



Broadcast

Interconnect Products



AMS30

MOSAIC

AVP Mosaic audio and video patching components provide exceptional functionality and circuit identification standards to simplify system design, installation, operation and maintenance.

Key Mosaic Features:

- CIS (Circuit Identification System) allows color-coding of every circuit to visually identify each circuit by color
- Patented designation design maximizes viewable area
- Numbered jack positions for quick and accurate installation, system troubleshooting and operational ease
- Front-mount jacks simplify system re-design and maintenance

AVP suggests the use of the following color code to indicate various normalizing options in Mosaic jackfields and patchbays. You are not limited to this color coding, as indicators are available in 10 colors. Our customers have found they are able to quickly determine the operation of each circuit by using the following standard:

- **Red: Full Normals:** Red coding is used for 'full normals' (normals strapped) to designate **STOP** and be sure of your action because patching a full normalled jack will cause you to lose a circuit.
- **Yellow: Half Normals** (audio): Yellow coding signifies patching into 'half normalled' positions, and **CAUTIONS** that patching the input (bottom jack) will break the path, while it is safe to patch into the top (output) without breaking the path.
- **Green: No Normals:** Green coding indicates a 'non normalled' circuit, **GO**-ahead and patch, nothing to lose!

AVP Circuit Identification System (CIS) Allows Specific Circuit Identification



... see page 38

- Full Normals
- Half Normals
- No Normals



Mosaic jackfields are shipped with normalizing type identified by color, but interchangeable Indicators are available in 10 colors so you can color-code your system according to your own system design. (easily identify critical circuits, signal type etc)

- | | | | | |
|---------|---------|----------|----------|----------|
| ● BLACK | ● BROWN | ● RED | ● ORANGE | ● YELLOW |
| ● GREEN | ● BLUE | ● PURPLE | ● GRAY | ● WHITE |

AVP Mosaic Video

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AVP Mosaic Audio

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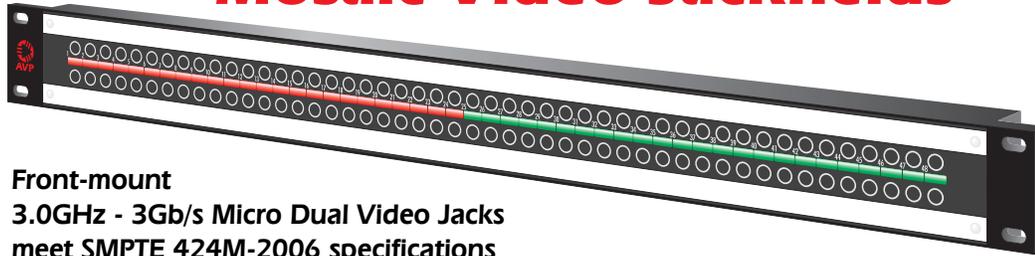
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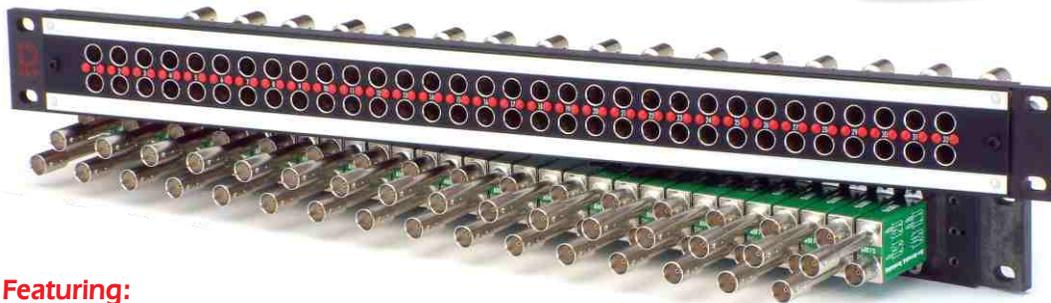
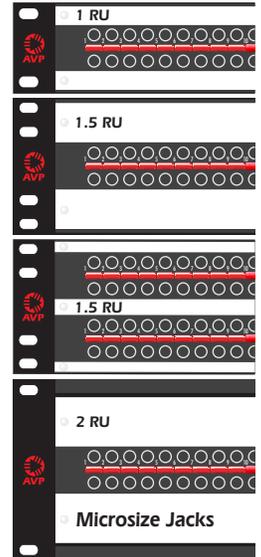
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SuperHD+ Series Mosaic Video Jackfields



- Front-mount
3.0GHz - 3Gb/s Micro Dual Video Jacks meet SMPTE 424M-2006 specifications
- Industry Standard DIN 1.0/2.3 rear termination
- Allows 48 channels / 96 patchpoints in a 1RU, 19" rack
- Design is based on our very successful, market proven midsize & standard size video jacks, with over a half million jacks in service
- Life Cycle rating of 20,000
- Multiple jack configurations available
- Made & assembled in Canada/USA

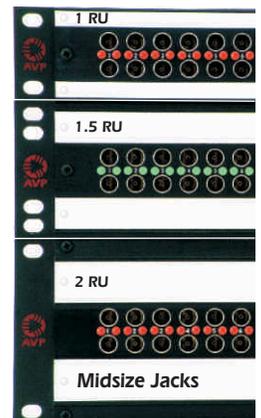
Microsize Jacks



Featuring:

- SuperHD+ 3.0GHz - 3Gb/s Standard or Midsize jacks
- Jacks meet SMPTE 424M-2006 HDTV specifications
- Life Cycle rating of 30,000
- Various normalizing & terminating combinations for all applications
- 1RU, 1.5RU or 2RU Mosaic panels
- Made & assembled in Canada/USA

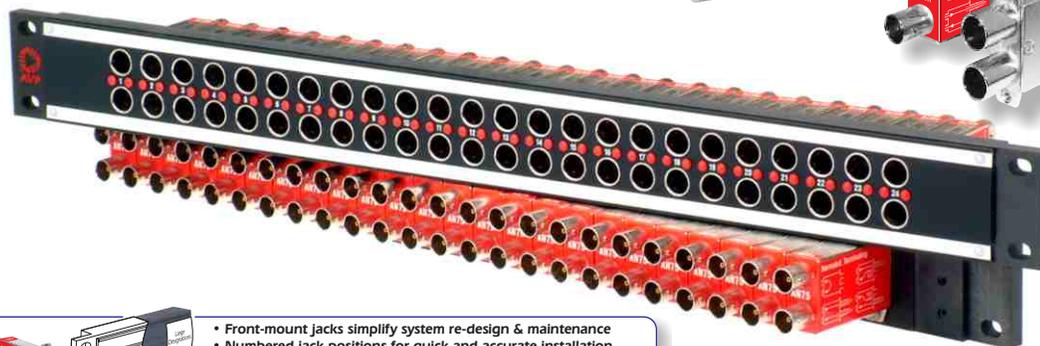
Midsize Jacks



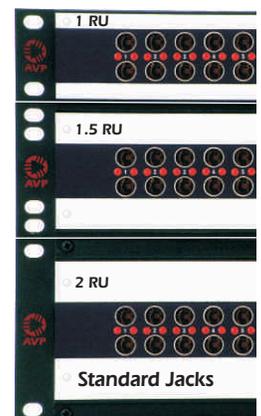
Application:

- HDTV, Serial Digital, Analog

Features & Benefits



Standard Jacks



- Front-mount jacks simplify system re-design & maintenance
- Numbered jack positions for quick and accurate installation, system troubleshooting & operational ease
- Patented designation design maximizes viewable area
- CIS (Circuit Identification System), allows color-coding of every circuit
- Captive screws stay in the panel, not lost in the rack

SuperHD+ Series 3.0GHz - 3Gb/s Microsize Dual Video Jack Specifications



Electrical:

Rated Bandwidth: 3.0GHz - 3Gb/s: meets HDTV SMPTE 424M-2006 Specification
 Characteristic Impedance: 75 Ohms
 Contact Resistance: Less than 50 milliohms
 Termination Resistance: 75 Ohms ± 1%

Environmental:

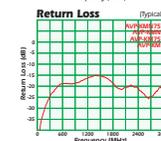
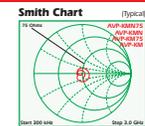
Operating Temperature: -40°C to 65°C
 Storage Temperature: -40°C to 65°C
 Thermal Shock: Per MIL-STD-202, Method 107
 Moisture and Humidity: Per MIL-STD-202, Method 106
 RoHS:

Mechanical:

Mechanical Shock: Per MIL-STD-202, Method 213, Test condition I
 Vibration: Per MIL-STD-202, Method 201
 Life cycle: 20,000 minimum

Material:

Housing: Zinc alloy, nickel plated
 Center Contacts: Copper alloy, gold plated
 Switching Contacts: Copper alloy, gold plated
 Grounding Contacts: Copper alloy, gold plated
 Actuators: Thermoplastic, UL 94V-0 rated
 Insulators: Teflon



Microsize Video Jacks Configurations and Specifications

SuperHD+ Series 3.0GHz - 3Gb/s Midsize Dual & Single Video Jack Specifications



Electrical:

Rated Bandwidth: 3.0GHz - 3Gb/s: meets HDTV SMPTE 424M-2006 Specification
 Characteristic Impedance: 75 Ohms
 Return Loss: See typical Return Loss chart
 Insertion Loss: See typical Insertion Loss chart
 Contact Resistance: Less than 50 milliohms
 Termination Resistance: 75 Ohms ± 1%
 Center Conductor: Accepts 0.048" pin diameter

Environmental:

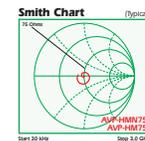
Operating Temperature: -40°C to 65°C
 Storage Temperature: -40°C to 65°C
 Thermal Shock: Per MIL-STD-202, Method 107
 Moisture and Humidity: Per MIL-STD-202, Method 106
 RoHS:

Mechanical:

Mechanical Shock: Per MIL-STD-202, Method 213, Test condition I
 Vibration: Per MIL-STD-202, Method 201
 Insertion Force: 7 lbs. maximum
 Withdrawal Force: 3 lb. minimum
 Life cycle: 30,000 minimum

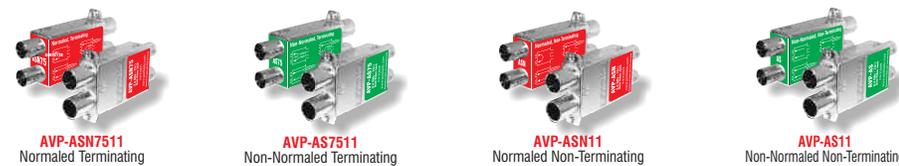
Material:

Housing: Zinc alloy, nickel plated
 Center Contacts: Copper alloy, gold plated
 Switching Contacts: Copper alloy, gold plated
 Grounding Contacts: Copper alloy, gold plated
 Actuators: Thermoplastic, UL 94V-0 rated
 BNC Insulators: Teflon



Midsize Video Jacks Configurations and Specifications

SuperHD+ Series 3.0GHz - 3Gb/s Standard Dual Video Jack Specifications



Electrical:

Rated Bandwidth: 3.0GHz - 3Gb/s: meets HDTV SMPTE 424M-2006 Specification
 Characteristic Impedance: 75 Ohms
 Return Loss: See typical Return Loss chart
 Insertion Loss: See typical Insertion Loss chart
 Contact Resistance: Less than 50 milliohms
 Termination Resistance: 75 Ohms ± 1%
 Center Conductor: Accepts 0.090" pin diameter

Environmental:

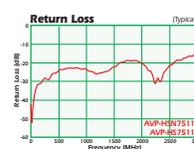
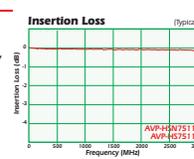
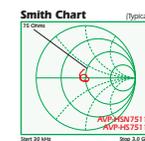
Operating Temperature: -40°C to 65°C
 Storage Temperature: -40°C to 65°C
 Thermal Shock: Per MIL-STD-202, Method 107
 Moisture and Humidity: Per MIL-STD-202, Method 106
 RoHS:

Mechanical:

Mechanical Shock: Per MIL-STD-202, Method 213, Test condition I
 Vibration: Per MIL-STD-202, Method 201
 Insertion Force: 12 lbs. maximum
 Withdrawal Force: 3 lbs. minimum
 Life cycle: 30,000 minimum

Material:

Housing: Zinc alloy, nickel plated
 Center Contacts: Copper alloy, gold plated
 Switching Contacts: Copper alloy, gold plated
 Grounding Contacts: Copper alloy, gold plated
 Actuators: Thermoplastic, UL 94V-0 rated
 BNC Insulators: Teflon



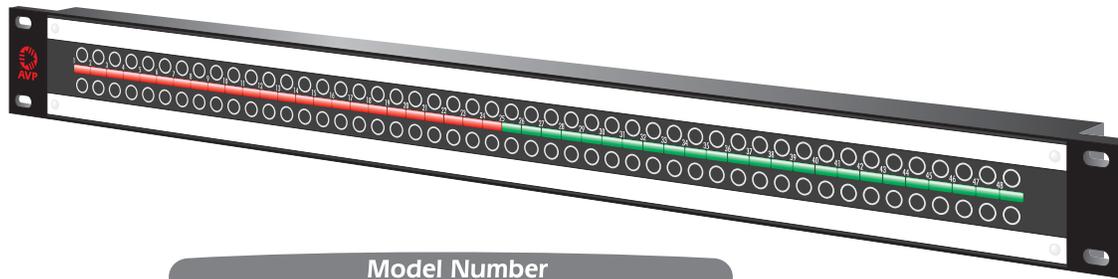
Standard Video Jacks Configurations and Specifications

Ordering Information
(over)

Video jack schematics... page 58

SuperHD+ Series 3.0GHz - 3Gb/s Micro Video Jackfield

Microsize Video Ordering Information



Model Number
A V - K [] [] E - [] - []

Panel Configuration

- 2 2x48 (48 Dual Jacks)
- 4 4x48 (96 Dual Jacks)

Number of Jacks Across

48 48 Jacks

Panel Height

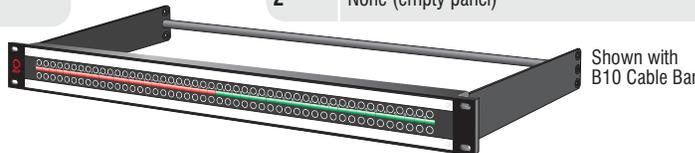
- 1 1 Rack Unit 1.75", 44mm
- 15 1.5 Rack Unit 2.62", 66mm
- 2 2 Rack Unit 3.50", 89mm

Cable Bar Option

- BZ No Cable Bar
- B10 7.0" [178mm] Cable Bar

Installed Front-mount Jack Type

- KMN75 3.0Ghz - 3Gb/s 75Ω Normaled, Terminating, dual jack
- KM75 3.0Ghz - 3Gb/s 75Ω Non-Normaled, Terminating, dual jack
- KMN 3.0Ghz - 3Gb/s 75Ω Normaled, Non-Terminating, dual jack
- KM 3.0Ghz - 3Gb/s 75Ω Non-Normaled, Non-Terminating, dual jack
- Z None (empty panel)



Popular Models

Model	Description
Complete Jackfields - 3.0GHz - 3Gb/s normaled terminating (KMN75)	
AV-K248E1-KMN75-B10	2x48 Panel, 1RU 48 KMN75 normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K248E15-KMN75-B10	2x48 Panel, 1.5RU 48 KMN75 normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K448E15-KMN75-B10	4x48 Panel, 1.5RU 96 KMN75 normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K248E2-KMN75-B10	2x48 Panel, 2RU 48 KMN75 normaled terminating front-mount jacks, 7" [178mm] cable bar
Complete Jackfields - 3.0GHz - 3Gb/s non-normaled terminating (KM75)	
AV-K248E1-KM75-B10	2x48 Panel, 1RU 48 KM75 non-normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K248E15-KM75-B10	2x48 Panel, 1.5RU 48 KM75 non-normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K448E15-KM75-B10	4x48 Panel, 1.5RU 96 KM75 non-normaled terminating front-mount jacks, 7" [178mm] cable bar
AV-K248E2-KM75-B10	2x48 Panel, 2RU 48 KM75 non-normaled terminating front-mount jacks, 7" [178mm] cable bar
Empty Panels	
AV-K248E1-Z-B10	2x48 Panel, 1RU, empty, for AVP front-mount jacks, 7" [178mm] cable bar
AV-K248E15-Z-B10	2x48 Panel, 1.5RU, empty, for AVP front-mount jacks, 7" [178mm] cable bar
AV-K448E15-Z-B10	4x48 Panel, 1.5RU, empty, for AVP front-mount jacks, 7" [178mm] cable bar
AV-K248E2-Z-B10	2x48 Panel, 2RU, empty, for AVP front-mount jacks, 7" [178mm] cable bar

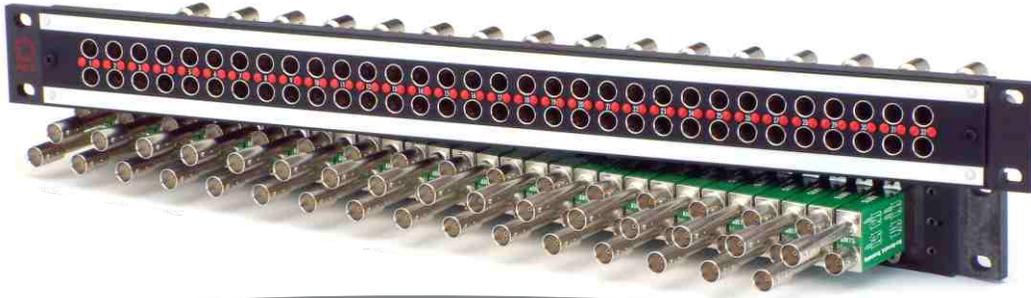
Designation Layouts... www.jackfields.com/support

Microsize Video Patchcords		Black	Red	Green	Blue	Yellow	Purple
1'	300mm	KPC-1-BLACK	KPC-1-RED	KPC-1-GREEN	KPC-1-BLUE	KPC-1-YELLOW	KPC-1-PURPLE
1.5'	450mm	KPC-1.5-BLACK	KPC-1.5-RED	KPC-1.5-GREEN	KPC-1.5-BLUE	KPC-1.5-YELLOW	KPC-1.5-PURPLE
2'	600mm	KPC-2-BLACK	KPC-2-RED	KPC-2-GREEN	KPC-2-BLUE	KPC-2-YELLOW	KPC-2-PURPLE
3'	900mm	KPC-3-BLACK	KPC-3-RED	KPC-3-GREEN	KPC-3-BLUE	KPC-3-YELLOW	KPC-3-PURPLE
4'	1200mm	KPC-4-BLACK	KPC-4-RED	KPC-4-GREEN	KPC-4-BLUE	KPC-4-YELLOW	KPC-4-PURPLE
6'	1800mm	KPC-6-BLACK	KPC-6-RED	KPC-6-GREEN	KPC-6-BLUE	KPC-6-YELLOW	KPC-6-PURPLE
10'	3.05m	KPC-10-BLACK	KPC-10-RED	KPC-10-GREEN	KPC-10-BLUE	KPC-10-YELLOW	KPC-10-PURPLE

*more patchcords available on page 56

Microsize Video Patchcords 3GHz

Super^{HD+} Series 3.0GHz - 3Gb/s Midsize Video Jackfield



Midsize Video Ordering Information

Model Number
V - D 2 E - -

Series

- A Mosaic 
- T Mosaic (Black CIS)

Panel Hole Configuration

- 32 2 x 32
- 34 2 x 34
- 36 2 x 36

Rack Space

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

Cable Bar Option

- BZ No Cable Bar
- B10 7.0" [178mm] Cable Bar
not available on 2x34 & 2x36 panels*
- B21 6.0" [152mm] cable bar, **only available on 1.5 & 2RU, 2x34 & 2x36 panels*

***no cable bars available for 1RU 2x34 & 2X36 panels*

Installed Jack Type

- AMN75 3.0GHz - 3Gb/s 75Ω Normaled, Terminating
- AM75 3.0GHz - 3Gb/s 75Ω Non-Normaled, Terminating
- AMN 3.0GHz - 3Gb/s 75Ω Normaled, Non-Terminating
- AM 3.0GHz - 3Gb/s 75Ω Non-Normaled, Non-Terminating
- AMSL75 3.0GHz - 3Gb/s 75Ω Terminating, single long
- AMSS75 3.0GHz - 3Gb/s 75Ω Terminating, single short
- AMSL 3.0GHz - 3Gb/s 75Ω Non-Terminating, single long
- AMSS 3.0GHz - 3Gb/s 75Ω Non-Terminating, single short
- Z None (empty panel)

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

Popular Models

Model	Description
 Complete Jackfields - 3.0GHz - 3Gb/s normaled terminating (AMN75)	
AV-D232E1-AMN75-BZ	1RU, 2x32 Captive Screw Panel 32 AMN75 normaled terminating jacks, no cable bar
AV-D232E2-AMN75-BZ	2RU, 2x32 Captive Screw Panel 32 AMN75 normaled terminating jacks, no cable bar
 Complete Jackfields - 3.0GHz - 3Gb/s non-normaled terminating (AM75)	
AV-D232E1-AM75-BZ	1RU, 2x32 Captive Screw Panel 32 AM75 non-normaled terminating jacks, no cable bar
AV-D232E2-AM75-BZ	2RU, 2x32 Captive Screw Panel 32 AM75 non-normaled terminating jacks, no cable bar
Empty Panels	
AV-D232E1-Z-BZ	1RU, 2x32 Captive Screw Panel, empty, no cable bar
AV-D232E2-Z-BZ	2RU, 2x32 Captive Screw Panel, empty, no cable bar

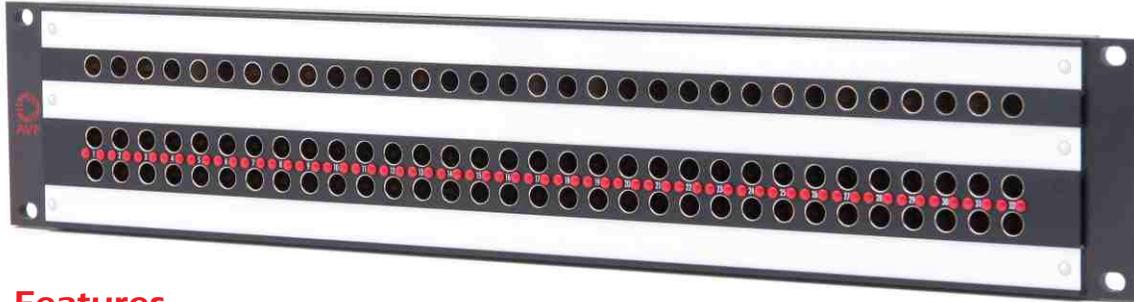
Midsize Video Patchcords

Length	Color	Model	Color	Color	Color	Color	Color
1'	300mm	MPC-1-BLACK	MPC-1-RED	MPC-1-GREEN	MPC-1-BLUE	MPC-1-YELLOW	MPC-1-PURPLE
1.5'	450mm	MPC-1.5-BLACK	MPC-1.5-RED	MPC-1.5-GREEN	MPC-1.5-BLUE	MPC-1.5-YELLOW	MPC-1.5-PURPLE
2'	600mm	MPC-2-BLACK	MPC-2-RED	MPC-2-GREEN	MPC-2-BLUE	MPC-2-YELLOW	MPC-2-PURPLE
3'	900mm	MPC-3-BLACK	MPC-3-RED	MPC-3-GREEN	MPC-3-BLUE	MPC-3-YELLOW	MPC-3-PURPLE
4'	1200mm	MPC-4-BLACK	MPC-4-RED	MPC-4-GREEN	MPC-4-BLUE	MPC-4-YELLOW	MPC-4-PURPLE
6'	1800mm	MPC-6-BLACK	MPC-6-RED	MPC-6-GREEN	MPC-6-BLUE	MPC-6-YELLOW	MPC-6-PURPLE
10'	3.05m	MPC-10-BLACK	MPC-10-RED	MPC-10-GREEN	MPC-10-BLUE	MPC-10-YELLOW	MPC-10-PURPLE

*more patchcords available on page 56

Midsize Video Patchcords 3GHz

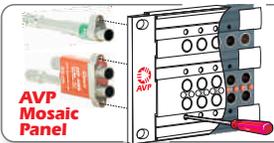
Super^{HD+} Series Midsize Video with Monitor Row



**Midsize 3x32
3x34 & 3x36
Video Monitor
3.0GHz - 3Gb/s**

Features

- Exceptional performance in HDTV, serial digital and analog applications
- 3.0GHz - 3Gb/s Midsize dual and single video jacks meet SMPTE 424M-2006 specifications
- Life cycle rating of 30,000
- Dual jacks available in normalizing and non-normalizing configurations
- Single & Dual jacks available in terminating and non-terminating configurations
- Numbered jack positions front and rear for quick and accurate installation, system troubleshooting and operational ease
- Patented designation design maximizes viewable height, 0.760" (19.30mm)
- Available in 3x32, 3x34 and 3x36 configurations



