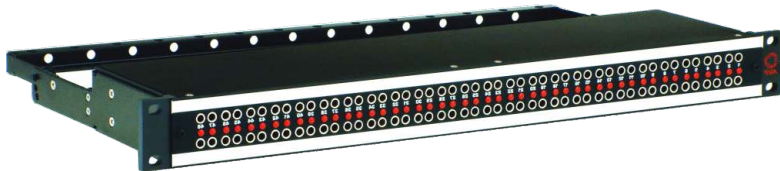


2RU Jackfield Frame

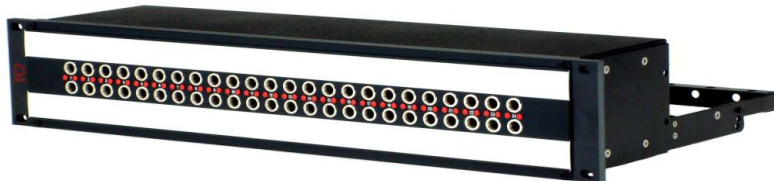


Panel Features:

- CIS (Circuit Identification system) allows color-coding of each circuit's function, available in 10 colors
- Maximized designations
- Jackfield shipped with crimp-pin mating connector kit and a captive hex key (where applicable)



- Available in 1RU, 1.5RU & 2RU
- Bantam and Longframe
- Application: AES/EBU, Analog
- Access Programming Links at rear of panel



Programming Options

A TIP	A RING
B TN	B RN
A TN	A RN
A SN	B SN
A SLV	B SLV
A BUSS	B BUSS

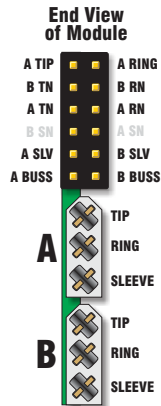
A	TIP
	RING
	SLEEVE
B	TIP
	RING
	SLEEVE

- Full Normals
- Half Normals
- No Normals
- Bussed Grounds
- Vertical Grounds
- Switching Grounds version also available

Rear View of Module with EDAC 3 pin connector interface (Sleeve = Ground)

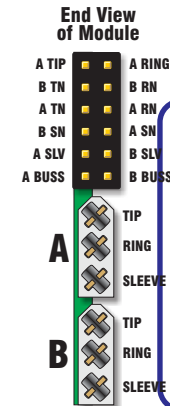
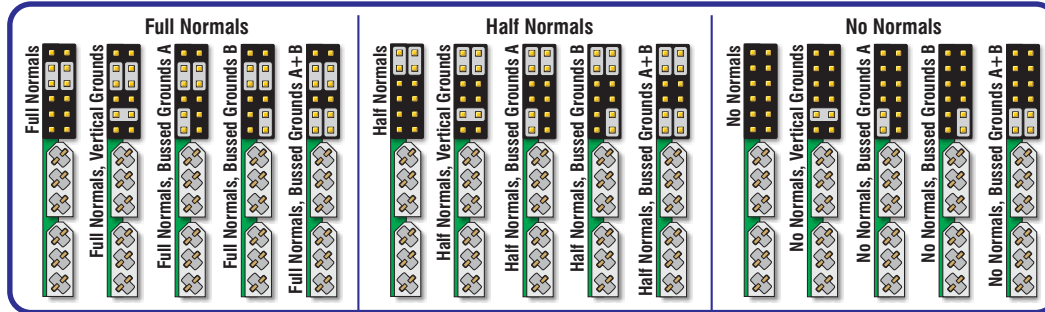


Studio or Mobile:
Morph style modules simplifies system design, saves space, adds flexibility, reliability and reduces weight.

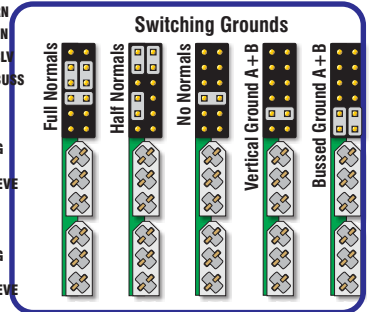


Programmable Jackfield Normalizing Guide

Standard Module



Switching Grounds Module



Programming Link Specifications

Materials

Mouldings: Standard or High temperature Plastic, UL94V-0
Contacts: Male: Copper alloy
 Female: Phosphor Bronze
 Link sockets: Beryllium Copper

Electrical

Current rating: 2A per single contact, 1A all contacts
Voltage rating: 250V AC/DC
Voltage proof: 650V AV
Contact resistance: 30 mOhm max.
Insulation resistance: 100 MOhm min.

Environmental

Temperature Classification: -40/+105/21 days 95% RH
Operating Temperature: -40°C to 105°C
Solderability: 235°C for 5 seconds
Soldering heat resistance: SMT: 260°C for 5 seconds

Mechanical

Durability: Gold finish: 300 operations
 Tin finish: 50 operations
Insertion force (max.): Female: 2.0N per contact
 Link sockets: 4.5N total
Withdrawal force (min.): Female: 0.2N per contact
 Link sockets: 0.6N total
Vibration sensitivity: 10-55Hz, 1.5mm, 6 hours duration
Shock severity: 490m/s² (50G) for 11 ms



Ordering Information

Series

- A Mosaic
- T Mosaic (Black CIS)

Patch Type

- A Longframe
- B Bantam

Number of Dual Modules

- 24 24 Longframe Modules
- 26 26 Longframe Modules
- 32 32 Bantam Modules
- 48 48 Bantam Modules

Panel Height

- 1 1 Rack Unit 1.75", 44mm
- 15 1.5 Rack Unit 2.62", 66mm
- 2 2 Rack Unit 3.50", 89mm

Mating Connector & Programming Link Kits

Model	Description
Longframe	
MK224P-E03C	EDAC 3Pin Primaries Kit for Longframe 2x24 Patchbay, Crimp
MK226P-E03C	EDAC 3Pin Primaries Kit for Longframe 2x26 Patchbay, Crimp
Bantam	
MK232P-E03C	EDAC 3Pin Primaries Kit for Bantam 2x32 Patchbay, Crimp
MK248P-E03C	EDAC 3Pin Primaries Kit for Bantam 2x48 Patchbay, Crimp
Programming Links	
AR-PL25	Programming Links, package of 25
AR-PL50	Programming Links, package of 50
AR-PL100	Programming Links, package of 100

Installed Programming, all Modules Field Reconfigurable

Standard Longframe or Bantam Module

- FN** Full Normals
- FNBG** Full Normals, Bussed Grounds
- FNBGA** Full Normals, Bussed Grounds, Row A
- FNBBG** Full Normals, Bussed Grounds, Row B
- FNVG** Full Normals, Vertical Grounds
- HN** Half Normals
- HNBG** Half Normals, Bussed Grounds
- HNBGA** Half Normals, Bussed Grounds, Row A
- HNBBG** Half Normals, Bussed Grounds, Row B
- HNVG** Half Normals, Vertical Grounds
- NN** No Normals
- NNBG** No Normals, Bussed Grounds
- NNBGA** No Normals, Bussed Grounds, Row A
- NNBBG** No Normals, Bussed Grounds, Row B
- NNVG** No Normals, Vertical Grounds

Switching Ground Longframe or Bantam Module

- FNSG** Full Normals, Switching Grounds
- HNSG** Half Normals, Switching Grounds
- NNSG** No Normals, Switching Grounds

Mating Connector & Programming Link Kits