- Front-mount jacks simplify system re-design & maintenance
- Numbered jack positions for quick and accurate installation, system troubleshooting & operational ease
- Patented designation design maximizes viewable area
- CIS (Circuit Identification System), allows color-coding of every circuit

Captive screws stay in the panel, not lost in the rack

Video Jack Specifications... page 5
Patchcords available... page 56

Ordering Information

Popular Models Ordering Information	
Model	Description
AV-D332E2-AMN75/AMS75-BZ	2RU, 3x32. - 2x32 3.0GHz - 3Gb/s, 75 Ohm, normalied, terminating midsize video jacks, with 1x32 monitor row of 3.0GHz - 3Gb/s, 75 Ohm, non-normalied, terminating midsize single video jacks, no cable bar
AV-D332E2-AMN75/AMS75-B10	2RU, 3x32. - 2x32 3.0GHz - 3Gb/s, 75 Ohm, normalied, terminating midsize video jacks, with 1x32 monitor row of 3.0GHz - 3Gb/s, 75 Ohm, non-normalied, terminating midsize single video jacks, with 7" [178mm] cable bar
AV-D334E2-AMN75/AMS75-BZ	2RU, 3x34. - 2x34 3.0GHz - 3Gb/s, 75 Ohm, normalied, terminating midsize video jacks, with 1x34 monitor row of 3.0GHz - 3Gb/s, 75 Ohm, non-normalied, terminating midsize single video jacks, no cable bar option
AV-D336E2-AMN75/AMS75-BZ	2RU, 3x36. - 2x36 3.0GHz - 3Gb/s, 75 Ohm, normalied, terminating midsize video jacks, with 1x36 monitor row of 3.0GHz - 3Gb/s, 75 Ohm, non-normalied, terminating midsize single video jacks, no cable bar option

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

Midsize Video Patchcords		Black	Red	Green	Blue	Yellow	Purple
1'	300mm	MPC-1-BLACK	MPC-1-RED	MPC-1-GREEN	MPC-1-BLUE	MPC-1-YELLOW	MPC-1-PURPLE
1.5'	450mm	MPC-1.5-BLACK	MPC-1.5-RED	MPC-1.5-GREEN	MPC-1.5-BLUE	MPC-1.5-YELLOW	MPC-1.5-PURPLE
2'	600mm	MPC-2-BLACK	MPC-2-RED	MPC-2-GREEN	MPC-2-BLUE	MPC-2-YELLOW	MPC-2-PURPLE
3'	900mm	MPC-3-BLACK	MPC-3-RED	MPC-3-GREEN	MPC-3-BLUE	MPC-3-YELLOW	MPC-3-PURPLE
4'	1200mm	MPC-4-BLACK	MPC-4-RED	MPC-4-GREEN	MPC-4-BLUE	MPC-4-YELLOW	MPC-4-PURPLE
6'	1800mm	MPC-6-BLACK	MPC-6-RED	MPC-6-GREEN	MPC-6-BLUE	MPC-6-YELLOW	MPC-6-PURPLE
10'	3.05m	MPC-10-BLACK	MPC-10-RED	MPC-10-GREEN	MPC-10-BLUE	MPC-10-YELLOW	MPC-10-PURPLE

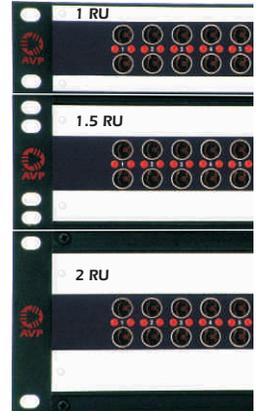
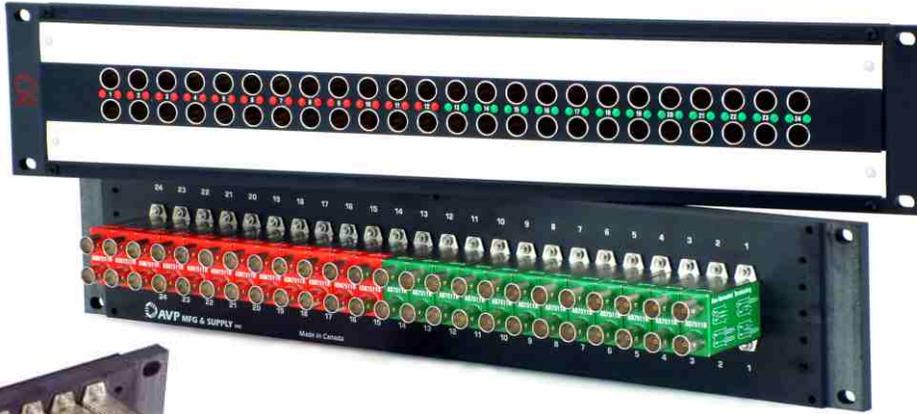
*more patchcords available on page 56

Midsize Video Patchcords 3GHz

Super^{HD+} Series

3.0GHz - 3Gb/s Standard Size Video Jack

Standard Size Video



Mosaic standard size video panels also accept AVP longframe audio jacks using the same captive screw system



Series

- A Mosaic
- T Mosaic (Black CIS)

Number of Dual Jacks

- 24 24 Jacks
- 26 26 Jacks
- 28 28 Jacks

Rack Space

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

Cable Bar Option

- BZ No Cable Bar
- B10 7.0" [178mm] Cable Bar
not available on 2x28 panels*
- B21 6.0" [152mm] cable bar, **only available on 1.5 & 2RU, 2x28 panels*
***no cable bar available for 1RU 2x28 panel*

Installed Jack Type

- ASN7511 3.0GHz - 3Gb/s 75Ω Normaled, Terminating
- AS7511 3.0GHz - 3Gb/s 75Ω Non-Normaled, Terminating
- ASN11 3.0GHz - 3Gb/s 75Ω Normaled, Non-Terminating
- AS11 3.0GHz - 3Gb/s 75Ω Non-Normaled, Non-Term.
- Z None (empty panel)

Ordering Information

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

Popular Models

Model	Description
Complete Jackfields - 3.0GHz - 3Gb/s normaled terminating (ASN7511)	
AV-C224E1-ASN7511-BZ	1RU, 2x24 Captive Screw Panel, 24 ASN7511 normaled terminating jacks, no cable bar
AV-C224E2-ASN7511-BZ	2RU, 2x24 Captive Screw Panel, 24 ASN7511 normaled terminating jacks, no cable bar
Complete Jackfields - 3.0GHz - 3Gb/s non-normaled terminating (AS7511)	
AV-C224E1-AS7511-BZ	1RU, 2x24 Captive Screw Panel, 24 AS7511 non-normaled terminating jacks, no cable bar
AV-C224E2-AS7511-BZ	2RU, 2x24 Captive Screw Panel, 24 AS7511 non-normaled terminating jacks, no cable bar
Empty Panels	
AV-C224E1-Z-BZ	1RU, 2x24 Captive Screw Panel, empty, no cable bar
AV-C224E2-Z-BZ	2RU, 2x24 Captive Screw Panel, empty, no cable bar

Standard Size Video Patchcords							
1'	300mm	VPC-1-BLACK	VPC-1-RED	VPC-1-GREEN	VPC-1-BLUE	VPC-1-YELLOW	VPC-1-PURPLE
1.5'	450mm	VPC-1.5-BLACK	VPC-1.5-RED	VPC-1.5-GREEN	VPC-1.5-BLUE	VPC-1.5-YELLOW	VPC-1.5-PURPLE
2'	600mm	VPC-2-BLACK	VPC-2-RED	VPC-2-GREEN	VPC-2-BLUE	VPC-2-YELLOW	VPC-2-PURPLE

*more patchcords available on page 56

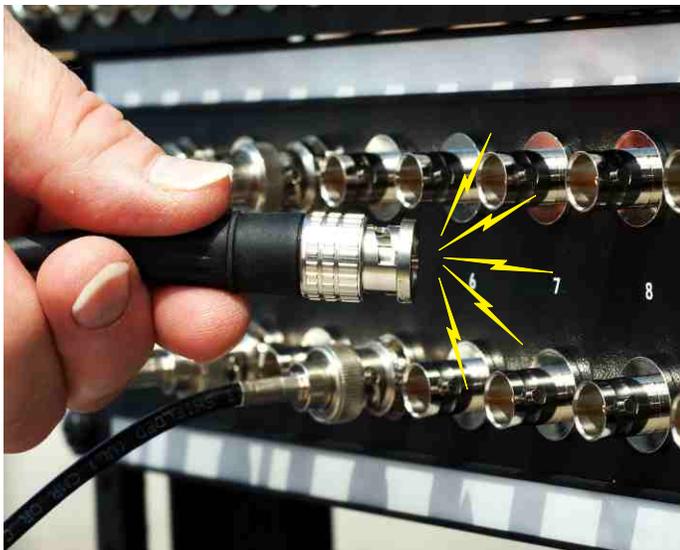
Standard Size Video Patchcords 3GHz

L Band Patching

Overview

L band comprises four different bands on the electromagnetic spectrum: 40-60 GHz (NATO), 1-2 GHz (IEEE), 1565-1625 nm (optical), and ~ 3.5 micrometres (infrared astronomy).

In broadcast technology, L Band refers to the frequency range of 950-1450 MHz ... 950-2025 MHz in MDU systems with stacked L band signals. Satellite modems and television receivers work in this range, with the signal translated to and from the satellite band by either dedicated upconverters/downconverters or a solid-state low-noise block converter and upconverter (LNB).



The Problem

All receivers are designed with front ends featuring a generous input range and at least 50db of gain adaptable by Automatic Gain Control (AGC). Achieving full mute on the input typically requires isolation approaching 80db. Unpatched, a receiver with leakage across the jack will compensate by increasing sensitivity until it gets the input it

wants. This can usually be seen at initial patch when the signal briefly disappears until AGC obtains the required gain. The signal then reappears, apparently unaffected by patching. While it looks like the jack failed to switch, the receiver has actually compensated for the inadequate level. Most professional receivers have an input indicator which will show the drop but the “capture” effect of the front end will completely eliminate any cross-coupling of the two signals, and there will be no impairment to the patched signal. This AGC response is often very confusing to operations staff, and is almost always interpreted as jack failure.

There isn't a dual video jack on the market today that can meet the necessary level of isolation, so AVP does not recommend a dual video jack for L Band service. Even a BNC bulkhead using a BNC patchcord will have isolation issues when:

- LNBs connected to the upper row are powered
- The BNC patchcord is connected to a receiver input
- The other end of the BNC patchcord is held close to a BNC with a feed from an LNB

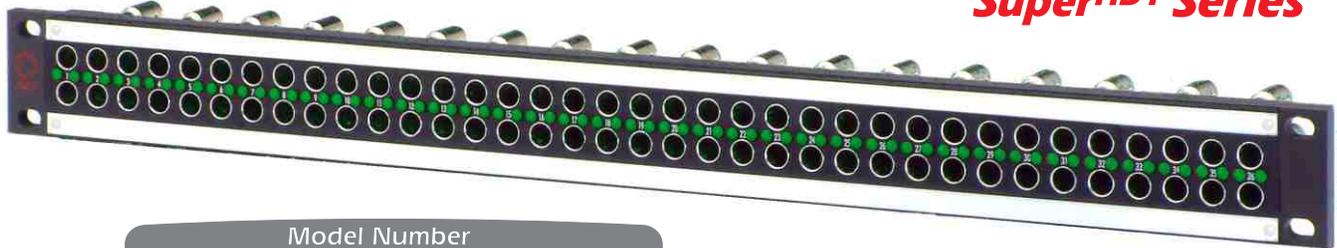
The signal from the LNB will radiate from the open BNC on the panel to the BNC on the end of the patchcord. At this point the receiver will often un-mute and display the signal from the LNB.

The Solution

Because L Band service carries too much power on the cable for normalizing contacts and terminating resistors in a video jack, the answer is non-terminated midsize single jacks with looping plugs and/or insulated bulkhead BNC panels.

AVP midsize single video jacks with looping plugs for normalizing provide excellent return loss, the best isolation, and absolutely no issue with current load up to 2 amps.

3.0GHz - 3Gb/s Midsize Singles Video Jackfield SuperHD+ Series



Model Number
V - D 2 E - AMS -

Series
A Mosaic 
T Mosaic (Black CIS)

Panel Hole Configuration
32 2 x 32
34 2 x 34
36 2 x 36

Cable Bar Option
BZ No Cable Bar
B10 7" [178mm] Cable Bar
**not available on 1RU 2x34 & 2x36 panels*

Installed Jack Type
AMS 3.0GHz - 3Gb/s 75Ω Non-Terminating, alternating, single long & short

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

AV-DLP Looping Plug



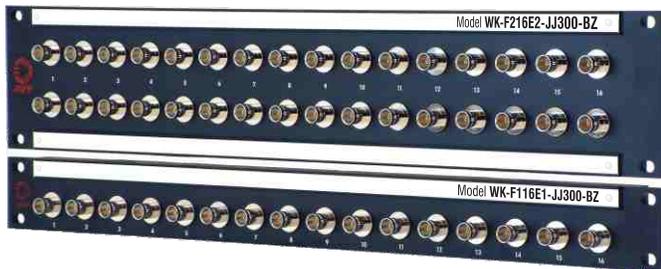
AVP-AMSL
Non-Normaled, Non-Terminating



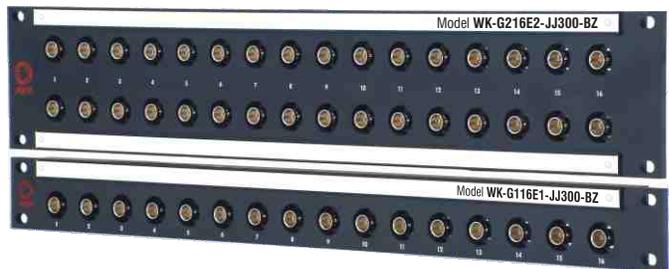
AVP-AMSS
Non-Normaled, Non-Terminating

Video Jack Specifications... page 5
Designation Layouts... www.jackfields.com/support

Insulated BNC Bulkhead Panels



Non-Recessed Connector Panels



Semi-Recessed Connector Panels

- Heavy-duty Rigid Phenolic Panels
- Attractive textured black semi-gloss finish
- Hi-Performance BNC-BNC Connectors
- Non-Recessed available in 12, 16, 20 & 24 positions
- Semi-Recessed available in 12, 16 & 20 positions
- Configurations up to 4x24

Popular Models (Configurations up to 4x24 are available)

Model	Description
BNC-BNC Non-recessed Connector Panels	
WK-F116E1-JJ300-BZ	1RU, 1x16 position, BNC-BNC non-recessed panel, 16 JJ300 connectors, no cable bar
WK-F216E2-JJ300-BZ	2RU, 2x16 position, BNC-BNC non-recessed panel, 32 JJ300 connectors, no cable bar
WK-F320E2-JJ300-BZ	2RU, 3x20 position, BNC-BNC non-recessed panel, 60 JJ300 connectors, no cable bar
WK-F216E2-Z-BZ	2RU, 2x16 position, BNC-BNC non-recessed panel, empty, no cable bar
BNC-BNC Semi-recessed Connector Panels	
WK-G116E1-JJ300-BZ	1RU, 1x16 position, BNC-BNC semi-recessed panel, 16 JJ300 connectors, no cable bar
WK-G216E2-JJ300-BZ	2RU, 2x16 position, BNC-BNC semi-recessed panel, 32 JJ300 connectors, no cable bar
WK-G320E2-JJ300-BZ	2RU, 3x20 position, BNC-BNC semi-recessed panel, 60 JJ300 connectors, no cable bar
WK-G216E2-Z-BZ	2RU, 2x16 position, BNC-BNC semi-recessed panel, empty, no cable bar

For full line of BNC Bulkhead Panels... page 41
For full line of Patchcords... page 56

AVP Rapid Punch Terminal (RPT) System

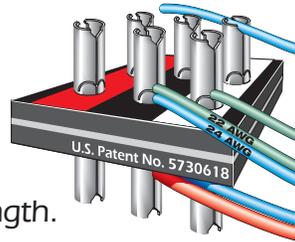
Worldwide installations...
Unsurpassed performance...



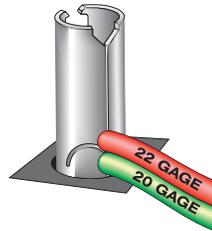
Features
and Benefits

Performance
Advantages

1 Bigger & Stronger
Size plus AVP's rigid mounting technique means unparalleled wire retention, no terminal push-through and overall superior strength.



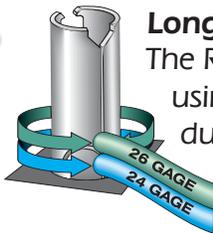
2 Extended Cable Range
The larger diameter barrel allows termination of 20-28 gage wire, solid or stranded, and it properly terminates bulkier 110 Ohm Digital Audio Cable.



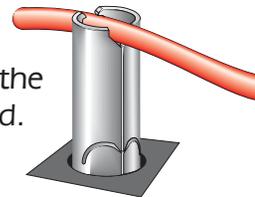
3 Multiple Wire Gages
The RPT terminal is certified for termination of different wire gages, **even on the same half of the terminal**. The colored arrows show the four mechanically independent slots.



4 Longer Life
The RPT terminal is certified for 300 punch cycles, using 22 to 26 gage wire, facilitating easy and durable re-configuration at any time.



5 Faster & Easier
The wire gripper locates and retains the wire before the punch enabling quick termination with just one hand.



6 Lifetime Tip Replacement
The AVP heavy-duty punch tip is guaranteed for life (and we're still waiting for the first claim).

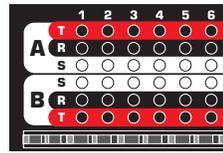


Installation Advantages

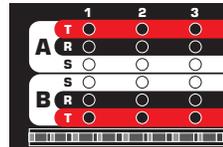
7 Common Sense
Easy and unified integration because AVP panels have consistent color-coding and sequential numbering across the entire product line!

8 Confidence
Terminate wire with 1 punch. The AVP punch tip makes a clear sound indicating a solid, gas-tight termination.

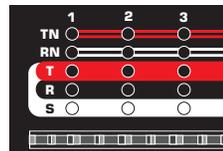
9 Serviceability
Easily replace damaged terminals.



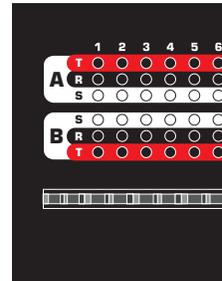
AP-B248S1 Series



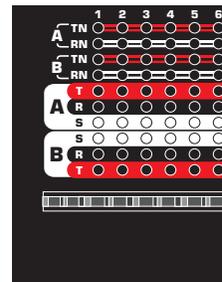
AP-A224E1 Series



AP-A124E1 Series

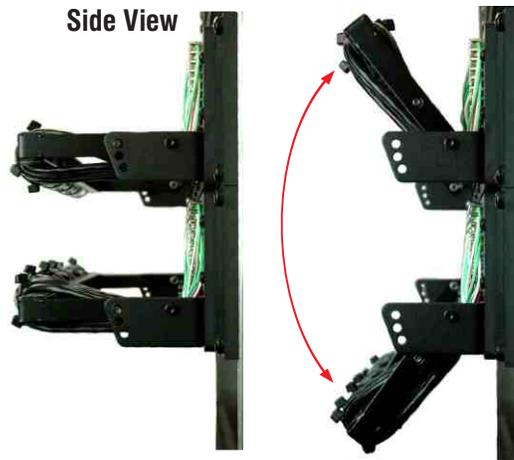


AP-B248S2 Series

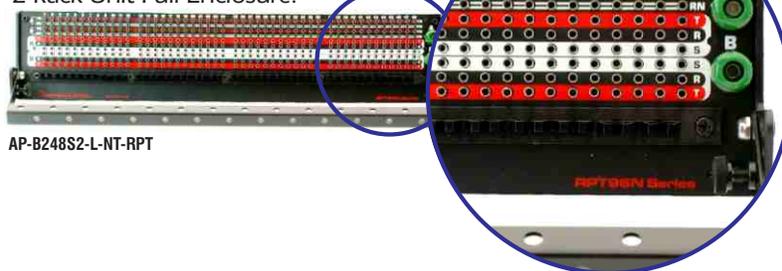


AP-B248S2 Series with Normals Out

10 RPT Pivoting Cable Bar
Accessibility is significantly improved with the pivoting cable bar, standard on all rack-mounted RPT product.



11 Saves Space
2x48 Bantam Normals Out in a 2 Rack Unit Full Enclosure!



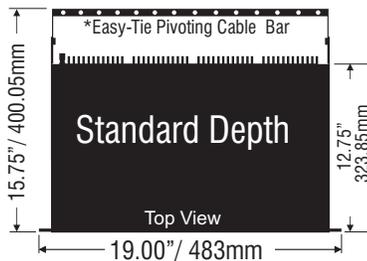
AP-B248S2-L-NT-RPT

Standard Jackfield Styles

All AVP audio jackfields are suitable for AES/EBU digital and analog audio patching.



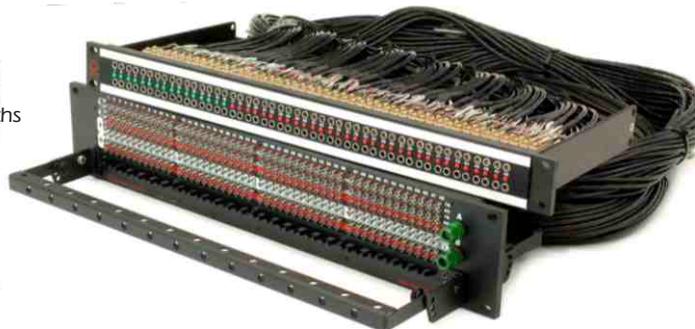
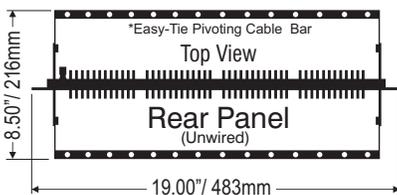
Full Enclosure



Standard Depth: 15.75", [400.05mm]
 Shallow Depth Option (XS): 10.75", [273.05mm]

Standard umbilical length is 40", [1m]

See ordering details for specifying custom lengths



Umbilical



Punch Tool with Tip
 AT-RPT-PTK

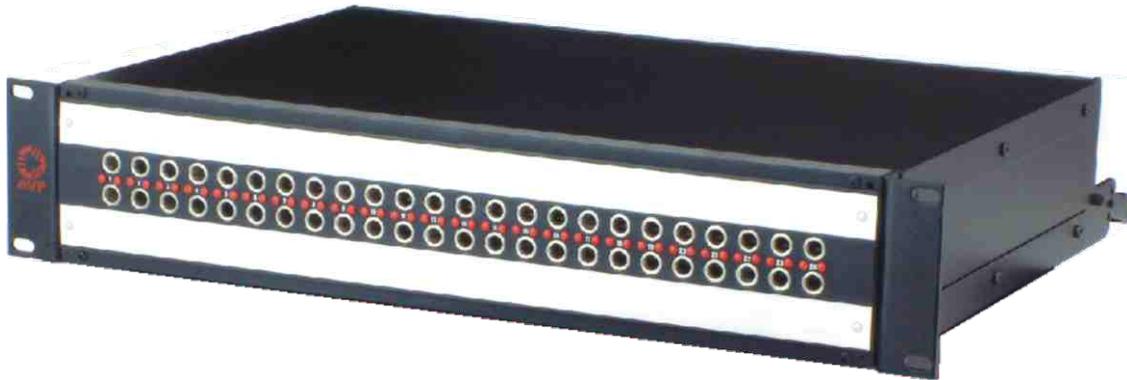


Punch Tip
 AT-RPT-TIP



Removal Tool Kit
 AT-RPT-RTK

Tooling



Model Number
 P - A 2 E - L - RPT

Series

- A Mosaic 
- T Mosaic (Black CIS)

Number of Jacks per Row

- 24 2x24 Jacks
- 26 2x26 Jacks

Panel Height

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

Normaling

- FN Full Normals installed at jacks
- FR Normals Out, with Full Normals installed on the Punch Block
- HN Half Normals installed at jacks
- HR Normals Out, with Half Normals installed on the Punch Block
- NN No Normals
- NT Normals Out
- NTS Sleeve Normals Out

Options, add to end of Model Number

- XS Jackfield Depth, Shallow, 10.75", 177.80mm
- BGHJ Bussed Grounds at jacks, horizontal
- SGVJ Strapped Grounds at each vertical jack pair

Longframe Full Enclosure Ordering Information

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

Popular Models

Model	Description
AP-A224E2-L-NT-RPT	2RU, 2x24 Longframe Jacks, Normals Out, RPT Punch Block
AP-A224E2-L-FN-RPT	2RU, 2x24 Longframe Jacks, Full Normals, RPT Punch Block
AP-A224E2-L-HN-RPT	2RU, 2x24 Longframe Jacks, Half Normals, RPT Punch Block
AP-A224E1-L-FN-RPT	1RU, 2x24 Longframe Jacks, Full Normals, RPT Punch Block
AP-A224E1-L-HN-RPT	1RU, 2x24 Longframe Jacks, Half Normals, RPT Punch Block

Longframe Patchcords

	2', 600mm	 LPC-2-BLACK	 LPC-2-RED	 LPC-2-GREEN	 LPC-2-BLUE	 LPC-2-YELLOW
	3', 900mm	LPC-3-BLACK	LPC-3-RED	LPC-3-GREEN	LPC-3-BLUE	LPC-3-YELLOW
	4', 1200mm	LPC-4-BLACK	LPC-4-RED	LPC-4-GREEN	LPC-4-BLUE	LPC-4-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application ... more patchcords available on page 56

Patchcords



Model Number

U - A 2 - E - L - RPT

Series

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

Number of Jacks per Row

- 24** 2x24 Jacks
- 26** 2x26 Jacks

Panel Height

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

Normaling

- FN** Full Normals installed at jacks
- FR** Normals Out, with Full Normals installed on the Punch Block
- HN** Half Normals installed at jacks
- HR** Normals Out, with Half Normals installed on the Punch Block
- NN** No Normals
- NT** Normals Out
- NTS** Sleeve Normals Out

Options, add to end of Model Number

- Uxxx** Where xxx is the total umbilical length in inches
- BGHJ** Bussed Grounds at jacks, horizontal
- SGVJ** Strapped Grounds at each vertical jack pair

Longframe Umbilical Ordering Information

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

Popular Models

Model	Description
AU-A224E2-L-NT-RPT	2RU, 2x24 Longframe, Normals Out, 40"(1m) Umbilical, RPT Punch Block
AU-A224E2-L-FN-RPT	2RU, 2x24 Longframe, Full Normals, 40"(1m) Umbilical, RPT Punch Block
AU-A224E2-L-HN-RPT	2RU, 2x24 Longframe, Half Normals, 40"(1m) Umbilical, RPT Punch Block

Longframe Patchcords

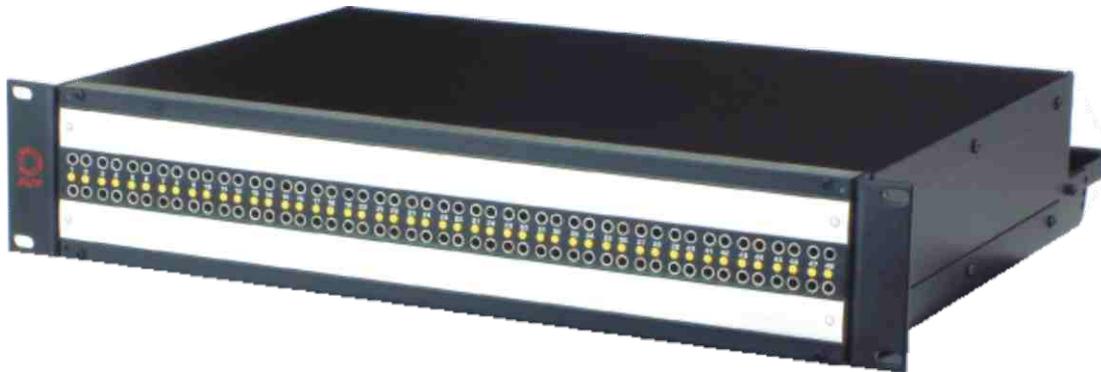


Length	Black	Red	Green	Blue	Yellow
2', 600mm	LPC-2-BLACK	LPC-2-RED	LPC-2-GREEN	LPC-2-BLUE	LPC-2-YELLOW
3', 900mm	LPC-3-BLACK	LPC-3-RED	LPC-3-GREEN	LPC-3-BLUE	LPC-3-YELLOW
4', 1200mm	LPC-4-BLACK	LPC-4-RED	LPC-4-GREEN	LPC-4-BLUE	LPC-4-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application

...more patchcords available on page 56

Patchcords



Model Number

P - B 2 48 - L - - RPT

Series

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

Jack Spacing

- S** Stereo Spaced (most common)
- 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

Normaling

- FN** Full Normals installed at jacks
- FR** Normals Out, with Full Normals installed on the Punch Block*
- HN** Half Normals installed at jacks
- HR** Normals Out, with Half Normals installed on the Punch Block*
- NN** No Normals
- NT** Normals Out*
- NTS** Sleeve Normals Out**

*Not available in 1RU **Not available in 1 & 1.5RU

Options, add to end of Model Number

- XS** Jackfield Depth, Shallow, 10.75", 177.80mm
- BGHJ** Bussed Grounds at jacks, horizontal
- SGVJ** Strapped Grounds at each vertical jack pair

Bantam Full Enclosure Ordering Information

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

Popular Models

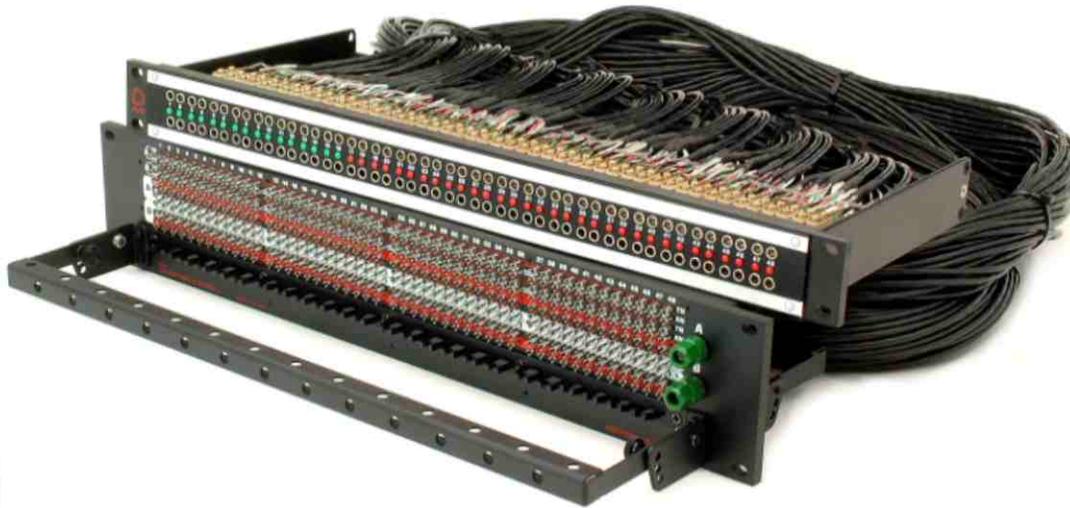
Model	Description
AP-B248S2-L-NT-RPT	2RU, 2x48 Bantam Jacks, Normals Out, RPT Punch Block
AP-B248S1-L-FN-RPT	1RU, 2x48 Bantam Jacks, Full Normals, RPT Punch Block
AP-B248S1-L-HN-RPT	1RU, 2x48 Bantam Jacks, Half Normals, RPT Punch Block



Bantam Patchcords					
2', 600mm	BPC-2-BLACK	BPC-2-RED	BPC-2-GREEN	BPC-2-BLUE	BPC-2-YELLOW
3', 900mm	BPC-3-BLACK	BPC-3-RED	BPC-3-GREEN	BPC-3-BLUE	BPC-3-YELLOW
4', 1200mm	BPC-4-BLACK	BPC-4-RED	BPC-4-GREEN	BPC-4-BLUE	BPC-4-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application ...more patchcords available on page 56

Patchcords



Model Number
 U - B 2 48 - L - - RPT

Series

- A Mosaic 
- T Mosaic (Black CIS)

Jack Spacing

- S Stereo Spaced (most common)
- 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

Normaling

- FN Full Normals installed at jacks
- FR Normals Out, with Full Normals installed on the Punch Block
- HN Half Normals installed at jacks
- HR Normals Out, with Half Normals installed on the Punch Block
- NN No Normals
- NT Normals Out
- NTS Sleeve Normals Out

Options, add to end of Model Number

- Uxxx Where xxx is the total umbilical length in inches
- BGHJ Bussed Grounds at jacks, horizontal
- SGVJ Strapped Grounds at each vertical jack pair

Bantam Umbilical Ordering Information

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

Popular Models

Model	Description
AU-B248S1-L-NT-RPT	1RU, 2x48 Bantam, Front Panel, Normals Out, 40", 1m Umbilical, RPT Punch Block
AU-B248S2-L-NT-RPT	2RU, 2x48 Bantam, Front Panel, Normals Out, 40", 1m Umbilical, RPT Punch Block
AU-B248S1-L-FN-RPT	1RU, 2x48 Bantam, Front Panel, Full Normals, 40", 1m Umbilical, RPT Punch Block
AU-B248S1-L-HN-RPT	1RU, 2x48 Bantam, Front Panel, Half Normals, 40", 1m Umbilical, RPT Punch Block

Bantam Patchcords



Length	Black	Red	Green	Blue	Yellow
2', 600mm	BPC-2-BLACK	BPC-2-RED	BPC-2-GREEN	BPC-2-BLUE	BPC-2-YELLOW
3', 900mm	BPC-3-BLACK	BPC-3-RED	BPC-3-GREEN	BPC-3-BLUE	BPC-3-YELLOW
4', 1200mm	BPC-4-BLACK	BPC-4-RED	BPC-4-GREEN	BPC-4-BLUE	BPC-4-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application

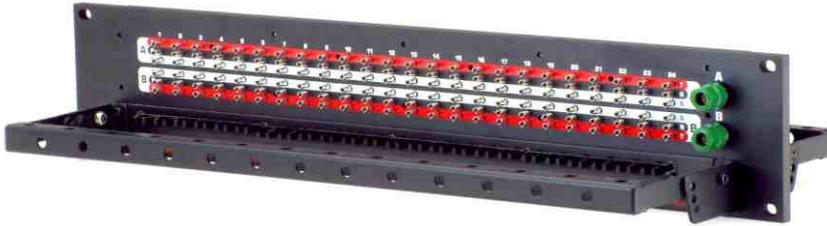
...more patchcords available on page 56

Patchcords

Rapid Punch Terminal Panels

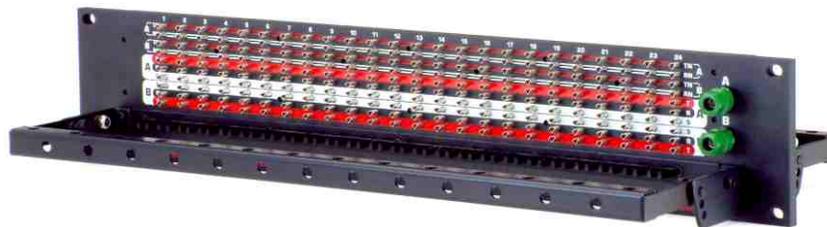
Color-coded and numbered, front and rear!

Rapid Punch Terminal Panels



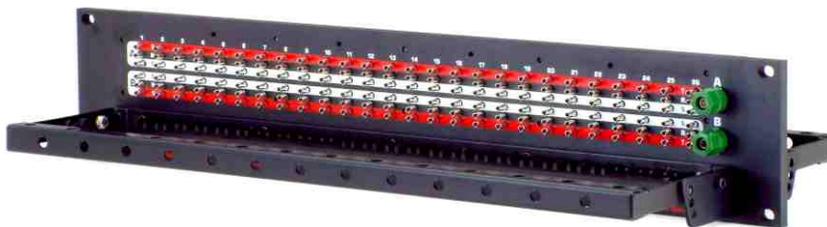
Model RPT48

3.50", 88.14mm panel
48 sets of tip, ring, sleeve
Terminates one 2x24 patchbay
Pivoting cable bar front & rear



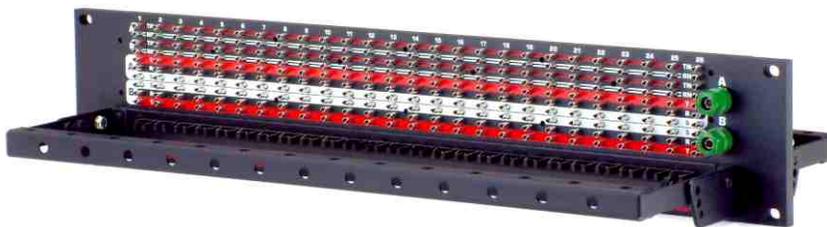
Model RPT48N

3.50", 88.14mm panel
48 sets of tip, ring, sleeve & normals
Terminates one 2x24 patchbay with
normals brought out
Pivoting cable bar front & rear



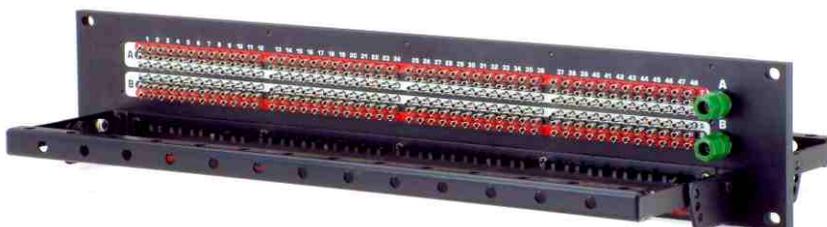
Model RPT52

3.50", 88.14mm panel
52 sets of tip, ring, sleeve
Terminates one 2x26 patchbay
Pivoting cable bar front & rear



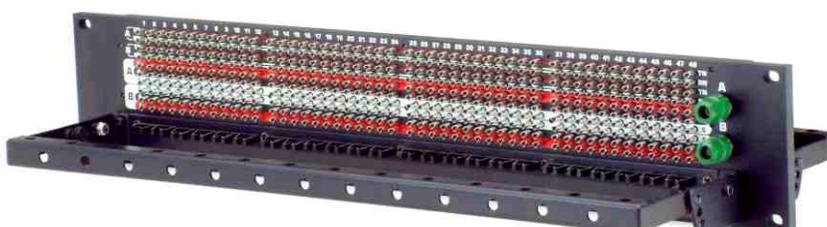
Model RPT52N

3.50", 88.14mm panel
52 sets of tip, ring, sleeve & normals
Terminates one 2x26 patchbay with
normals brought out
Pivoting cable bar front & rear



Model RPT96

3.50", 88.14mm panel
96 sets of tip, ring, sleeve
Terminates one 2x48 bantam patchbay
Pivoting cable bar front & rear



Model RPT96N

3.50", 88.14mm panel
96 sets of tip, ring, sleeve & normals
Terminates one 2x48 bantam patchbay
with normals brought out
Pivoting cable bar front & rear

RPT Wall-Mount Punch Block & Integrated Cable Management Systems

Frames designed to stack on wall, links provided for shield bussing from block to block

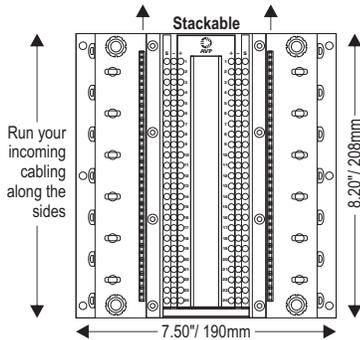
- Terminates 2 x 24 (T, R, S) circuits
- Terminates 20-28 gage solid or stranded, two wires per terminal, even 1 gage apart
- Oversize split cylinder, certified gas tight, heavy-duty rigid mounted terminal
- AVP Punch System allows clean one-step wire insertion and trimming
- Frames designed to stack on wall, links provided for shield bussing from block to block
- Circuit designation strip and title block. Everything at a glance!
- Color-coding and numbering makes circuit identification simple

For complete RPT specifications, see pages 12, 13 & 38

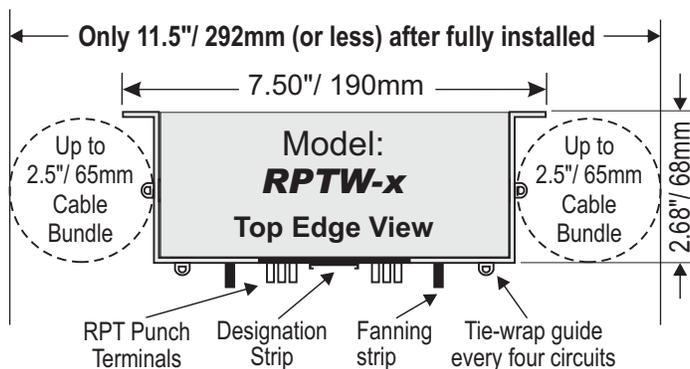


Features and Benefits

Punch Block with full cable management capabilities Model RPTW-x



Full Cable Management Capabilities



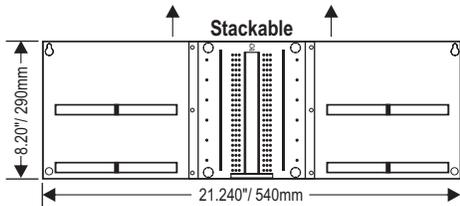
Please see page 22 for Configuration Options & Order Information

Punch Block with cable distribution rings Model RPTW-EXT-x

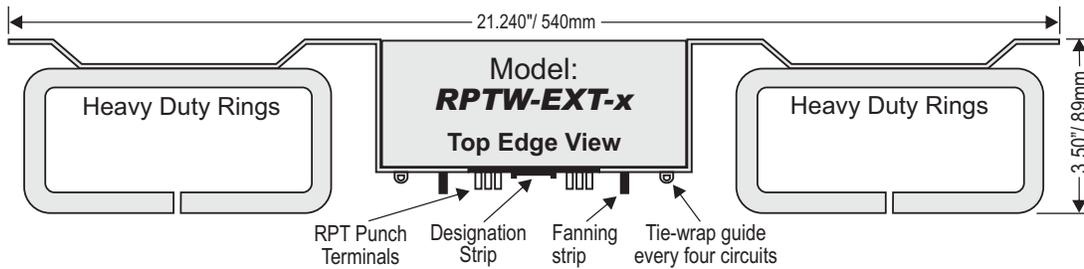
Cable Distribution Rings



RPTW-EXT-D

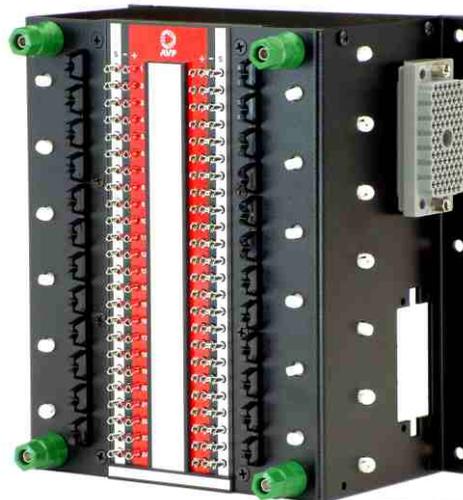
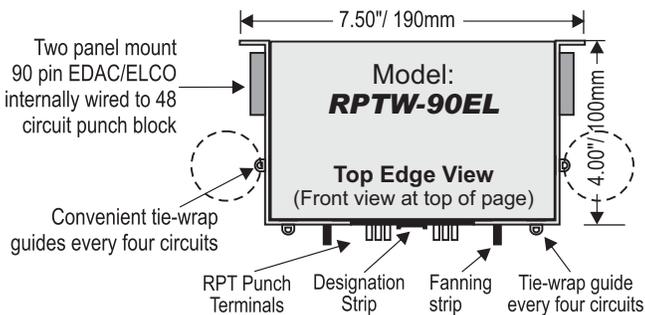


Please see page 22 for
Configuration Options
& Order Information



Punch Block with EDAC/ELCO interface Model RPTW-90EL

EDAC/ELCO Interface

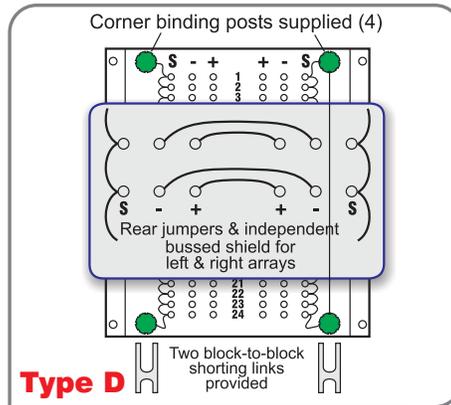
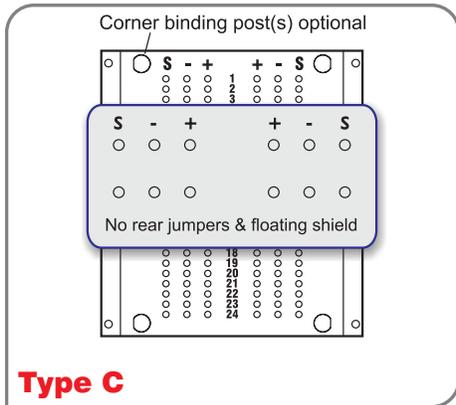
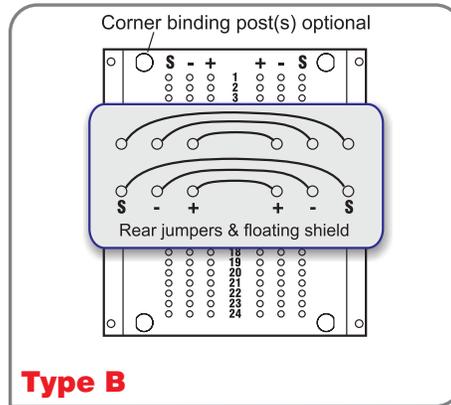
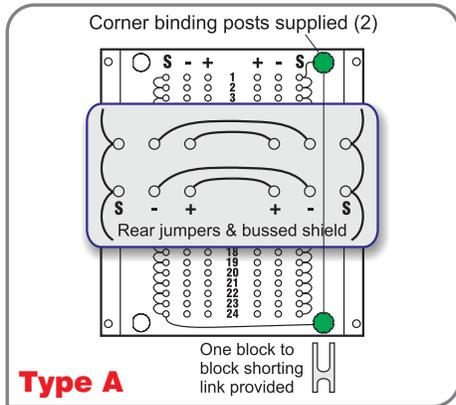


RPTW-90EL

Other connector interfaces are available

Four configurations to choose from

Four Configurations



Ordering Information

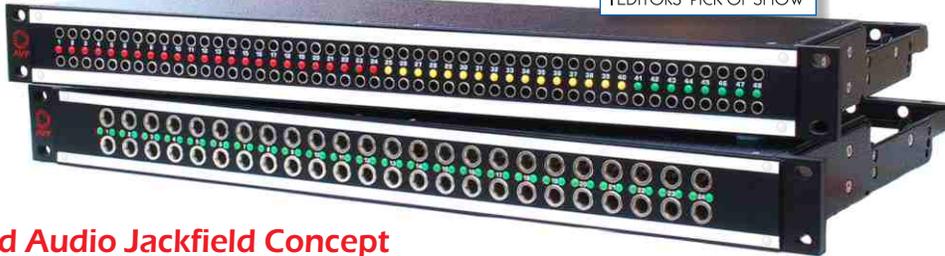
Ordering Information

Popular Models		
	Model	Description
RPTW-x & RPTW-EXT-x Series		
		x is replaced by A, B, C or D
Type A	RPTW-A RPTW-EXT-A	Punch Block with full cable management capabilities Punch Block with cable distribution rings
Type B	RPTW-B RPTW-EXT-B	Punch Block with full cable management capabilities Punch Block with cable distribution rings
Type C	RPTW-C RPTW-EXT-C	Punch Block with full cable management capabilities Punch Block with cable distribution rings
Type D	RPTW-D RPTW-EXT-D	Punch Block with full cable management capabilities Punch Block with cable distribution rings
Connectorized	RPTW-90EL	Punch Block with EDAC/ELCO interface
Accessories	B750 L750 R750 AT-RPT-PTK AT-RPT-TIP	Binding Post Shorting Link Cable Ring Punch Tool with Tip Punch Tip

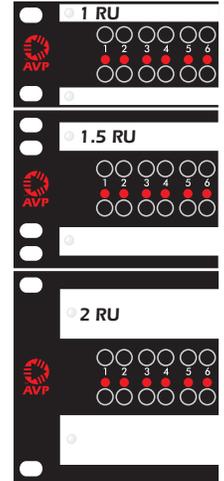
the AVP
MORPH
AUDIO SYSTEM™

the AVP
MORPH
AUDIO SYSTEM™

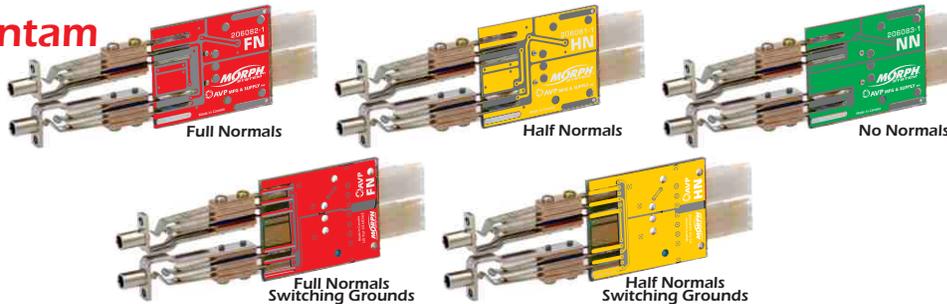
television
Broadcast
NAB
EDITORS' PICK OF SHOW



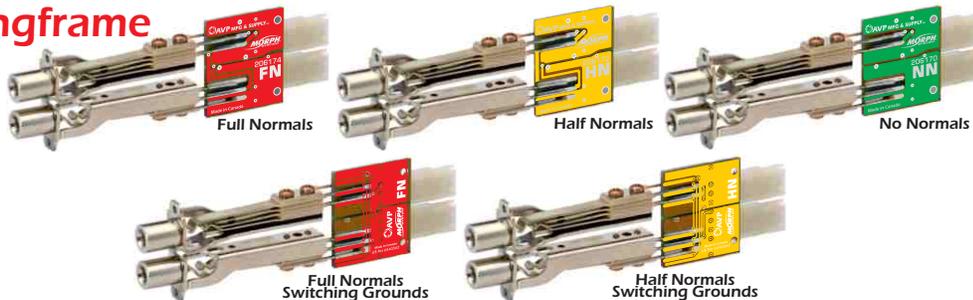
- Advanced Audio Jackfield Concept
- Next Generation Flexibility
- AES/EBU Digital and Analog Audio Application



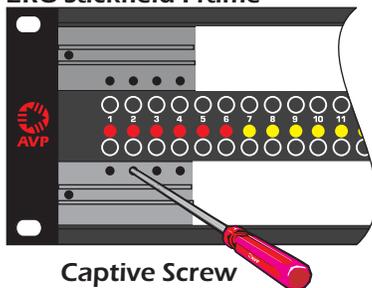
Bantam



Longframe



2RU Jackfield Frame



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



... see page 38

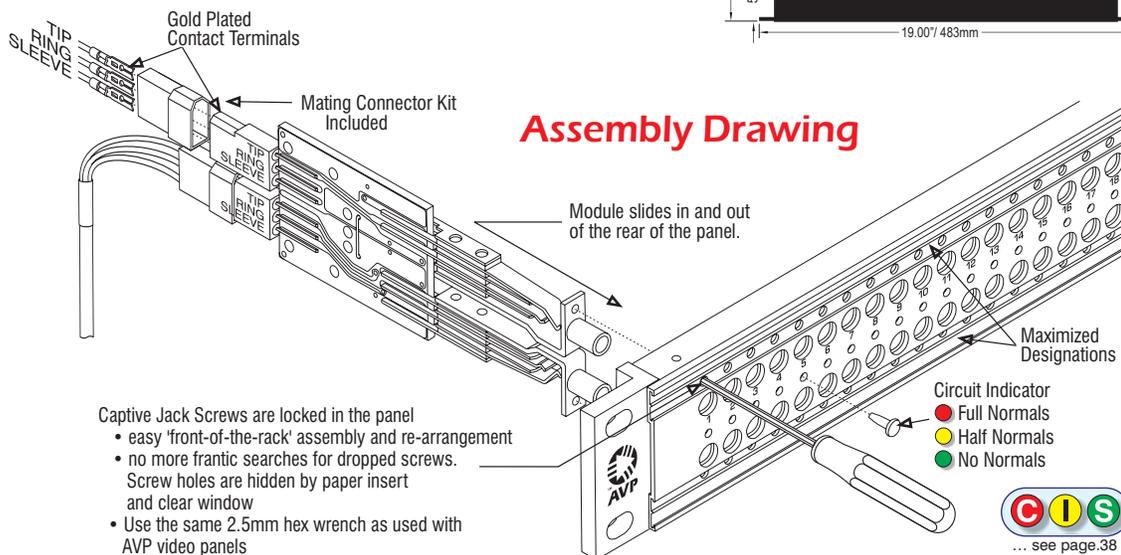
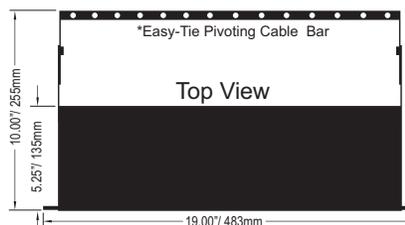
Features and Benefits

The award-winning Morph Audio System excels in specialty application requirements as found in mobile units and harsh environments. Its EDAC 3-pin terminations 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 jackfield assembly or re-configuration in minutes! Morph modules fit 1, 1.5 & 2 Rack Unit frames.



Assembly Drawing

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



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



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



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

Mating Connector Kit

Tooling

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

Ordering Information
(over)



Series

- A** Mosaic (CIS)
- 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

- KZ** No Mating Connector Kit
- KS** Solder Mating Connector Kit
- SGVM** Strapped grounds at each vertical jack pair

Longframe Ordering Information

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

Popular Models and Components

Model	Description
Complete Jackfields	
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
MK224P-E03S	EDAC 3Pin Primaries Kit for 2x24 Patchbay, Solder
MK226P-E03S	EDAC 3Pin Primaries Kit for 2x26 Patchbay, Solder

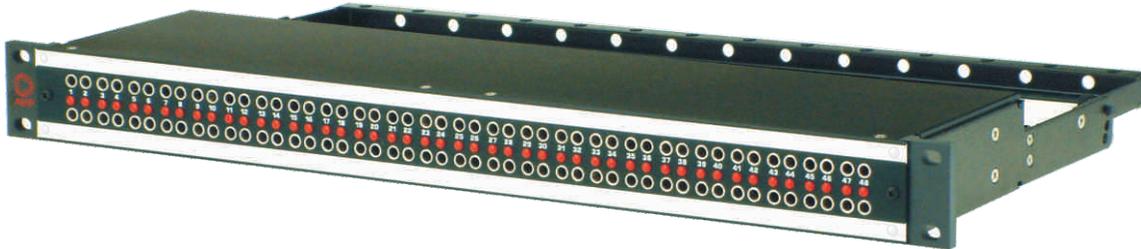
Longframe Patchcords

Length	Color	Model	Color	Model	Color	Model
1'	Black	LPC-1-BLACK	Red	LPC-1-RED	Green	LPC-1-GREEN
1.5'	Black	LPC-1.5-BLACK	Red	LPC-1.5-RED	Green	LPC-1.5-GREEN
2'	Black	LPC-2-BLACK	Red	LPC-2-RED	Green	LPC-2-GREEN
3'	Black	LPC-3-BLACK	Red	LPC-3-RED	Green	LPC-3-GREEN
4'	Black	LPC-4-BLACK	Red	LPC-4-RED	Green	LPC-4-GREEN
6'	Black	LPC-6-BLACK	Red	LPC-6-RED	Green	LPC-6-GREEN
10'	Black	LPC-10-BLACK	Red	LPC-10-RED	Green	LPC-10-GREEN
					Blue	LPC-1-BLUE
					Blue	LPC-1.5-BLUE
					Blue	LPC-2-BLUE
					Blue	LPC-3-BLUE
					Blue	LPC-4-BLUE
					Blue	LPC-6-BLUE
					Blue	LPC-10-BLUE
					Yellow	LPC-1-YELLOW
					Yellow	LPC-1.5-YELLOW
					Yellow	LPC-2-YELLOW
					Yellow	LPC-3-YELLOW
					Yellow	LPC-4-YELLOW
					Yellow	LPC-6-YELLOW
					Yellow	LPC-10-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application

... more patchcords available on page 56

Longframe Audio Patchcords



Model Number

M - B 2 48 - L - E03

Series

- A Mosaic 
- T Mosaic (Black CIS)

Module Spacing

- S Stereo Spaced (most common)
- 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

- KZ No Mating Connector Kit
- KS Solder Mating Connector Kit
- SGVM Strapped grounds at each vertical jack pair

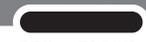
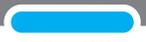
Bantam Ordering Information

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

Popular Models and Components

Model	Description
Complete Jackfields	
AM-B248S1-L-FN-E03	1RU, 2x48 Frame with 48 Dual Full Normal Modules (AM-B-FN-E03) installed, Mating Connector Kit
AM-B248S1-L-HN-E03	1RU, 2x48 Frame with 48 Dual Half Normal Modules (AM-B-HN-E03) installed, Mating Connector Kit
AM-B248S1-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 Patchcords						
1'	300mm	BPC-1-BLACK	BPC-1-RED	BPC-1-GREEN	BPC-1-BLUE	BPC-1-YELLOW
1.5'	450mm	BPC-1.5-BLACK	BPC-1.5-RED	BPC-1.5-GREEN	BPC-1.5-BLUE	BPC-1.5-YELLOW
2'	600mm	BPC-2-BLACK	BPC-2-RED	BPC-2-GREEN	BPC-2-BLUE	BPC-2-YELLOW
3'	900mm	BPC-3-BLACK	BPC-3-RED	BPC-3-GREEN	BPC-3-BLUE	BPC-3-YELLOW
4'	1200mm	BPC-4-BLACK	BPC-4-RED	BPC-4-GREEN	BPC-4-BLUE	BPC-4-YELLOW
6'	1800mm	BPC-6-BLACK	BPC-6-RED	BPC-6-GREEN	BPC-6-BLUE	BPC-6-YELLOW
10'	3.05m	BPC-10-BLACK	BPC-10-RED	BPC-10-GREEN	BPC-10-BLUE	BPC-10-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application ...more patchcords available on page 56

Bantam Audio Patchcords

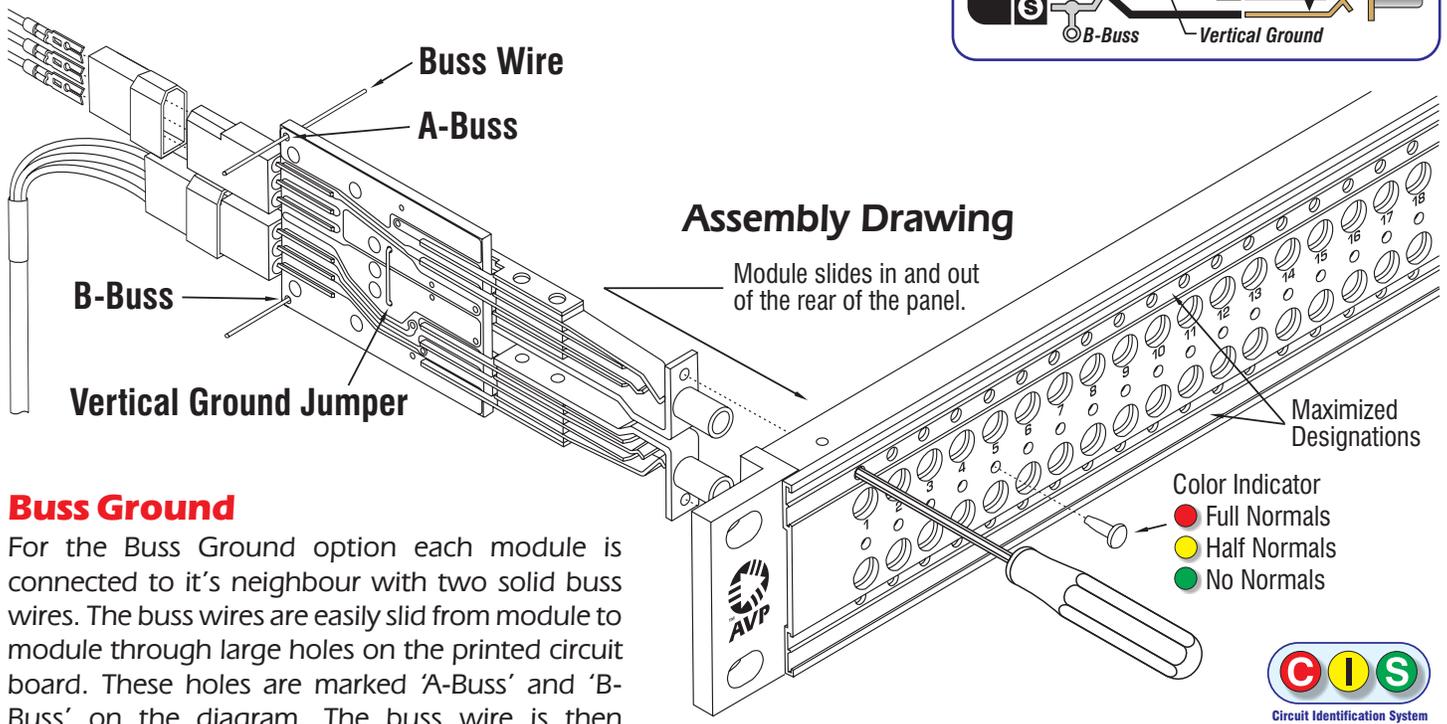
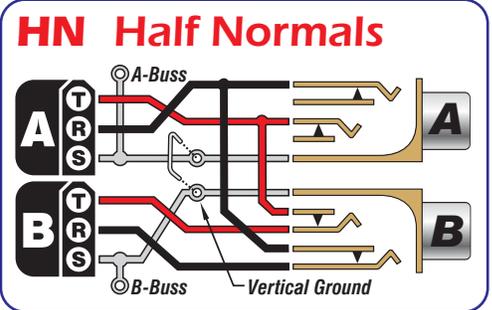


Morph Module Grounding

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.

- Color Indicator
- Full Normals
 - Half Normals
 - No Normals

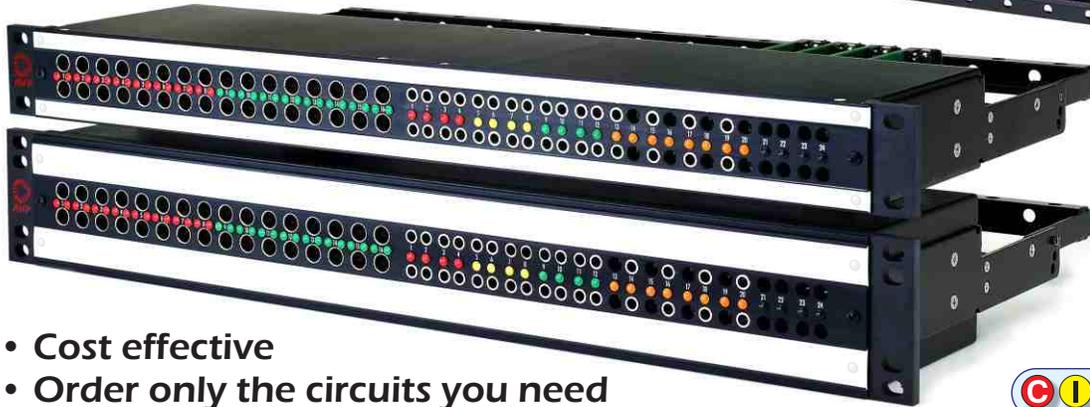


Normaling Descriptions

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

*US Patent No. 6,540,562

Super^{HD+} Series HD Audio/Video/Data Combo



- Cost effective
- Order only the circuits you need
- Easily expanded at a later date
- Enclosure provides neat installation
- Capacity: up to 16 Midsize video & up to 24 Bantam audio
- Available in 1RU, 1.5RU & 2RU

Application:

- Video; HDTV, serial digital, analog
- Audio; AES/EBU digital & analog
- Perfect for non-linear edit suites
- With the RS422 module, panel functions as a passive edit suite router for video, audio and machine control combined into one jackfield

Panel Features:

- CIS (Circuit Identification system) allows color-coding of each circuit's function, available in 10 colors
- Video and audio jacks are front mounted, featuring captive screws, simplify system redesign and maintenance
- Maximized designations
- Heavy-duty pivoting cable bar
- Jackfield shipped with crimp-pin mating connector kit and a captive hex driver

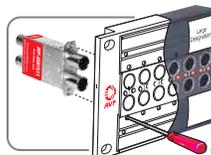
Video Features:

- 16 SuperHD+ 3.0GHz - 3Gb/s Midsize video jack positions
- Jacks meet SMPTE 424M-2006 specs
- Life cycle rating of 30,000
- 4 different jack configurations available

Audio Features:

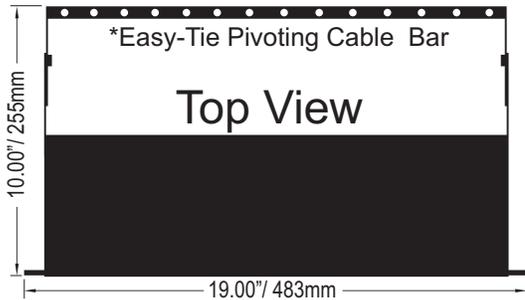
- 24 Bantam audio jack positions with stereo spacing
- AVP Morph Audio System
- Modules available feature Full Normals, Half Normals, No Normals, Full & Half Normals with Switching Grounds and *RS422 Polarity Protected
- Modules are terminated with EDAC/ELCO 3 pin interface
- Life cycle rating of 30,000

Features and Benefits



AVP Mosaic Panel

Captive screws stay in the panel, not lost in the rack



AVP Datacord Polarity Protected



- Reduce the risk of equipment damage!
- Keyed jacks and patchcords eliminate inadvertent cross-patches

*The jacks and plugs of these modules are polarized for the user's protection. However, use of patchcords other than the AVP Datacord, or any other pair transposition within the customer's equipment will circumvent this polarity protection.

Polarity Protection

AVP Midsize 3.0GHz - 3Gb/s Dual Video Jacks



AVP-AMN75
Normaled, Terminating



AVP-AM75
Non-Normaled, Terminating



AVP-AMN
Normaled, Non-Terminating



AVP-AM
Non-Normaled, Non-Terminating

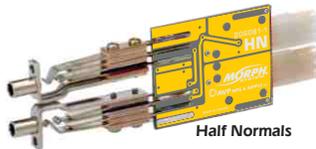
Video jack specs... page 5

Video Jacks

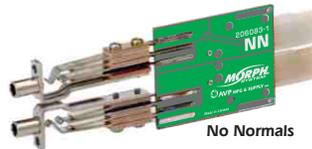
AVP Morph Bantam Audio Jack Modules



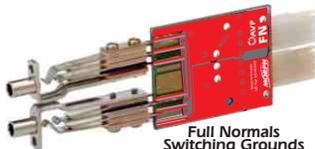
Full Normals



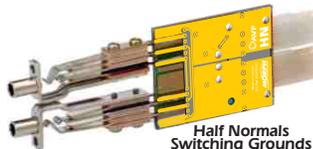
Half Normals



No Normals



Full Normals
Switching Grounds



Half Normals
Switching Grounds

Audio jack specs... page 38

Audio Jack Modules

Tools

Each Morph Jackfield is shipped complete with its crimp-pin mating connector kit and a captive hex driver.



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



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



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



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

Tools

HD Audio/Video/Data Combo

Ordering Information

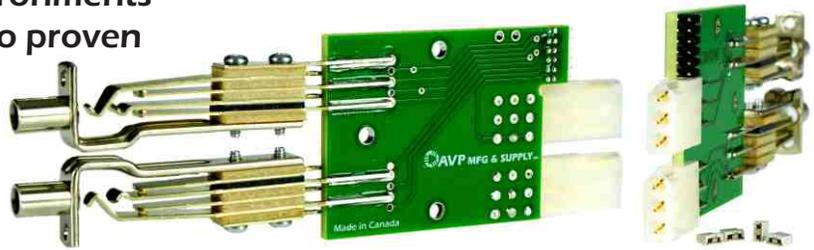
Model	Description
Complete Jackfields	
AM-DBS2-L-AMN75/AM-B-FN-E03	2RU, 2x16 3.0GHz - 3Gb/s AMN75 Normaled, Terminating Dual video jacks, 2x24 Dual Full Normal Morph audio Modules installed, mating connector kit
AM-DBS15-L-AMN75/AM-B-FN-E03	1.5RU, 2x16 3.0GHz - 3Gb/s AMN75 Normaled, Terminating Dual video jacks, 2x24 Dual Full Normal Morph audio Modules installed, mating connector kit
AM-DBS1-L-AMN75/AM-B-FN-E03	1RU, 2x16 3.0GHz - 3Gb/s AMN75 Normaled, Terminating Dual video jacks, 2x24 Dual Full Normal Morph audio Modules installed, mating connector kit
Individual Components	
AM-DBS2-Z	2RU, 2x16 Midsized & 2x24 Bantam frame with pivoting cable bar, empty
AM-DBS15-Z	1.5RU, 2x16 Midsized & 2x24 Bantam frame with pivoting cable bar, empty
AM-DBS1-Z	1RU, 2x16 Midsized & 2x24 Bantam frame with pivoting cable bar, empty
AMN75	Normaled, Terminating Dual Midsized video jack
AM75	Non-Normaled, Terminating Dual Midsized video jack
AMN	Normaled, Non-Terminating Dual Midsized video jack
AM	Non-Normaled, Non-Terminating Dual Midsized video jack
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-B-FNSG-E03	Dual Bantam Module, Full Normals Switching Grounds, EDAC 3 pin termination
AM-B-HNSG-E03	Dual Bantam Module, Full Normals Switching Grounds, EDAC 3 pin termination
DAT-2-RED	AVP Datacord, 2' (600mm) Dual Bantam Polarity Protected patchcord
DAT-3-RED	AVP Datacord, 3' (900mm) Dual Bantam Polarity Protected patchcord

Ordering Information

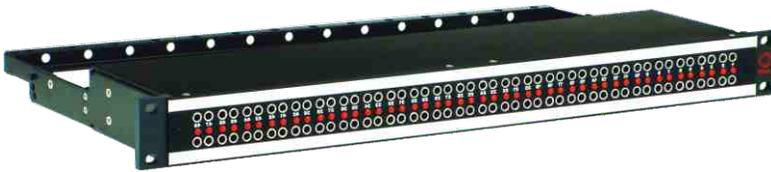
Delta Series Programmable Jackfield System

Featuring: AVP Patented  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



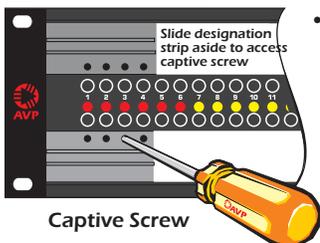
- Available in 1RU, 1.5RU & 2RU
- Bantam and Longframe
- Application: AES/EBU, Analog
- Access Programming Links at rear of panel



Programming Options

A TIP	A RING	<ul style="list-style-type: none"> • Full Normals • Half Normals • No Normals • Bussed Grounds • Vertical Grounds • Switching Grounds version also available
B TN	B RN	
A TN	A RN	
A SN	B SN	
A SLV	B SLV	
A BUSS	B BUSS	
		
<p>Rear View of Module with EDAC 3 pin connector interface (Sleeve = Ground)</p>		

2RU Jackfield Frame



Panel Features:

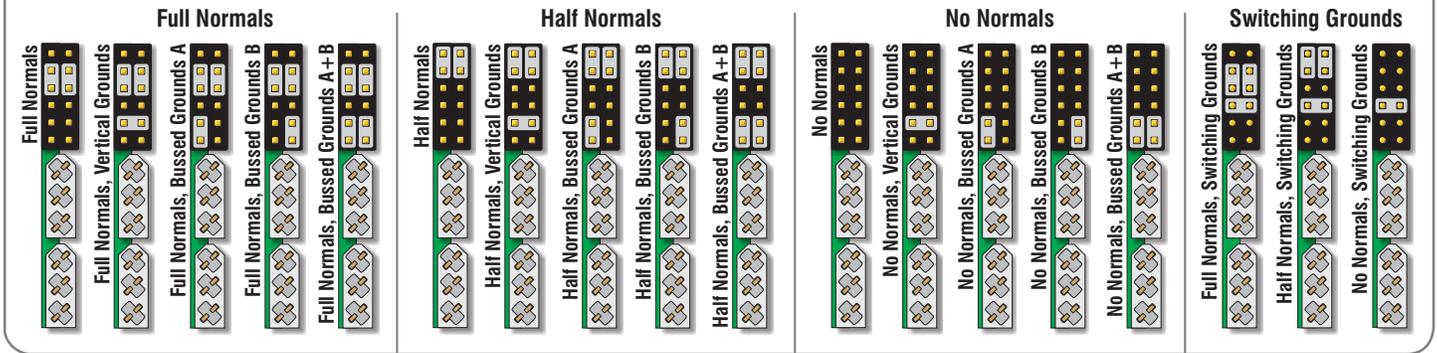
- CIS (Circuit Identification system) allows color-coding of each circuit's function, available in 10 colors
- Maximized designations
- Jackfield shipped with crimp-pin mating connector kit and a captive hex key (where applicable)

Studio or Mobile:

Morph style modules simplify system design, saves space, adds flexibility, reliability and reduces weight.



Normalizing with the Programming Links



Model Number

R - **2** **E** - **L** - **E03** -

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

Options, add to end of Model Number

- KZ** No Mating Connector Kit

Installed Programming, all Modules Field Reconfigurable

Standard Longframe or Bantam Module

- FN** Full Normals
- FNBG** Full Normals, Bussed Grounds
- FNVG** Full Normals, Vertical Grounds
- HN** Half Normals
- HNBG** Half Normals, Bussed Grounds
- HNVG** Half Normals, Vertical Grounds
- NN** No Normals
- NNBG** No Normals, Bussed Grounds
- 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

Ordering Information

Programming Link Specifications

Materials

- Moldings: 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

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

Mating Connector & Programming Link Kits

Connectorized 90 Pin



**Full Enclosure
Longframe
Ordering
Information**

Model Number
P - A 2 - E - L - E90

Series

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

Number of Jacks per Row

- 24** 2x24 Jacks
- 26** 2x26 Jacks

Panel Height

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

Normaling

- FN** Full Normals installed at jacks
- HN** Half Normals installed at jacks
- NN** No Normals

Options, add to end of Model Number

- XS** Jackfield Depth, Extra Short, 7.00", 177.8mm
- XL** Jackfield Depth, Extra Deep, 16.00", 406.4mm
- BGHJ** Bussed Grounds at jacks, horizontal
- SGVJ** Strapped Grounds at each vertical jack pair
- KZ** No Mating Connector Kit
- KS** Solder Mating Connector Kit

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

Popular Models

Model	Description
AP-A224E1-L-FN-E90	1RU, 2x24 Longframe Jacks, Full Normals, EDAC 90 Pin Termination, Mating Connector Kit
AP-A224E1-L-HN-E90	1RU, 2x24 Longframe Jacks, Half Normals, EDAC 90 Pin Termination, Mating Connector Kit
MK224P-E90C	EDAC 90 pin Primaries Kit for 2x24 patchbay, Crimp
MK226P-E90C	EDAC 90 pin Primaries Kit for 2x26 patchbay, Crimp
MK224P-E90S	EDAC 90 pin Primaries Kit for 2x24 patchbay, Solder
MK226P-E90S	EDAC 90 pin Primaries Kit for 2x26 patchbay, Solder

Each Connectorized Jackfield is shipped complete with its crimp-pin Mating Connector Kit



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



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



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



90 Pin Metal Cover
(not included in Mating Connector Kit)
AVP Model **AP-MCE90**



**Mating
Connector Kit**

Tooling

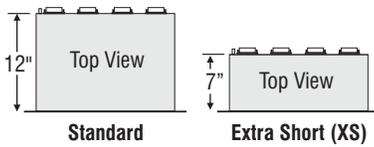
patchcords
available on
page 56





All AVP audio jackfields are suitable for AES/EBU digital & analog audio patching

Normaling Descriptions



Available Full Enclosure Depths



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

- Jack Spacing**
- S Stereo Spaced (most common)
 - 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

- Normaling**
- FN Full Normals installed at jacks
 - HN Half Normals installed at jacks
 - NN No Normals

- Options, add to end of Model Number**
- XS Jackfield Depth, Extra Short, 7.00", 177.8mm
 - BGHJ Bussed Grounds at jacks, horizontal
 - SGVJ Strapped Grounds at each vertical jack pair
 - KZ No Mating Connector Kit
 - KS Solder Mating Connector Kit

Full Enclosure Bantam Ordering Information

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

Popular Models	
Model	Description
AP-B248S1-L-FN-E90	1RU, 2x48 Bantam Jacks, Full Normals, EDAC 90 pin termination, Mating Connector Kit
AP-B248S1-L-HN-E90	1RU, 2x48 Bantam Jacks, Half Normals, EDAC 90 pin termination, Mating Connector Kit
MK248P-E90C	EDAC 90 pin Primaries Kit for 2x48 patchbay, Crimp
MK248P-E90S	EDAC 90 pin Primaries Kit for 2x48 patchbay, Solder

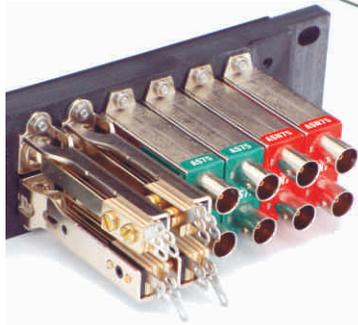
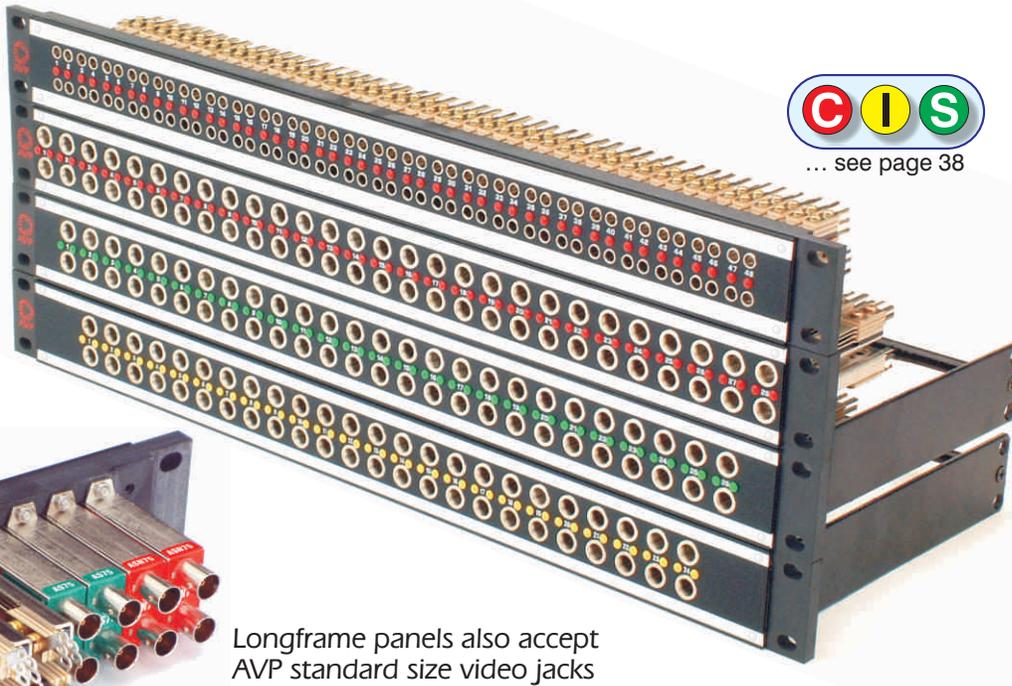
**38 & 56 Pin available upon request*

Bantam Patchcords

	2', 600mm		BPC-2-BLACK		BPC-2-RED		BPC-2-GREEN		BPC-2-BLUE		BPC-2-YELLOW
	3', 900mm		BPC-3-BLACK		BPC-3-RED		BPC-3-GREEN		BPC-3-BLUE		BPC-3-YELLOW
	4', 1200mm		BPC-4-BLACK		BPC-4-RED		BPC-4-GREEN		BPC-4-BLUE		BPC-4-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application ...more patchcords available on page 56

Features and Benefits



Longframe panels also accept AVP standard size video jacks

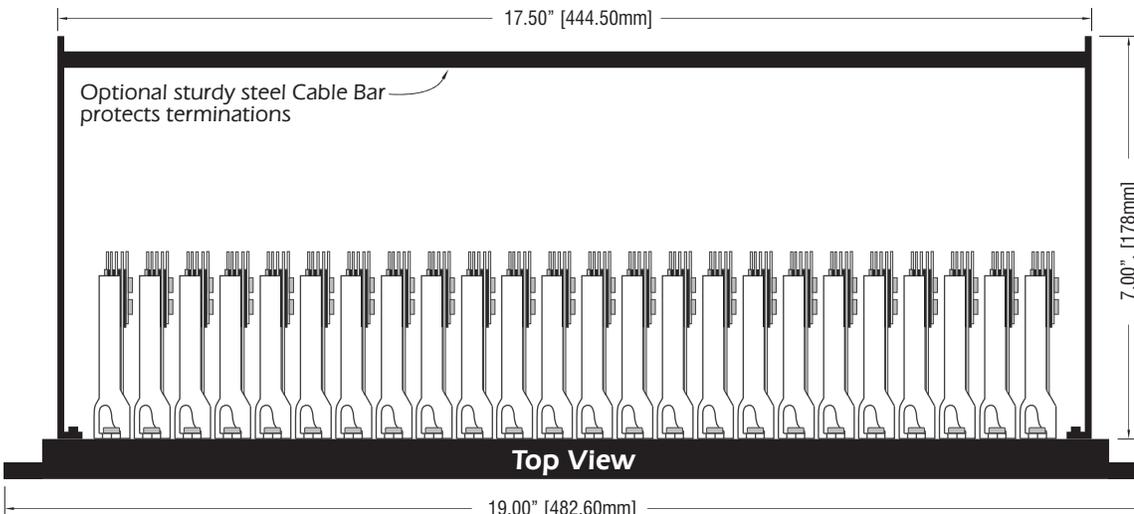


Panel Features

- Extensive Selection
 - Bantam, 2x48
 - Longframe, 2x24, 2x26, 2x28
 - 1RU, 1.5RU or 2RU
- Maximized Designations
- Front-mounting Jacks
- Captive Screws
- Heavy Duty Construction
- Cable bars secure all terminations (optional)

Audio Jack Features

- AVP Longframe and Bantam Jacks
- Certified for 30,000 mating cycles
 - Nickel-plated for corrosion resistance
 - Self-wiping gold contacts
 - Solder tail or wire-wrap (full specifications on page 38)



Longframe



Shown with Optional Cable Bar



Series

- A Mosaic 
- T Mosaic (Black CIS)

Number of Jacks per Row

- 24 2x24 Jacks
- 26 2x26 Jacks

Panel Height

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

Cable Bar Option

- BZ No Cable Bar
- B10 7" [178mm] Cable Bar

Normaling

- FN Full Normal jumpers installed at jacks
- HN Half Normal jumpers installed at jacks
- NN No Normal jumpers installed at jacks

Installed Jack Type

- A1S Longframe Jacks with solder lugs
- Z None (empty panel)

Longframe Ordering Information

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

Popular Models

Model	Description
Longframe Jackpanels	
AJ-A224E1-A1S-BZ	1RU, 2x24, 48 Longframe Jacks with solder tails, no cable bar
AJ-A224E2-A1S-BZ	2RU, 2x24, 48 Longframe Jacks with solder tails, no cable bar

Longframe Jacks

AJ-A1S	1 Longframe Jack, solder, front-mount
AJ-A2S-FN	2 Longframe Jacks, solder, front-mount, Full Normal
AJ-A2S-HN	2 Longframe Jacks, solder, front-mount, Half Normal

Longframe Patchcords

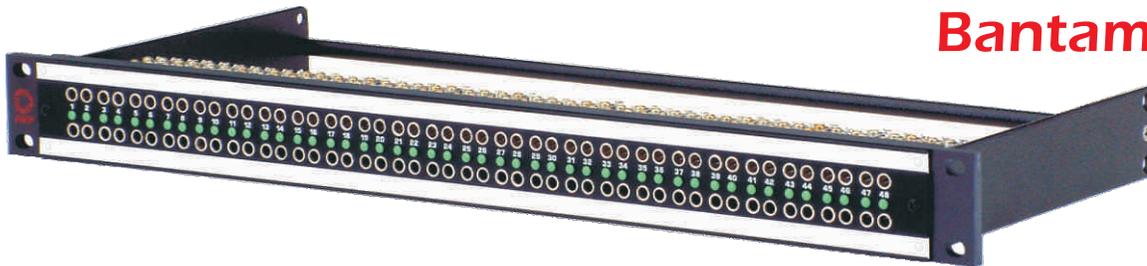


Length	Color	Model	Color	Color	Color	Color		
1'	Black	LPC-1-BLACK	Red	LPC-1-RED	Green	LPC-1-GREEN	LPC-1-BLUE	LPC-1-YELLOW
1.5'	Black	LPC-1.5-BLACK	Red	LPC-1.5-RED	Green	LPC-1.5-GREEN	LPC-1.5-BLUE	LPC-1.5-YELLOW
2'	Black	LPC-2-BLACK	Red	LPC-2-RED	Green	LPC-2-GREEN	LPC-2-BLUE	LPC-2-YELLOW
3'	Black	LPC-3-BLACK	Red	LPC-3-RED	Green	LPC-3-GREEN	LPC-3-BLUE	LPC-3-YELLOW
4'	Black	LPC-4-BLACK	Red	LPC-4-RED	Green	LPC-4-GREEN	LPC-4-BLUE	LPC-4-YELLOW
6'	Black	LPC-6-BLACK	Red	LPC-6-RED	Green	LPC-6-GREEN	LPC-6-BLUE	LPC-6-YELLOW
10'	Black	LPC-10-BLACK	Red	LPC-10-RED	Green	LPC-10-GREEN	LPC-10-BLUE	LPC-10-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application

... more patchcords available on page 56

Longframe Audio Patchcords



Bantam

Shown with Optional Cable Bar

Model Number

J - B 2 48

Series	Cable Bar Option
A Mosaic 	BZ No Cable Bar
T Mosaic (Black CIS)	B10 7" [178mm] Cable Bar
Jack Spacing	Normalizing
S Stereo Spaced (most common)	FN Full Normal jumpers installed at jacks
E Even Spaced	HN Half Normal jumpers installed at jacks
Panel Height	NN No Normal jumpers installed at jacks
1 1 Rack Unit 1.75", 44mm	Installed Jack Type
15 1.5 Rack Unit 2.62", 66mm	B1S Bantam Jacks with solder lugs
2 2 Rack Unit 3.50", 89mm	Z None (empty panel)

Bantam Ordering Information

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

Popular Models	
Model	Description
Bantam Jackpanels	
AJ-B248S1-B1S-BZ	1RU, 2x48, 96 Bantam Jacks, no cable bar
AJ-B248S1-B1S-B10	1RU, 2x48, 96 Bantam Jacks, 7" [178mm] Cable Bar

Bantam Jacks	
AJ-B1S	1 Bantam Jack, solder, front-mount
AJ-B2S-FN	2 Bantam Jacks, solder, front-mount, Full Normal
AJ-B2S-HN	2 Bantam Jacks, solder, front-mount, Half Normal

Bantam Patchcords						
	1' 300mm	BPC-1-BLACK	BPC-1-RED	BPC-1-GREEN	BPC-1-BLUE	BPC-1-YELLOW
	1.5' 450mm	BPC-1.5-BLACK	BPC-1.5-RED	BPC-1.5-GREEN	BPC-1.5-BLUE	BPC-1.5-YELLOW
	2' 600mm	BPC-2-BLACK	BPC-2-RED	BPC-2-GREEN	BPC-2-BLUE	BPC-2-YELLOW
	3' 900mm	BPC-3-BLACK	BPC-3-RED	BPC-3-GREEN	BPC-3-BLUE	BPC-3-YELLOW
	4' 1200mm	BPC-4-BLACK	BPC-4-RED	BPC-4-GREEN	BPC-4-BLUE	BPC-4-YELLOW
	6' 1800mm	BPC-6-BLACK	BPC-6-RED	BPC-6-GREEN	BPC-6-BLUE	BPC-6-YELLOW
	10' 3.05m	BPC-10-BLACK	BPC-10-RED	BPC-10-GREEN	BPC-10-BLUE	BPC-10-YELLOW

110 Ohm AES/EBU Digital and Analog Audio Application ...more patchcords available on page 56

Bantam Audio Patchcords

AVP Circuit Identification System (CIS)

Mosaic jackfields are shipped with each jack normalizing type identified by color, but interchangeable indicators are available in 10 colors so you can color-code your system according to your own system design. (easily identify critical circuits, source and destination, signal type, etc)



AVP Circuit Identification System

-  **BLACK**
-  **GREEN**
-  **BROWN**
-  **BLUE**
-  **RED**
-  **PURPLE**
-  **ORANGE**
-  **GRAY**
-  **YELLOW**
-  **WHITE**

-  Full Normals
-  Half Normals
-  No Normals

- Bantam: 1 Indicator per circuit
- Longframe & Video: 2 Indicators per circuit

Model Number
CIS - [] - []

Number of Color Indicators		Color	
10	Package of 10	BLACK 	GREEN 
30	Package of 30	BROWN 	BLUE 
60	Package of 60	RED 	PURPLE 
100	Package of 100	ORANGE 	GRAY 
		YELLOW 	WHITE 
		- MULTI of each color	

Ordering Information



Jackfields with this insignia feature the AVP Circuit Identification System (CIS)

Additional information on inside front cover.

Audio Jack Specifications

Features and Benefits

- Certified for 30,000 mating cycles
- Nickel-plated for corrosion resistance
- Made and assembled in the USA
- Self-cleaning Gold Contacts
- Steel jack frame for superior jack life
- Offset ground terminal for ease in making common ground buss connections
- Solder lugs for Tip, Ring, Sleeve, Tip Normal, Ring Normal

Materials

- Frame: Steel, nickel-plated
- Bushing: Brass, nickel-plated
- Springs: Nickel-plated, solder lugs
- Ground Terminal: Nickel-plated, solder lugs
- Gold switching contacts
- Insulation: Phenolic spacers, rigid PVC tubing through stack
- Screws: Steel, nickel-plated



Electrical

- Contact Resistance: Less than .020 Ohms
- Contact Rating: .75 AMP @ 140 VDC
- Working Voltage: 140 VDC
- Insulation: 500 VAC for 1 minute
- Working Temperature Range: -40C to +85C

Panel Specifications

Material:

- Arboron thermo-laminate layers
- UL94 Flame Class / 94 VO
- UL card# E96516(M) June 17, 1986
- Full specification available upon request.



RPT Specifications

AVP Rapid Punch Terminal

- Barrel Diameter: 0.125"
- Material: Phosphor bronze, bright tin plate, special temper
- Wire Gage Capacity: 20 thru 28, stranded or solid
- Insulation Dia. Max: 0.086"
- Number of Wires per Terminal:
 - 1 or 2 wires per side. For 2 wires, gage of wire can be mixed providing they are 1 gage apart. (i.e. 20 & 22, 24 & 26)
- Re-Usability: Minimum 300 terminations
- Bare Wires: Must be sleeved with PVC tubing before termination
- Current Rating: 5 amperes / 22 AWG wire
- Test Specifications comply with MIL-STD-202, MIL-STD-1344 & EIA RS-364



Specifications

Datapatch/RS422



JR-16N

Application

- Computer Data Interconnection
- RS422 Patching
- Universal Machine Control
- Editor to VTR Patching

Application & Features



JR-32N

Features

- Patch between any two data paths with reliable audio-type patchcord
- Easy interconnection of data ports (9-pin D connectors with screwlocks)
- Enclosed steel chassis (19", 480mm rack-mount x 12", 300mm deep)



JR-48N

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

Polarity Protected



AVP Databcord

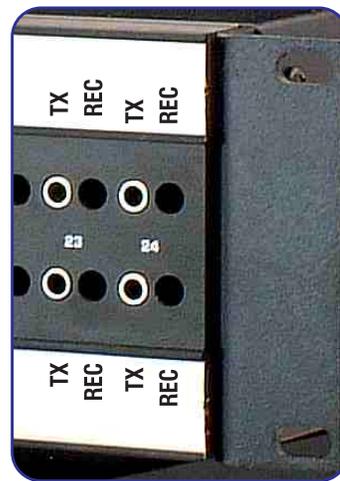
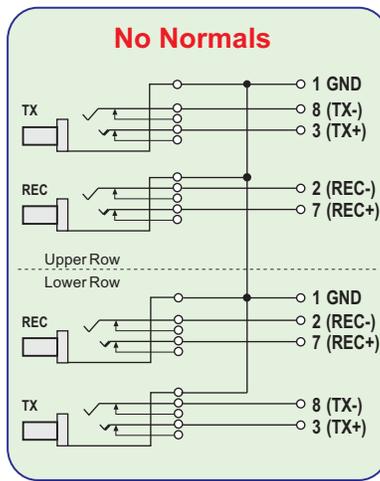
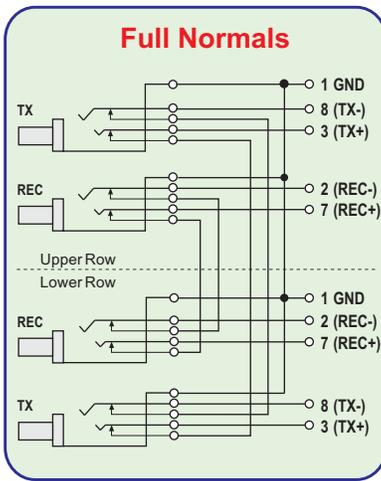
- Reduce the risk of equipment damage!
- Keyed jacks and patchcords eliminate inadvertent cross-patches

The jacks and plugs of this jackfield are polarized for the user's protection. However, use of patchcords other than the AVP Databcord, or any other pair transposition within the customer's equipment will circumvent this polarity protection.

- Datapatch Polarity Protected Bantam Patchcords: 2', [600mm] and 3', [900mm]. Please see page 56.

Polarity Protected

Datapatch Schematic



Datapatch Schematic

TX: Transmit
REC: Receive

Note 1.
Grounds are bussed unless requested otherwise.

Note 2.
The jacks and plugs of this jackfield are polarized for the user's protection. However, use of patch cords other than the AVP Databcord or any other pair transposition within the customer's equipment will circumvent this polarity protection.

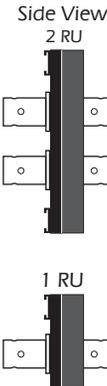
Product Listing

Model	Description
Datapatch / RS422	
JR-16N	1RU 1.75", 45mm Panel, 8 Send/Receive Circuit Pairs, Full Normals installed at jacks
JR-16	1RU 1.75", 45mm Panel, 16 Circuits, No Normals
JR-32N	2RU 3.50", 89mm Panel, 16 Send/Receive Circuit Pairs, Full Normals installed at jacks
JR-32	2RU 3.50", 89mm Panel, 32 Circuits, No Normals
JR-48N	2RU 3.50", 89mm Panel, 24 Send/Receive Circuit Pairs, Full Normals installed at jacks
JR-48	2RU 3.50", 89mm Panel, 48 Circuits, No Normals

Ordering Information

- Heavy-duty Rigid Phenolic Panels
- Attractive textured black semi-gloss finish
- Hi-Performance BNC-BNC and F-F Connectors
- Configurations up to 3x24 available

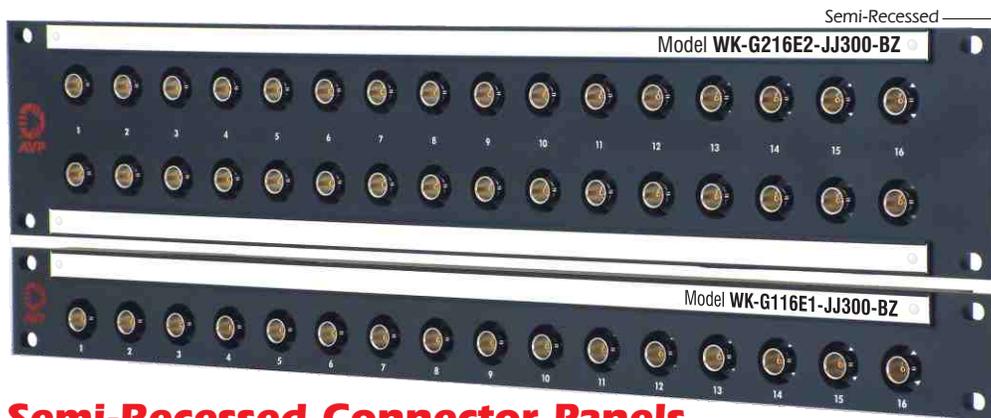
Features



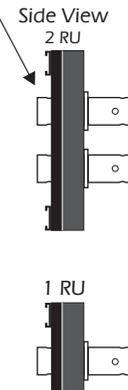
BNC-BNC Non-Recessed

Non-Recessed Connector Panels

- AVP Hi-Performance JJ300 BNC-BNC Connectors, for Analog to Digital Applications up to 3GHz



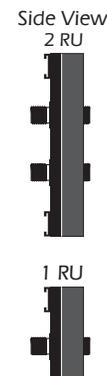
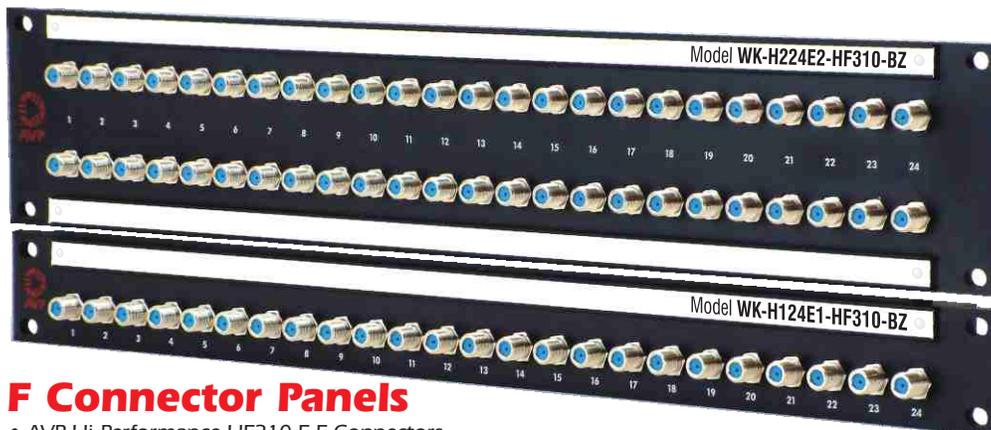
Semi-Recessed



BNC-BNC Semi-Recessed

Semi-Recessed Connector Panels

- AVP Hi-Performance JJ300 BNC-BNC Connectors, for Analog to Digital Applications up to 3GHz

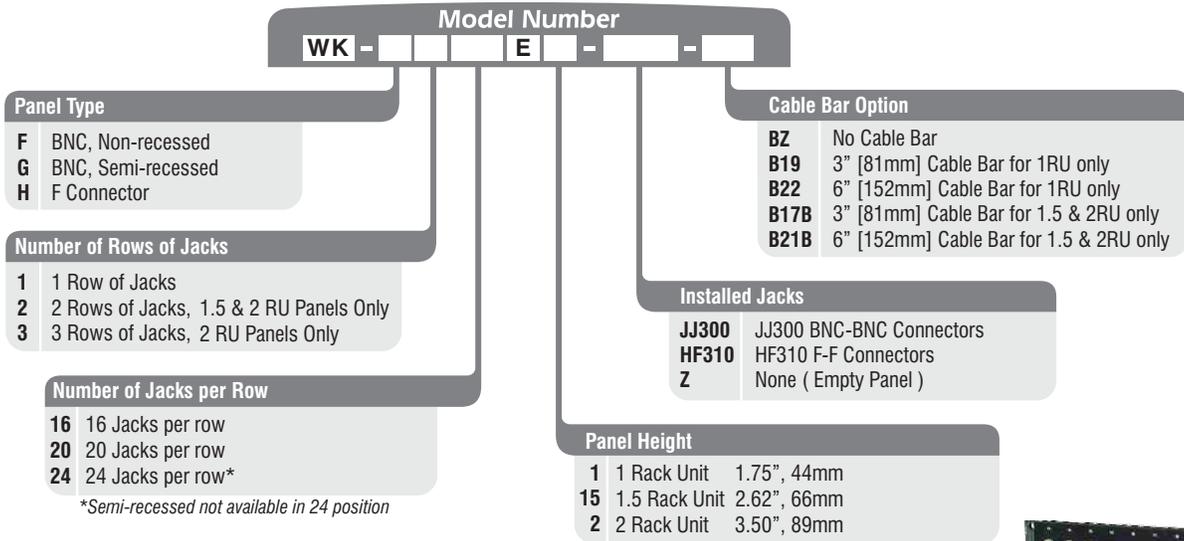


F-F Connector

F Connector Panels

- AVP Hi-Performance HF310 F-F Connectors

Ordering Information



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



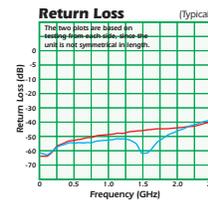
WK-G216E2-JJ300-B21B shown

Popular Models (Configurations up to 3x24 are available)	
Model	Description
BNC-BNC Non-recessed Connector Panels	
WK-F116E1-JJ300-BZ	1RU, 1x16 position, BNC-BNC non-recessed panel, 16 JJ300 connectors, no cable bar
WK-F216E2-JJ300-BZ	2RU, 2x16 position, BNC-BNC non-recessed panel, 32 JJ300 connectors, no cable bar
WK-F320E2-JJ300-BZ	2RU, 3x20 position, BNC-BNC non-recessed panel, 60 JJ300 connectors, no cable bar
WK-F216E2-Z-BZ	2RU, 2x16 position, BNC-BNC non-recessed panel, empty, no cable bar
BNC-BNC Semi-recessed Connector Panels	
WK-G116E1-JJ300-BZ	1RU, 1x16 position, BNC-BNC semi-recessed panel, 16 JJ300 connectors, no cable bar
WK-G216E2-JJ300-BZ	2RU, 2x16 position, BNC-BNC semi-recessed panel, 32 JJ300 connectors, no cable bar
WK-G320E2-JJ300-BZ	2RU, 3x20 position, BNC-BNC semi-recessed panel, 60 JJ300 connectors, no cable bar
WK-G216E2-Z-BZ	2RU, 2x16 position, BNC-BNC semi-recessed panel, empty, no cable bar
F-F Connector Panels	
WK-H116E1-HF310-BZ	1RU, 1x16 position, F connector panel, 16 HF310 connectors, no cable bar
WK-H216E2-HF310-BZ	2RU, 2x16 position, F connector panel, 32 HF310 connectors, no cable bar
WK-H324E2-HF310-BZ	2RU, 3x24 position, F connector panel, 72 HF310 connectors, no cable bar



HF310 Specifications

Description: High Performance F-81 Barrel Splice
Body Material: 360 Grade Brass, Bright Nickel Plated
Overall Length: 1.026" (26.06mm)
Hex Size: 0.44" (11.18mm)
Nut Width: 0.147" (37.34)
Insulator Material: Polypropylene
Center Pin Material: Beryllium Copper

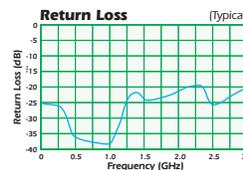


F Connector Specifications



JJ300 Specifications

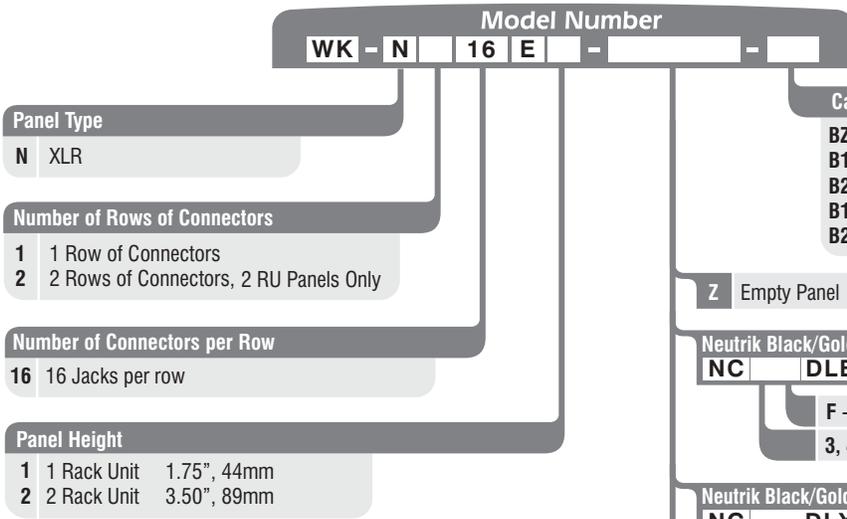
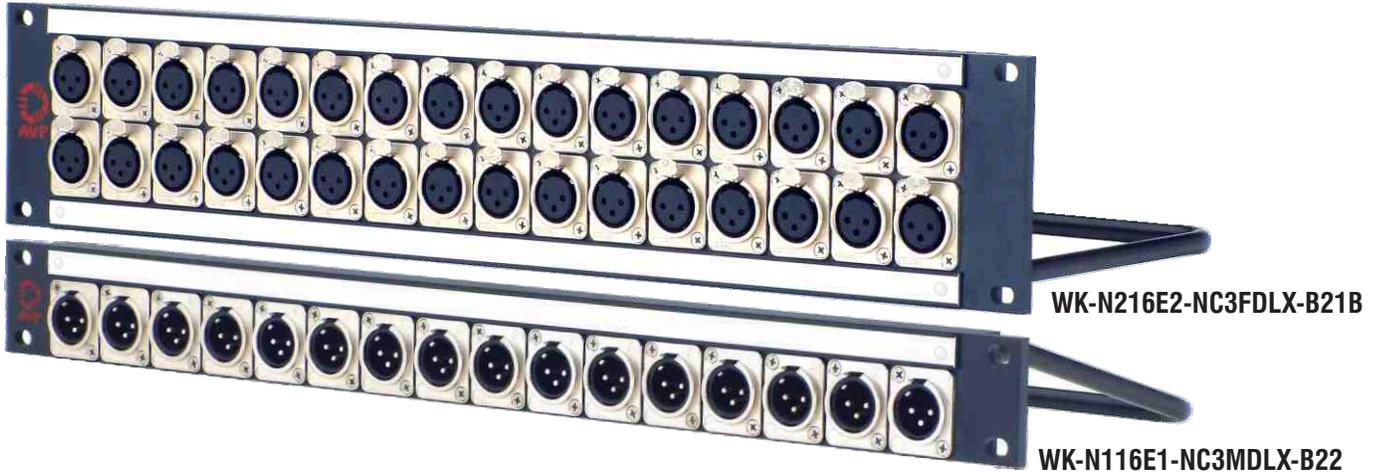
Description: 75 ohm Double BNC Female Bulkhead
Body Material: Brass, Bright Nickel Plated
Overall Length: 1.295" [32.90mm]
Barrel Diameter: 0.378" [9.60mm]
Nut Width: 0.551" [14.00mm]
Dielectric: Teflon, T-02015
Center Pin: Brass, Gold Plated



BNC Connector Specifications

XLR Connector Panels

- Male and female may be mixed on the same panel
- Tapped mounting holes
- 3" [81mm] or 6" [152mm] Strain relief cable bars available



Ordering Information

Cable Bar

BZ	No Cable Bar
B19	3" [81mm] Cable Bar for 1RU Panel
B22	6" [152mm] Cable Bar for 1RU Panel
B17B	3" [81mm] Cable Bar for 2RU Panel, at bottom
B21B	6" [152mm] Cable Bar for 2RU Panel, at bottom

Z Empty Panel

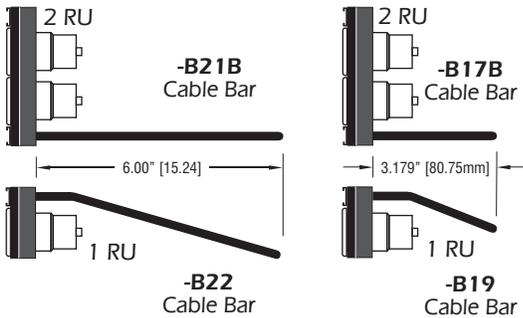
Neutrik Black/Gold DL Series with Solder Cups
NC **DLB1**
 F - Female M - Male
 3, 4, 5, 6 or 7 Number of Poles

Neutrik Black/Gold DLX Series with Solder Cups & Duplex Ground Contacts
NC **DLXB**
 F - Female M - Male
 3, 4, 5, 6 or 7 Number of Poles

Neutrik Nickel/Silver DL Series with Solder Cups
NC **DL1**
 F - Female M - Male
 3, 4, 5, 6 or 7 Number of Poles

Neutrik Nickel/Silver DLX Series with Solder Cups & Duplex Ground Contacts
NC **DLX**
 F - Female M - Male
 3, 4, 5, 6 or 7 Number of Poles

Cable Bar Side Views

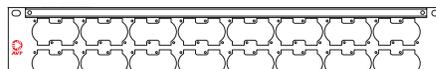
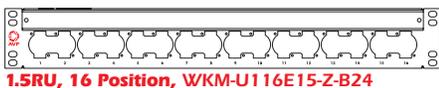
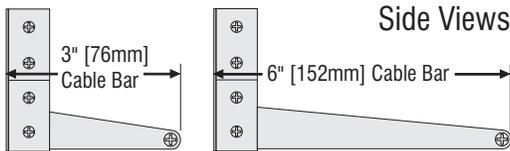


Universal Bulkhead Panel System Maxxum Series

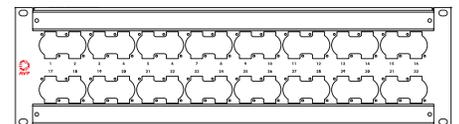


Featuring: _____

- MIS Color-Code System
- Expanded Module Selection
- Dual Width Modules
- Introduction of 1.5RU
- Choose 3" (76mm) or 6" (152mm) Strain Relief Cable Bar System



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



Ordering Information - Universal, Maxxum Series Bulkhead Panels

Model	Description
Metal Universal Panel - Panel with Cable Bar Only; no Connectors, no Adaptor Plates, no Cover Plates	
WKM-U116E1-Z-B23	1RU, 1x16 Metal Universal Panel, Panel & 3" [76mm] Cable Bar Only, No Connectors
WKM-U116E1-Z-B31	1RU, 1x16 Metal Universal Panel, Panel & 6" [152mm] Cable Bar Only, No Connectors
WKM-U116E15-Z-B24	1.5RU, 1x16 Metal Universal Panel, Panel & 3" [76mm] Cable Bar Only, No Connectors
WKM-U116E15-Z-B32	1.5RU, 1x16 Metal Universal Panel, Panel & 6" [152mm] Cable Bar Only, No Connectors
WKM-U216E2-Z-B25	2RU, 2x16 Metal Universal Panel, Panel & 3" [76mm] Cable Bar Only, No Connectors
WKM-U216E2-Z-B33	2RU, 2x16 Metal Universal Panel, Panel & 6" [152mm] Cable Bar Only, No Connectors
WKM-U216E3-Z-B26	3RU, 2x16 Metal Universal Panel, Panel & 3" [76mm] Cable Bar Only, No Connectors
WKM-U216E3-Z-B34	3RU, 2x16 Metal Universal Panel, Panel & 6" [152mm] Cable Bar Only, No Connectors

Options:

BUILD2	2 or 3RU Assembly of connectors to panel
BUILD1	1 or 1.5RU Assembly of connectors to panel

Ordering Information - Maxxum Color-Code Caps

MIS - [] - []

Number of Color-Code Caps	Cap Color
30 Package of 30	● BLACK ● GREEN
60 Package of 60	● BROWN ● BLUE
100 Package of 100	● RED ● PURPLE
	● ORANGE ● GRAY
	● YELLOW ● WHITE
	- MULTI of each color



Insulated Bulkheads

Connector Kits - Maxxum Series

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
FIBER OPTIC ST	
UMF-SMP-ST #907178	Multimode ST Mating Sleeve, Metal Housing, Phos. Bronze Sleeve
UMF-SMP-ST-DC #907179	Multimode ST Mating Sleeve, Metal Housing, Phos. Bronze Sleeve, 1 Dust Cap
UMF-SSP-ST #907180	Single Mode ST Mating Sleeve, Metal Housing, Zirconia Sleeve
UMF-SSP-ST-DC #907181	Single Mode ST Mating Sleeve, Metal Housing, Zirconia Sleeve, 1 Dust Cap
UMF-DMU-ST #907182	Duplex Multimode ST Mating Sleeve, Metal Housing, Phos. Bronzse Sleeve
UMF-DMU-ST-DC #907183	Duplex Multimode ST Mating Sleeve, Metal Housing, Phos. Bronzse Sleeve, 2 Dust Caps
UMF-DSU-ST #907184	Duplex Single Mode ST Mating Sleeve, Metal Housing, Zirconia Sleeve
UMF-DSU-ST-DC #907185	Duplex Single Mode ST Mating Sleeve, Metal Housing, Zirconia Sleeve, 2 Dust Caps
UMFO-DC-ST #907203	Metal Dust Cap & Chain for ST
FIBER OPTIC SC	
UMF-SMP-SC #907186	Multimode SC Mating Sleeve, Polymer Housing, Phos. Bronze Sleeve, Beige Color
UMF-SMP-SC-10G #907187	10Gig Multimode SC Mating Sleeve, Multimode, Polymer Housing, Aqua Color
UMF-SSP-SC #907190	Single Mode SC Mating Sleeve, Polymer Housing, Zirconia Sleeve, Blue Color
UMF-SSA-SC #907193	SC/APC Single Mode Mating Sleeve, Polymer Housing, Zirconia Sleeve, Green Color
UMF-DMP-SC #907188 *2 Spaces	Duplex Multimode SC Mating Sleeve, Polymer Housing, Beige Color
UMF-DMP-SC-10G #907189 *2 Spaces	Duplex 10Gig Multimode SC Mating Sleeve, Multimode, Polymer Housing, Aqua Color
UMF-DSP-SC #907191 *2 Spaces	Duplex Single Mode SC Mating Sleeve, Polymer Housing, Zirconia Sleeve, Blue Color
UMF-DSP-SC-SH #907192 *2 Spaces	Duplex Single Mode SC Mating Sleeve with Shutter, Poly. Housing, Zirconia Sl., Blue Color
UMF-DSA-SC #907194 *2 Spaces	Duplex SC/APC Single Mode Mating Sleeve, Polymer Housing, Zirconia Sleeve, Green Color
FIBER OPTIC LC	
UMF-SMP-LC #907195	Multimode LC Mating Sleeve, Phos. Bronze Sleeve, Beige Color
UMF-SSP-LC #907196	Single Mode LC Mating Sleeve, Zirconia Sleeve, Blue Color
UMF-SSA-LC #907197	LC/APC Single Mode Mating Sleeve, Zirconia Sleeve, Green Color
UMF-DMP-LC-SCF #907198	Duplex Multimode LC Mating Sleeve, Beige Color, SC Footprint
UMF-DMP-LC-10G-SCF #907199	10Gig Duplex Multimode LC Mating Sleeve, Aqua Color, SC Footprint
UMF-DSP-LC-SCF #907200	Duplex Single Mode LC Mating Sleeve, Zirconia Sleeve, Blue Color, SC Footprint
UMF-DSA-LC-SCF #907201	LC/APC Duplex LC Mating Sleeve, Zirconia Sleeve, Green Color, SC Footprint
UMF-DSP-LC-SCF-SH #907202	Duplex Single Mode LC Mating Sleeve with Shutter, Zirconia Sleeve, Blue Color
OpticalCON DUO	
UMNO2-4FDW-A #907378	OpticalCON Chassis connector with black chromium plating, 4 solder contacts and 1 LC-Duplex feedthru socket
UMNO2-4FDW-1-A #907219	OpticalCON 1 LC-Duplex feedthru socket, 1 shell ground contact (for SMPTE cable shield)
OpticalCON QUAD	
UMNO4FDW-A #907379	OpticalCON Chassis connector, black chromium plating

*Requires 2 Panel Spaces

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
Data - Network - Multimedia	
Neutrik Ethercon	
<i>Cat5e 110 Punch IDC</i>	
UMNE8FDV-Y110 #907383	Cat5e, Panel mount receptacle with IDC 110 punch down terminals, nickel chassis
UMNE8FDV-Y110-B #907384	Cat5e, Panel mount receptacle with IDC 110 punch down terminals, black chassis
<i>Cat5e Krone Punch IDC</i>	
UMNE8FDV-YK #907220	Cat5e, Panel mount receptacle with IDC Krone punch down terminals, nickel chassis
UMNE8FDV-YK-B #907322	Cat5e, Panel mount receptacle with IDC Krone punch down terminals, black chassis
<i>Cat5e Feedthru</i>	
UMNE8FDP #907385	RJ45 Feedthru receptacle, nickel chassis
UMNE8FDP-B #907386	RJ45 Feedthru receptacle, black chassis
<i>Cat 6 Tool-less</i>	
UMNE8FDY-C6 #907387	Cat 6, IDC, Toolless, nickel chassis
UMNE8FDY-C6-B #907274	Cat 6, IDC, Toolless, black chassis
Ethernet	
UM2RJ45-6AFS #907213	*Cat6A, RJ45, Feedthru, female to female, Shielded
UM2RJ45-6FS #907214	**Cat6, RJ45, Feedthru, female to female, Shielded
UM2RJ45-6AS #907215	*Cat6A, Shielded, RJ45, Tool-less or 110/Krone Punchdown, 23-26AWG, stranded or solid, h/w
UM2RJ45-6S #907216	**Cat6, Shielded, RJ45, Tool-less or 110/Krone Punchdown, 23-26AWG, stranded or solid, h/w
* For Cat3 to Cat6A shielded/unshielded applications ** For Cat3 to Cat6 shielded/unshielded applications	
RJ11 (RJ12) Feedthru	
UMRJ11-F #907217	RJ11 (RJ12) 6 Pos/ 6 Conductor, IDC interface, Toolless
RJ11 (RJ12) IDC Toolless	
UMRJ11 #907218	RJ11 (RJ12) 6 pos/6 con, Feedthru, female-female
Firewire	
UMFW-4 #907261	Firewire 4 pin Feedthru, female-female, IEEE1394
UMNA1394-6-W #907262	Firewire 6 IEEE 1394 6-pole receptacles on both ends, nickel chassis
UMNA1394-6-W-B #907380	Firewire 6 IEEE 1394 6-pole receptacles on both ends, black chassis
USB	
UMSB-A #907303	USB 2, Type A to A, Feedthru, female-female, black chassis
UMSB-B #907305	USB 2, Type B to B, Feedthru, female-female, black chassis
UMNAUSB-W #907381	Reversible USB gender changer (A to B, B to A), Nickel chassis
UMNAUSB-W-B #907304	Reversible USB gender changer (A to B, B to A), black chassis
UMSB3-A #907446	USB 3, Type A to A, Feedthru, female-female, black chassis
HDMI	
UMHDMI-DFF #907266	HDMI 1.3 feedthru adapter, nickel chassis
UMNAHDMI-W-B #907272	HDMI 1.3 feedthru adapter, black chassis
DVI	
UMDVI-FF #907204	DVI female to female feedthru, 24+5, black/gold, *Requires 2 panel spaces

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
D Sub9 & HD15	
UMD9-FF #907205	D-Sub 9-pin Female to Female Feedthru
UMD9-MM #907206	D-Sub 9-pin Male to Male Feedthru
UMD9-MF #907207	D-Sub 9-pin Male to Female Feedthru
UMD9-FM #907208	D-Sub 9-pin Female to Male Feedthru
UMD15HD-FF #907209	D-Sub 15-pin Female to Female Feedthru
UMD15HD-MM #907210	D-Sub 15-pin Male to Male Feedthru
UMD15HD-MF #907211	D-Sub 15-pin Male to Female Feedthru
UMD15HD-FM #907212	D-Sub 15-pin Female to Male Feedthru
UMDB9-CF #907253	DB9 Female, socket contacts - crimp
UMDB9-CM #907254	DB9 Male, pin contacts - crimp
UMDB9-SCF #907255	DB9 Female, solder-cup
UMDB9-SCM #907256	DB9 Male, solder-cup
UMDB9-SF #907257	DB9 Female, solder-cup
UMDB9-SM #907258	DB9 Male, solder-cup
UMHD15-CF #907263	HD15, Female, socket contacts - crimp
UMHD15-CM #907264	HD15, Male, pin contacts - crimp
UMHD15-SF #907265	HD15 Female, solder-cup
UMHD15-SM #907081	HD15 Male, solder-cup
VIDEO	
BNC	
UMJJ300 #907221	BNC Feedthru, 3 GHz, AVP JJ300, 75 ohm, non-recessed, female-female, black plate
UMJJ300R #907267	BNC Feedthru, 3 GHz, AVP JJ300, 75 ohm, semi-recessed, female-female, black chassis
UMBNC50-F #907250	BNC Coaxial Feedthru, 50 ohm, female-female
UMBNC50-FR #907539	BNC Coaxial Feedthru, 50 ohm, Semi-Recessed, female-female
UMNBB75DFI #907388	BNC connector, Feedthru, full recessed, nickel chassis
UMNBB75DFIB #907389	BNC connector, Feedthru, full recessed, black chassis
UMNBB75DFIB-P #907273	BNC connector, Feedthru, semi-recessed, black chassis
SVHS	
UMSVHS-4G #907308	SVHS Feedthru, 4 pin, gold plated
UMSVHS-4GR #907540	SVHS Feedthru, 4 pin, semi-recessed, gold plated
UMSVHS-4N #907309	SVHS Feedthru, 4 pin, nickel plated
UMSVHS-4NR #907541	SVHS Feedthru, 4 pin, semi-recessed, nickel plated
F - TNC - SMA	
UMTNC-F #907310	TNC coaxial adapter, Feedthru, female-female, 50 Ohm
UMHF310 #907222	F Style Feedthru
UMSMA #907306	SMA Feedthru

Contact AVP if your required connector is not shown



Insulated Bulkheads

Connector Kits - Maxxum Series

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
AUDIO	
AVP Baluns	
UMBLN-XFB #907244	AVP Universal Panel-mount Balun, female XLR 3Pin 110 Ohm, to BNC 75 Ohm
UMBLN-XMB #907245	AVP Universal Panel-mount Balun, male XLR 3Pin 110 Ohm, to BNC 75 Ohm
UMBLN-BXF #907246	AVP Universal Panel-mount Balun, BNC 75 Ohm, to female XLR 3Pin 110 Ohm
UMBLN-BXM #907247	AVP Universal Panel-mount Balun, BNC 75 Ohm, to male XLR 3Pin 110 Ohm
UMBLN-XFB-10 #907248	AVP Universal Panel-mount Balun, fem XLR 3Pin 110 Ohm, to BNC 75 Ohm, -10dB att.
UMBLN-BXF-10 #907249	AVP Universal Panel-mount Balun, BNC 75 Ohm, to female XLR 3Pin 110 Ohm, -10dB att.
Edac 3 Pin	
UME3R-C #907259	3 Pin EDAC Receptacle with crimp pins
UME3R-S #907260	3 Pin EDAC Receptacle with solder pins
N Connectors	
UMN320 #907279	N Style Feedthru, 50 Ohm
XLR Adapters	
UMNA3FDM #907282	XLR female-male Feedthru adapter for panel mount
UMNA3MDF #907283	XLR male-female Feedthru adapter for panel mount
SpeakON Chassis Connectors	
UMNL2MP #907275	2 pole chassis connector, black D-size flange. Does not intermate with the 4-pole cableconnector
UMNL4MP #907276	4 pole chassis connector, black D-size flange, silver contacts
UMNL4MP-B #907277	4 pole chassis connector, black D-size flange, gold contacts
RCA to RCA Feedthru	
UMRCA-R #907297	RCA Feedthru, red. MIS red cap included
UMRCA-W #907298	RCA Feedthru, white. MIS white cap included
UMRCA-Y #907298	RCA Feedthru, yellow. MIS yellow cap included
UMRCA-B #907321	RCA Feedthru, blue. MIS blue cap included
UMRCA-G #907320	RCA Feedthru, green. MIS green cap included
UMRCA-O #907542	RCA Feedthru, orange. MIS orange cap included
UMRCA-K #907543	RCA Feedthru, black. MIS black cap included
Phone Jacks, rear solder terminals	
UMNJ3FP6C #907390	1/4" Stereo/Mono Locking phone jack, D-size shell, nickel metal housing, silver contacts
UMNJ3FP6C-B #907391	1/4" Stereo/Mono Locking phone jack, D-size shell, black metal housing, gold contacts
UMNJ3FP6C-BAG #907307	1/4" Stereo/Mono Locking phone jack, D-size shell, black metal housing, silver contacts
UMS35J #907302	3.5mm Stereo Phone Jack
Midi and Toslink	
UMMIDI #907270	MIDI Isolated Connector, solder type
UMTOS #907311	Toslink optical audio coupler, Feedthru
*Requires 2 Panel Spaces	

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
XLR BLACK/GOLD DL SERIES	
UMNC3FD-L-B-1 #907101	3 pole female receptacle, solder cups, black metal housing, gold contacts
UMNC3MD-L-B-1 #907102	3 pole male receptacle, solder cups, black metal housing, gold contacts
UMNC4FD-L-B-1 #907284	4 pole female receptacle, solder cups, black metal housing, gold contacts
UMNC4MD-L-B-1 #907293	4 pole male receptacle, solder cups, black metal housing, gold contacts
UMNC5FD-L-B-1 #907285	5 pole female receptacle, solder cups, black metal housing, gold contacts
UMNC5MD-L-B-1 #907294	5 pole male receptacle, solder cups, black metal housing, gold contacts
UMNC6FD-L-B-1 #907287	6 pole female receptacle, solder cups, black metal housing, gold contacts
UMNC6MD-L-B-1 #907295	6 pole male receptacle, solder cups, black metal housing, gold contacts
UMNC7FD-L-B-1 #907289	7 pole female receptacle, solder cups, black metal housing, gold contacts
UMNC7MD-L-B-1 #907296	7 pole male receptacle, solder cups, black metal housing, gold contacts
XLR BLACK/GOLD DLX SERIES	
UMNC3FD-LX-B #907392	3 pole female receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC3MD-LX-B #907393	3 pole male receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC4FD-LX-B #907394	4 pole female receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC4MD-LX-B #907395	4 pole male receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC5FD-LX-B #907396	5 pole female receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC5MD-LX-B #907397	5 pole male receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC6FD-LX-B #907398	6 pole female receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC6MD-LX-B #907399	6 pole male receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC7FD-LX-B #907400	7 pole female receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
UMNC7MD-LX-B #907401	7 pole male receptacle, solder cups, black metal housing, gold contacts, duplex ground contact
XLR NICKEL/SILVER DL SERIES	
UMNC3FD-L-1 #907281	3 pole female receptacle, solder cups, nickel housing, silver contacts
UMNC3MD-L-1 #907292	3 pole male receptacle, solder cups, nickel housing, silver contacts
UMNC4FD-L-1 #907402	4 pole female receptacle, solder cups, nickel housing, silver contacts
UMNC4MD-L-1 #907403	4 pole male receptacle, solder cups, nickel housing, silver contacts
UMNC5FD-L-1 #907286	5 pole female receptacle, solder cups, nickel housing, silver contacts
UMNC5MD-L-1 #907404	5 pole male receptacle, solder cups, nickel housing, silver contacts
UMNC6FD-L-1 #907405	6 pole female receptacle, solder cups, nickel housing, silver contacts
UMNC6MD-L-1 #907406	6 pole male receptacle, solder cups, nickel housing, silver contacts
UMNC7FD-L-1 #907290	7 pole female receptacle, solder cups, nickel housing, silver contacts
UMNC7MD-L-1 #907407	7 pole male receptacle, solder cups, nickel housing, silver contacts

Ordering Information	
Model	Description
ALL Maxxum Modules INCLUDE MIS Black Cap and Mounting Hardware	
XLR NICKEL/SILVER DLX SERIES	
UMNC3FD-LX #907408	3 pole female receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC3MD-LX #907409	3 pole male receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC4FD-LX #907410	4 pole female receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC4MD-LX #907411	4 pole male receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC5FD-LX #907412	5 pole female receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC5MD-LX #907413	5 pole male receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC6FD-LX #907414	6 pole female receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC6MD-LX #907415	6 pole male receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC7FD-LX #907416	7 pole female receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
UMNC7MD-LX #907417	7 pole male receptacle, solder cups, nickel housing, silver contacts, duplex ground contact
Maxxum Modules - Miscellaneous	
UMCP #907068	Blank Cover Plate, black, covers one position
UMB2-M #907242	Banana Jacks (2), adaptor plate
UMB3-M #907243	Banana Jack Triad (3), adaptor plate
UMB1-S #907251	Binding Post Single (1), adaptor plate
UMB2-S #907252	Binding Post Double (2), adaptor plate
UMMD66FF #907268	PS/2 Keyboard Feedthru, female-female, adaptor plate
UMMD66FFR #907544	PS/2 Keyboard Feedthru, semi-recessed, female-female, adaptor plate
UMMTS-L #907271	Miniature Toggle Switch, DPDT, Locking Handle, 3Amps 250VAC, Solder
Maxxum Indicator System (MIS) Color-Code Caps	
MIS-30-Color #907	Replace "color" with; Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White
MIS-60-Color #907	Replace "color" with; Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White
MIS-100-Color #907	Replace "color" with; Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White
MIS-30-MULTI #907545	30 each of 10 colors, 300 caps total
MIS-60-MULTI #907546	60 each of 10 colors, 600 caps total
MIS-100-MULTI #907547	100 each of 10 colors, 1000 caps total
Contact AVP if your required connector is not shown	

AES/EBU Digital Audio to 75Ohm Coax Baluns

Patch AES/EBU signals from XLR output equipment into standard 75 Ohm coax cabling systems to allow digital audio signals to be transmitted with longer runs than can be achieved with Shielded Twisted Pair wiring

Features:

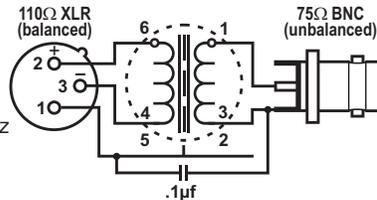
- SMPTE 276M and AES3 Transmission Standards
- Coaxial transmission of 2 Channel Digital Audio
- Allows longer cable runs than 110 Ohm Twisted Pair
- AES/EBU Signal distribution using AVP Universal Bulkhead Panel System
- Lightweight aluminum chassis
- Made in Canada

Applications:

- Broadcast Control Rooms
- Recording Studios
- Post Production Facilities
- Satellite TV Facilities

Specifications:

Maximum Voltage: 5Vp-p
 Max. Power: 250mW
 Frequency Band: 0.1MHz to 6MHz
 Insertion Loss: <0.3dB @ 0.1MHz to 10MHz
 Impedance Match: 110 ohm to 75 Ohm
 VSWR / Return Loss: <1.1/>26.4dB



Ordering Information - Please specify Module Model Name for the AVP Universal Phenolic Panel, or the AVP Universal Metal Panel

For Phenolic Panel	For Metal Panel	Description
UBLN-XFB	UMBLN-XFB	AVP Universal Panel-mount Balun, female XLR 3Pin 110 Ohm, to BNC 75 Ohm, hardware
UBLN-XMB	UMBLN-XMB	AVP Universal Panel-mount Balun, male XLR 3Pin 110 Ohm, to BNC 75 Ohm, hardware
UBLN-BXF	UMBLN-BXF	AVP Universal Panel-mount Balun, BNC 75 Ohm, to female XLR 3Pin 110 Ohm, hardware
UBLN-BXM	UMBLN-BXM	AVP Universal Panel-mount Balun, BNC 75 Ohm, to male XLR 3Pin 110 Ohm, hardware
UBLN-XFB-10	UMBLN-XFB-10	AVP Universal Panel-mount Balun, female XLR 3Pin 110 Ohm, to BNC 75 Ohm, -10dB attenuation, h/w
UBLN-BXF-10	UMBLN-BXF-10	AVP Universal Panel-mount Balun, BNC 75 Ohm, to female XLR 3Pin 110 Ohm, -10dB attenuation, h/w

Inline Balun

BLN-XFB Inline Balun, female XLR 3Pin 110 Ohm, to BNC 75 Ohm
BLN-XMB Inline Balun, male XLR 3Pin 110 Ohm, to BNC 75 Ohm

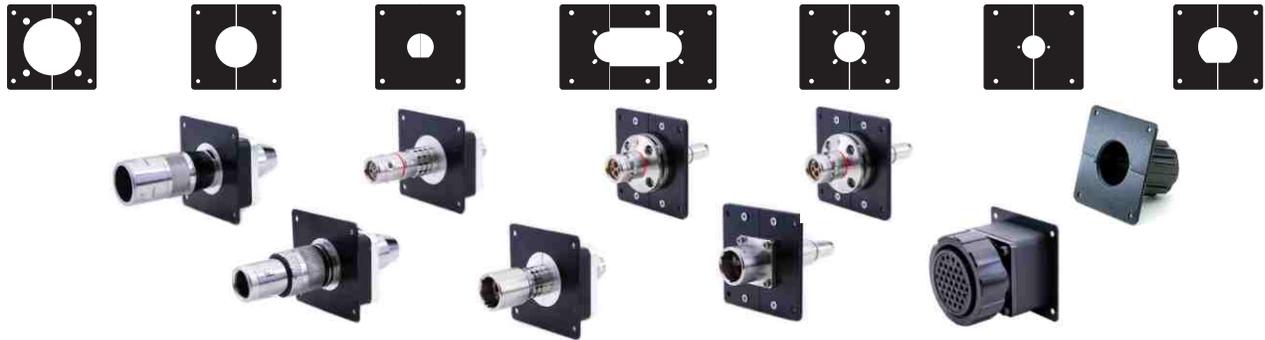
Modular Bulkhead



30° 6 Position Modular Bulkhead

Features:

- 2RU standard 19" NEMA EIA-310 rack spacing
- Available in 6 Position and 8 Position
- All split mounting plates allow post-termination panel mounting
- Adaptor plates available for:
ADC®, Canare®, Kings®, Lemo®, Fischer®, Tajimi®, D&H®, DT-12 & more...



*Adaptor plates shown with connectors for illustration

Standard Modular Bulkhead

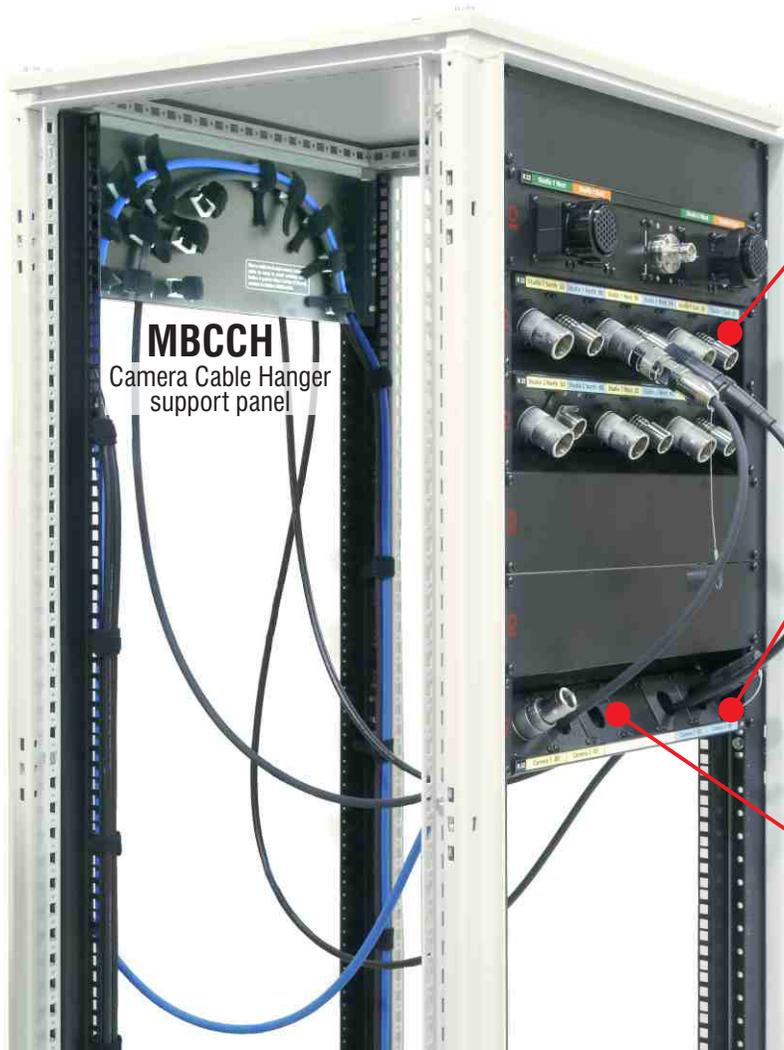


Standard 6 Position Modular Bulkhead

Switchboard Style Patch System

Features:

- 2RU standard 19" NEMA EIA-310 rack spacing
- Available in 6 Position and 8 Position
- Split patchcord retainer mounting plates allow post-termination panel mounting
- Eliminate costly patchcords
- Universal Mounting Plate fits: ADC[®], Canare[®], Kings[®], Lemo[®], Fischer[®], Tajimi[®], D&H[®] & more...



30 Degree Modular Bulkhead panel

- 2RU, 1x6 Position: WK-M3B106E2-Z-BZ
- 2RU, 1x8 Position: WK-M3B8108E2-Z-BZ

Recessed Panel for Switchboard Style Patchcord Retainer System, Modular Bulkhead panel

- 2RU, 1x6 Position: WK-M3B106E2-Z-180-BZ
- 2RU, 1x8 Position: WK-M3B8108E2-Z-180-BZ

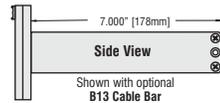
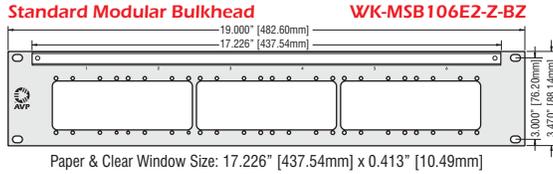


Universal Switchboard Style patchcord retainer mounting plate

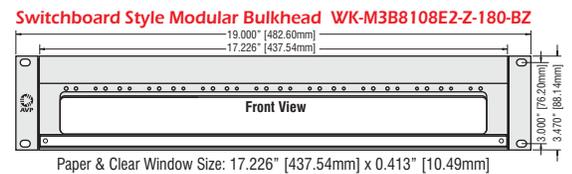
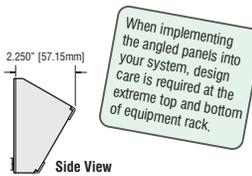
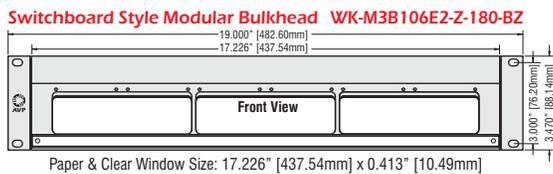
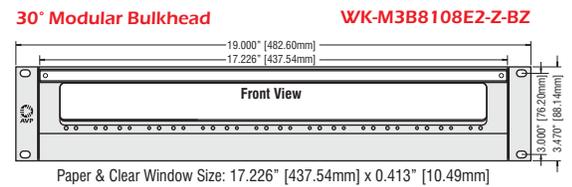
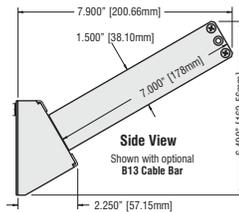
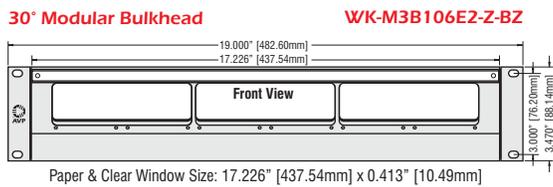
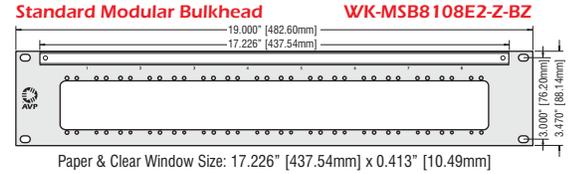
- 2RU, 1x6 Position: M3BSWB-R
- 2RU, 1x8 Position: M3B8SWB-R

*Adaptor plates shown with connectors for illustration

6 Position Panels



8 Position Panels



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

Ordering Information

Ordering Information for 6 & 8 Position, 2RU Modular Bulkhead Panels, Mounting Plates & Accessories

6 Position Panels	8 Position Panels	Description
WK-M3B106E2-Z-BZ	WK-M3B8108E2-Z-BZ	30 degree, 2RU, Modular Bulkhead panel, empty, no cable bar
WK-MSB106E2-Z-BZ	WK-MSB8108E2-Z-BZ	Standard (non angled), 2RU, Modular Bulkhead panel, empty, no cable bar
Add -B13	Add -B13	to model number for optional installed CB-B13 Cable Bar
CB-B13	CB-B13	Cable Bar
WK-M3B106E2-Z-180-BZ	WK-M3B8108E2-Z-180-BZ	Recessed panel for switchboard style patchcord retainer system;
		2RU, Modular Bulkhead panel, empty, no cable bar
MBCCCH	MBCCCH	Camera Cable Hanger support panel for the switchboard style patchcord retainer system
<i>Mounting Plates</i>	<i>Mounting Plates</i>	
MBCP	MB8CP	Cover Plate, blank, covers one unused position, hardware
MBKIN-CSP	MB8KIN-CSP	KINGS Type C TRI-LOC Split Mounting Plate, hardware
MBKIN-FSP	MB8KIN-FSP	KINGS Type F TRI-LOC Split Mounting Plate, hardware
MBDSUB3-1	MB8DSUB3-1	DB25 or HD44 D-Sub Adapter Mounting Plate, single hole, hardware
MBWIR-G2SP	MB8WIR-G2SP	Wireworks G2 Connector Split Mounting Plate, hardware
MBWIR-G3SP	MB8WIR-G3SP	Wireworks G3 Connector Split Mounting Plate, hardware
MBSP-m-c*	MB8SP-m-c*	Split Mounting Plate, for any panel mount connector including;
		LEMO, ADC, KINGS, Canare, Fischer, Tajimi, D&H & more, hardware
MBU2	--	Universal Mounting Plate, holds 2 AVP Universal Modules, hardware
--	MB8U1	Universal Mounting Plate, holds 1 AVP Universal Module, hardware
M3BSWB-R	M3B8SWB-R	Universal Switchboard Style Patchcord Retainer Mounting Plate,
		recessed type for LEMO, ADC, KINGS, Canare, Fischer, Tajimi, D&H & more, hardware
MBHMA-JMB	MB8HMA-JMB	Stratos Lightwave HMA Series, Jam Nut Bulkhead Mounting Plate, hardware
MBCL-m-c*	MB8CL-m-c*	Mounting Plate, adapts any cable mount connector to panel mount including;
		LEMO, ADC, KINGS, Canare, Fischer, Tajimi, D&H & more, hardware
		* -m: manufacturer, -c: connector model number

Hybrid Electrical & Fiber-Optic Connector Break-Out Modules

For use in television broadcasting and video equipment such as camera head to camera control-unit connections. These hybrid Break-Out modules terminate two singlemode fiber-optic contacts, two low-voltage contacts and two auxiliary 600VAC electrical contacts.

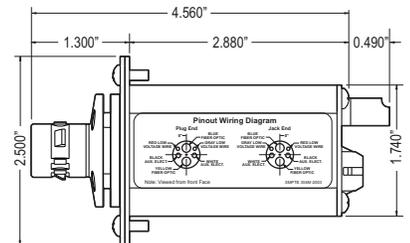
- Conform to SMPTE 304M-2003 Standard
- Feature Lemo® Connectors for Ultimate Reliability
- 6 Position and 8 Position Panel Configurations Available
- Include 60" [1.5m] Electrical Connector Mating Cable*

*Custom lengths available



Modular Bulkhead SMPTE 304M Series Specifications

Optical	
Wavelength:	1100 nm – 1350 nm
Insertion Loss:	0.5 dB maximum
Return Loss:	Better than -45 dB
Electrical	
Auxiliary Elec. Contacts	
Voltage:	600VAC
Current:	10A
Low-Voltage Contacts:	
Voltage:	42VAC or 60VDC
Current:	1A
Environmental	
Temperature, Operating: -20°C to +60°C	
Temperature, Non-operating, storage: -40°C to +85°C	
Humidity: <95% RH (at +40°C)	
RoHS:  Compliant	



Ordering Information, 6 & 8 Position Panel Modules

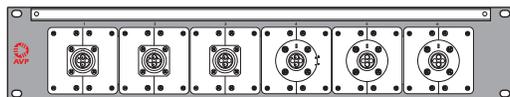
Model	Description
SMPTE 304M-2003 Hybrid Electrical & Fiber-Optic Connector Break-Out Module, includes 60" [1.5m] Connector Mating Cable; for 6 Position panel	
MB6FM-LP-LC	Module, Lemo plug SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (round flange)
MB6FM-LS-LC	Module, Lemo socket SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (square flange)
SMPTE 304M-2003 Hybrid Electrical & Fiber-Optic Connector Break-Out Module, includes 60" [1.5m] Connector Mating Cable; for 8 Position panel	
MB8FM-LP-LC	Module, Lemo plug SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (round flange)
MB8FM-LS-LC	Module, Lemo socket SMPTE 304M Camera Connector to dual singlemode LC Fiber-Optic* and 5 pin electrical contact break-out, (square flange)
AT-MBFM-MCK	Mating Connector Kit, includes electrical mating connector and 5 crimp pins
AT-MBFM-HCT1	Heavy Duty Hand Crimp Tool, for use with AT-MBFM-MCK Mating Connector Kit
AT-MBFM-HCT2	Standard Hand Crimp Tool, for use with AT-MBFM-MCK Mating Connector Kit

*Also available terminated to SC, ST and FC fiber-optic receptacles. Replace -LC in Model Name with -SC, -ST or -FC.

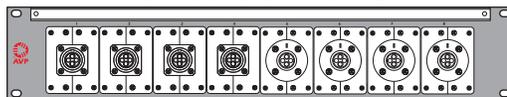
*Add -WZ to end of model name to receive module with only **AT-MBFM-MCK** (electrical mating connector and 5 crimp pins)



6 Position Panel



8 Position Panel



SMPTE 311M Fiber Camera Cable

This composite cable integrates power line for TV camera, control line and optical fiber for video and audio transmission. The cable is standardized by SMPTE as a cable for TV camera.



Quality Built

- Test results supplied with each cable
- Epoxy and Polish Lemo F2 fiber contacts
- Connectors include bend relief & blanking cap (where applicable)

Highest Performance with LEMO F2 Fiber Contact

The advantage of using epoxy and polish contacts is the reliability of the termination and longevity of the connector to assure a quality signal transmission. These contacts are very robust and can withstand wide outdoor temperature variations.



Model Number

ASF - [] - [] - [] - []

Cable End A

FUW	FUW.3K.93C.TLKC96
PUW	PUW.3K.93C.TLKC96
FMW	FMW.3K.93C.TLKC96Z
PBW	PBW.3K.93C.TLKC96Z

Cable End B

FUW	FUW.3K.93C.TLKC96
PUW	PUW.3K.93C.TLKC96
FMW	FMW.3K.93C.TLKC96Z
PBW	PBW.3K.93C.TLKC96Z

Cable Length

xxxM Length in Metres

Cable Type

1L	LEMO CFN. 3K. 93C. 092PNCS
1F	Furukawa TV-OM-AMS



FUW
Straight Cable Plug / Male



FMW
Panel-mount Plug, round flange / Male



PUW
Straight Cable Jack / Female



PBW
Panel-mount Receptacle, square flange / Female

*For requirements not shown, contact AVP

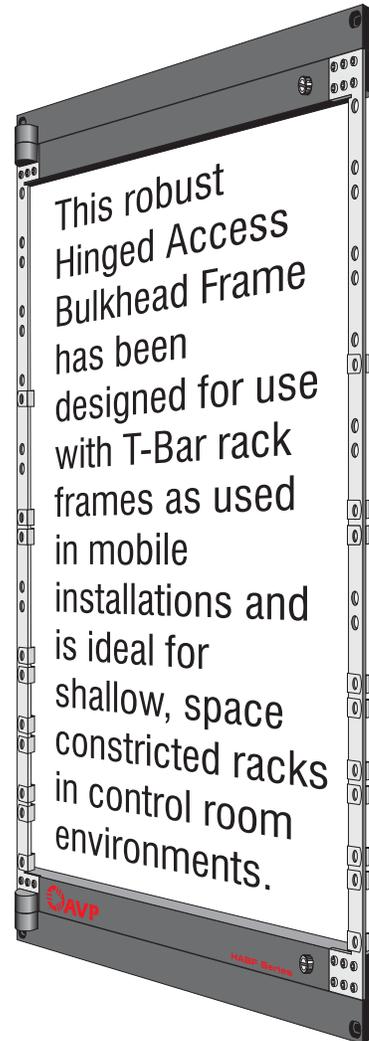
Hinged Access Bulkhead Frame

Features:

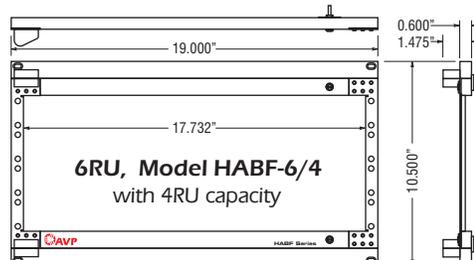
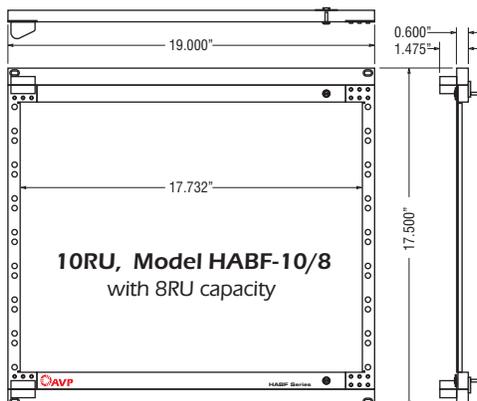
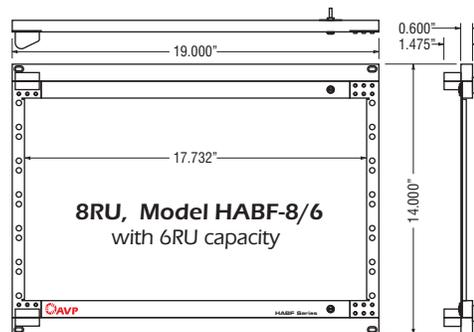
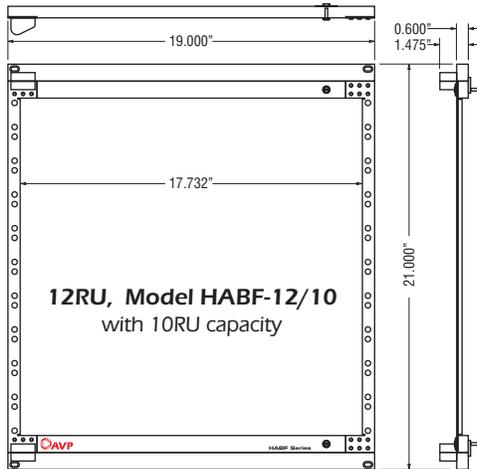
- standard 19" NEMA EIA-310 rack spacing
- 305 stainless steel & black anodized T6061 aluminum for maximum corrosion resistance
- supplied hardware is stainless steel, compression latches & clip nuts are RoHS compliant



- 12RU, Model HABF-12/10, with 10RU capacity
- 10RU, Model HABF-10/8, with 8RU capacity
- 8RU, Model HABF-8/6, with 6RU capacity
- 6RU, Model HABF-6/4, with 4RU capacity



HABF Features



Dimensions

AVP DIN 1.0/2.3 Connector Series

The DIN 1.0/2.3 75 ohm connector series compact design permits dense connector packing and makes them ideal solutions to applications where space limitation is a factor.

DIN 1.0/2.3 connector performance specifications support high data rates for AES Audio, SD video, HD video, 3Gb/s video, and other high density digital broadcast formats. The DIN 1.0/2.3 connector series complies with DIN 41626, DIN 47297, and NFC 93-571 international specifications.

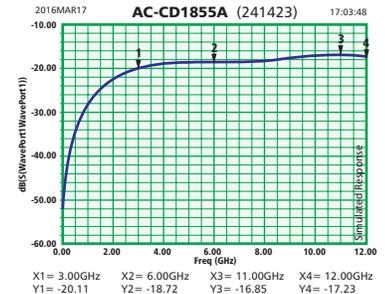
AVP 1.0/2.3 connector series feature push-pull coupling allowing quick installation and ensures positive locking and high retention.

Features & Benefits

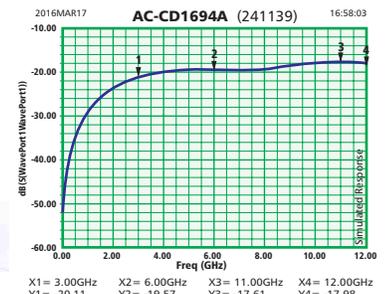
- Push-pull coupling with locking mechanism allows quick installation, will not vibrate loose and will not disconnect during trouble shooting
- 1.0/2.3 connectors are able to be densely packed, saving panel space in components
- Operation up to 12 GHz
- Supports 3Gbps HD SDI SMPTE 424M applications
- Standard crimp tooling can be used
- Center Pin plating: gold 3µin minimum over 80µin minimum nickel plating



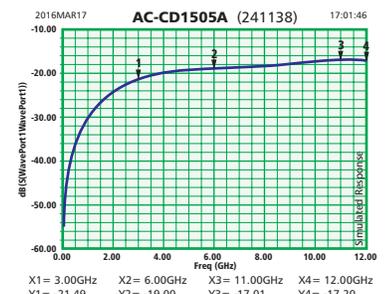
AC-CD1855A



AC-CD1694A



AC-CD1505A



Models and Components

Model	Description	Model	Description
Connectors		Tooling	
AC-CD1855A-001	AVP DIN 1.0/2.3 Connector, terminate Belden 1855A or equivalent, includes center pin and ferrule	AT-DAFM8	Daniels Hand Crimp Tool AFM8, to crimp center pin, all models
AC-CD1855A-100	AVP DIN 1.0/2.3 Connector, 100 pieces, terminate Belden 1855A or equivalent, includes center pins & ferrules	AT-DPAFM8	Daniels Positioner, to set depth and center pin for Daniels AFM8
AC-CD1694A-001	AVP DIN 1.0/2.3 Connector, terminate Belden 1694A or equivalent, includes center pin and ferrule	AT-DHX4	Daniels Hand Crimp Tool HX4, to crimp ferrules, all models
AC-CD1694A-100	AVP DIN 1.0/2.3 Connector, 100 pieces, terminate Belden 1694A or equivalent, includes center pins & ferrules	AT-DY1855A	Hex Crimp Die Set Y2000P, to crimp AC-CD1855A ferrule with Daniels HX4/HX23
AC-CD1505A-001	AVP DIN 1.0/2.3 Connector, terminate Belden 1505A or equivalent, includes center pin and ferrule	AT-DY1694A	Hex Crimp Die Set, to crimp AC-CD1694A ferrule with Daniels HX4/HX23
AC-CD1505A-100	AVP DIN 1.0/2.3 Connector, 100 pieces, terminate Belden 1505A or equivalent, includes center pins & ferrules	AT-DY1505A	Hex Crimp Die Set Y2070, to crimp AC-CD1505A ferrule with Daniels HX4/HX23
		AT-P8004	Paladin Hand Crimp Tool 8004
		AT-P2648	Paladin Die Set 2648, use to crimp AC-CD1855A and AC-CD1505A
		AT-P2657	Paladin Die Set 2657, use to crimp AC-CD1694A DIN 1.0/2.3 connectors
		AT-CJG	Optional Centering Jig, used to locate the center pin in connector

Audio & Video Jack Dust Plugs

AVP Dust Plugs have been designed to serve the broadcast industry. Composed of a UV stabilized high density polyethylene (HDPE) for long life and durability.

- Longframe audio jacks, 1/4" B-Guage (BP0316), 1/4" Phone
- Bantam audio jacks, TT (Tiny Telephone)
- Standard Size video jacks
- Midsize video jacks
- Microsize video jacks



Audio



Longframe for jack inside diameter, 0.250" [6.35mm]

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



Bantam for jack inside diameter, 0.175" [4.45mm]

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

Video



Standard Size for jack inside diameter, 0.375" [9.52mm]

DC-CBK10 Dust Plug, fits standard size video jack, black, package of 10 plugs

DC-CBK50 Dust Plug, fits standard size video jack, black, package of 50 plugs



Midsize for jack inside diameter, 0.304" [7.72mm]

DC-DBK10 Dust Plug, fits midsize video jack, black, package of 10 plugs

DC-DBK65 Dust Plug, fits midsize video jack, black, package of 65 plugs



Microsize for jack inside diameter, 0.180" [4.57mm]

DC-KBK10 Dust Plug, fits microsize video jack, black, package of 10 plugs

DC-KBK100 Dust Plug, fits microsize video jack, black, package of 100 plugs

Video Patchcords

Model Number
PC - [] - []

Patchcord Type
KM Microsize
M Midsize
V Standard Size

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
BLACK []
RED []
GREEN []
BLUE []
YELLOW []
PURPLE []
ORANGE []
WHITE []

example... MPC-2-RED



Video Patchcords

BNC Patchcords

Model Number
BNPC - [] - [] - []

Patchcord Length
 2 2' [600mm]
 3 3' [900mm]
 5 5' [1.52m]
 10 10' [3.05m]
 25 25' [7.62m]
 50 50' [15.24m]
 100 100' [30.48m]

Color
BLACK []
RED []
GREEN []
BLUE []
YELLOW []
PURPLE []
ORANGE []
WHITE []

Opposite End Termination
BN BNC termination
KM Microsize plug termination
M Midsize plug termination
V Standard Size plug termination



BNC Patchcords

Audio Patchcords

Model Number
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
BLACK []
RED []
GREEN []
BLUE []
YELLOW []
PURPLE []
ORANGE []
WHITE []

For 110 Ohm AES/EBU Digital and Analog Audio Application

example... BPC-2-GREEN



Audio Patchcords

Stereo Bantam Patchcords Polarized Datacords

Model Number
[] - [] - RED

Patchcord Type
SBPC Stereo Bantam
DATPC Polarized Datapatch

Patchcord Length
 2 2' [300mm]
 3 3' [450mm]

Stereo Bantam

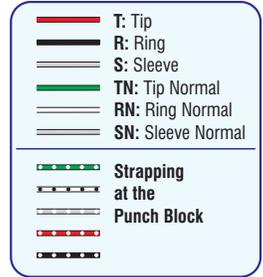
AVP Datacord
...see page 32 & 42



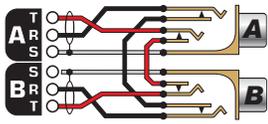
Stereo Bantam Patchcords

Datapatch Polarized Datacords

Normaling Descriptions

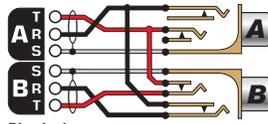


FN Full Normals



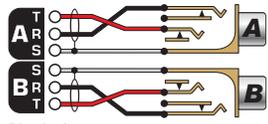
Physical:
A: T, R, S, wired out to rear termination connector. TN, RN are strapped at the jacks to B: TN, RN respectively.
B: T, R, S, wired out to rear termination connector. TN, RN are strapped at the jacks to A: TN, RN respectively.
Function: Signal from A is automatically looped to B. If a patchcord is inserted in A or B, the automatic looping is broken.
Features and Benefits:
 Automatic Looping.

HN Half Normals



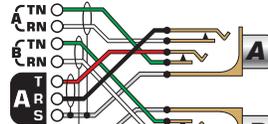
Physical:
A: T, R, S, wired out to rear termination connector. T, R are strapped at the jacks to B: TN, RN respectively.
B: T, R, S, wired out to rear termination connector. TN, RN are strapped at the jacks to A: T, R respectively.
Function: Signal from A is automatically looped to B. If a patchcord is inserted in A, the signal is still looped to B. However, if a patchcord is inserted in B, the automatic looping is broken.
Features and Benefits: Automatic Looping, Signal Monitoring when A is patched.

NN No Normals



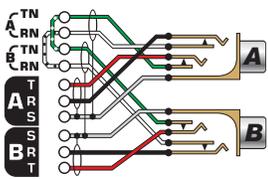
Physical:
A: T, R, S, wired out to rear termination connector.
B: T, R, S, wired out to rear termination connector.
Function: A circuits are completely independent from B circuits. U-Links or patchcords must be used.
Features and Benefits:
 Simple patching.

NT Normals Out



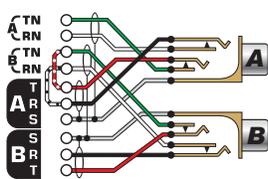
Physical:
A: T, R, S, TN, RN wired out to rear termination connector.
B: T, R, S, TN, RN wired out to rear termination connector.
Function: No Normals, reconfigurable.
Benefits:
 1. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.

FR Full Normals Strapped at Punch Block



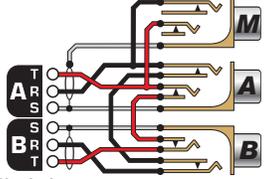
Physical:
A: T, R, S, TN, RN wired out to rear termination connector.
B: T, R, S, TN, RN wired out to rear termination connector.
Punch Block: Full Normals
Function: Full Normals, reconfigurable.
Benefits:
 1. Saves time at installation.
 2. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.

HR Half Normals Strapped at Punch Block



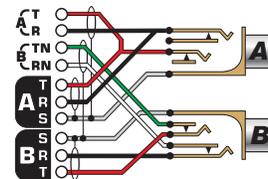
Physical:
A: T, R, S, TN, RN wired out to rear termination connector
B: T, R, S, TN, RN wired out to rear termination connector
Punch Block: Half Normals
Function: Half Normals, reconfigurable
Benefits:
 1. Saves time at installation.
 2. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.

FM Full Normals with Monitor



Physical:
A: T, R, S, wired out to rear termination connector. TN, RN are strapped to B: TN, RN respectively. In addition T, R are strapped to M: T, R respectively
B: T, R, S, wired out to rear termination connector. TN, RN are strapped to A: TN, RN respectively.
M: T, R are strapped to A: T, R respectively
Function: Full Normals (A and B). M monitoring of A.
Features and Benefits: Automatic Looping from A to B. Monitoring of A is always available in M.

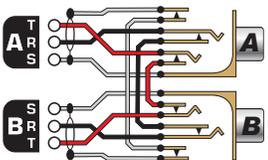
HT Half Normals Out Connectorized 90 Pin Only



Physical:
A: T, R, S, wired out to rear 90 pin connector. T, R also wired out to rear 120 pin connector.
B: T, R, S, wired out to rear 90 pin connector. TN, RN wired out to rear 120 pin connector.
Function: No Normals, reconfigurable.
Benefits:
 1. Flexibility: Half Normals or No Normals can be configured, per circuit, at the rear 120 pin connector.

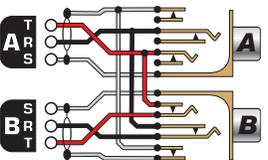
Sleeve Normals

FNS Sleeve Normals Strapped at Jacks



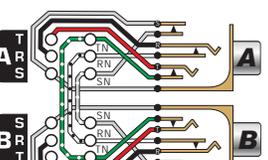
Physical:
A: T, R, S, wired out to rear termination connector. TN, RN, SN are strapped at the jacks to B: TN, RN, SN respectively.
B: T, R, S, wired out to rear termination connector. TN, RN, SN are strapped at the jacks to A: TN, RN, SN respectively.
Function: Signal from A, (including Sleeve) is automatically looped to B. If a patchcord is inserted in A or B, the automatic looping is broken.
Features and Benefits:
 1. Automatic Looping of Tip, Ring & Sleeve.
 2. Switching Grounds.

HNS Sleeve Half Normals Strapped at Jacks



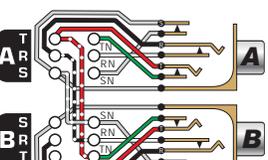
Physical:
A: T, R, S, wired out to rear termination connector. T, R, S are strapped at the jacks to B: TN, RN, SN respectively.
B: T, R, S, wired out to rear termination connector. TN, RN, SN are strapped at the jacks to A: T, R, S respectively.
Function: Signal from A, (including Sleeve) is automatically looped to B. If a patchcord is inserted in A, the signal is still looped to B. However, if a patchcord is inserted in B, the automatic looping is broken.
Features and Benefits:
 1. Automatic Looping of Tip, Ring & Sleeve.
 2. Switching Grounds.

FRS Sleeve Normals Out Strapped at Punch Block



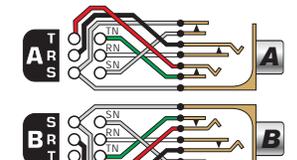
Physical:
A: T, R, S, TN, RN, SN wired out to rear termination connector.
B: T, R, S, TN, RN, SN wired out to rear termination connector.
Punch Block: Full Normals
Function: Full Normals, reconfigurable.
Benefits:
 1. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.
 2. Switching Grounds.

HRS Sleeve Half Normals Strapped at Punch Block



Physical:
A: T, R, S, TN, RN, SN wired out to rear termination connector.
B: T, R, S, TN, RN, SN wired out to rear termination connector.
Punch Block: Half Normals
Function: Half Normals, reconfigurable.
Benefits:
 1. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.
 2. Switching Grounds.

NTS Sleeve Normals Out



Physical:
A: T, R, S, TN, RN, SN wired out to rear termination connector.
B: T, R, S, TN, RN, SN wired out to rear termination connector.
Function: No Normals, reconfigurable.
Benefits:
 1. Flexibility: Full or Half Normals can be strapped, per circuit, at the rear termination connector.
 2. Switching Grounds.

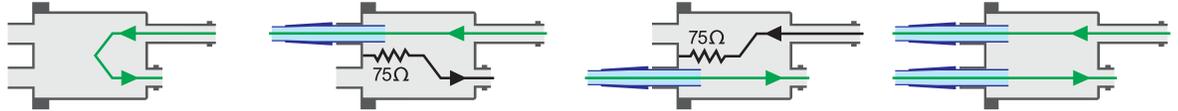
Video Jack Normaling

Super^{HD+} Series

Fullsize, Midsize & Micro 3.0GHz - 3Gb/s Dual Jacks & Single Jacks

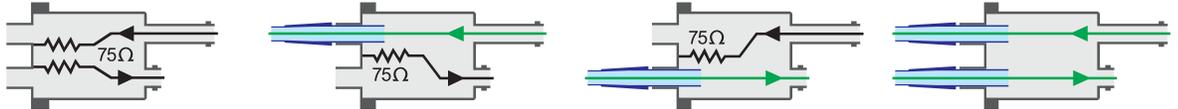
AVP-ASN7511
AVP-AMN75
AVP-KMN75

Normaled, Terminating



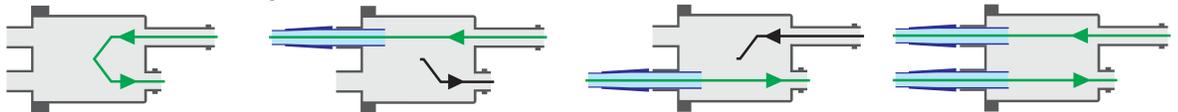
AVP-AS7511
AVP-AM75
AVP-KM75

Non-Normaled, Terminating



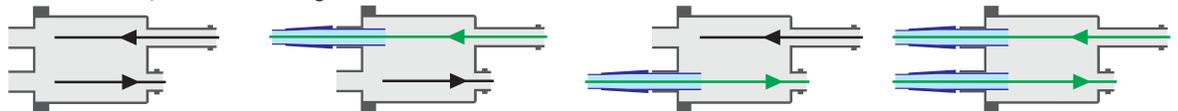
AVP-ASN11
AVP-AMN
AVP-KMN

Normaled, Non-Terminating



AVP-AS11
AVP-AM
AVP-KM

Non-Normaled, Non-Terminating



AVP-AMSL75
AVP-AMSS75

Terminating, long



Terminating, short



AVP-AMSL
AVP-AMSS

Non-Terminating, long



Non-Terminating, short



Legend

- AS:** 3.0 GHz Standard Size
- AM:** 3.0 GHz Midsize
- KM:** 3.0 GHz Micro Size
- N:** Normaled
- 75:** 75 ohm Terminated
- R:** Rear Mount
-  Video Patch Cord

Corporate Info

Line of Business

AVP MFG & Supply Inc., founded in 1985, is a manufacturer of commercial broadcast, telecom, and satellite equipment, including the design and manufacturing of audio, video, and digital jackfields, connectors, wire and cable assemblies. AVP sells through world-wide distribution, and also partners directly with clients, designing and manufacturing custom jackfield and panel solutions for its broadcast, telecom, and satellite customers and OEM relationships.

The AVP Team

The AVP Team consists of personnel who are focused on quality customer relations and service, advanced design engineering, and manufacturing excellence.

Major Products

Patented Mosaic Product line with Circuit Identification System (CIS)

Patented Rapid Punch (RPT) Jackfields and Wall Blocks

Patented Award-winning Morph System Audio Jackfields

SuperHD+ Ultimate Serial Digital Video Jackfields

RS422/Datapatch Jackfields

EDAC Connectorized Jackfields

Patchcords and Cable Assemblies

Custom Telecom and Satellite Panels

Marketplace

AVP sells world-wide, through distribution, systems groups, and OEM channels, to commercial broadcast, telecom, and satellite end-users. AVP is currently represented in the Americas, Europe, Israel, Africa, India, China, SE Asia, and Australia.

Summary

AVP Mfg. & Supply Inc. designs and manufactures premium quality, innovative product for its targeted market sectors. Exemplary product, short turn-around time, competitive pricing, and high-quality customer support has produced extraordinary product-line acceptance and customer loyalty.

Patents

US Patent: 5,730,618; Rapid Punch Terminal (RPT) System

US Patent: 6,540,562; Morph Module Audio System

US Patent: 6,280,238; Full-Face Jackfield Designation Plate

Main Office

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Rick.Fruitman@jackfields.com

Customer Support

Amanda Chamberlain

Customer Support

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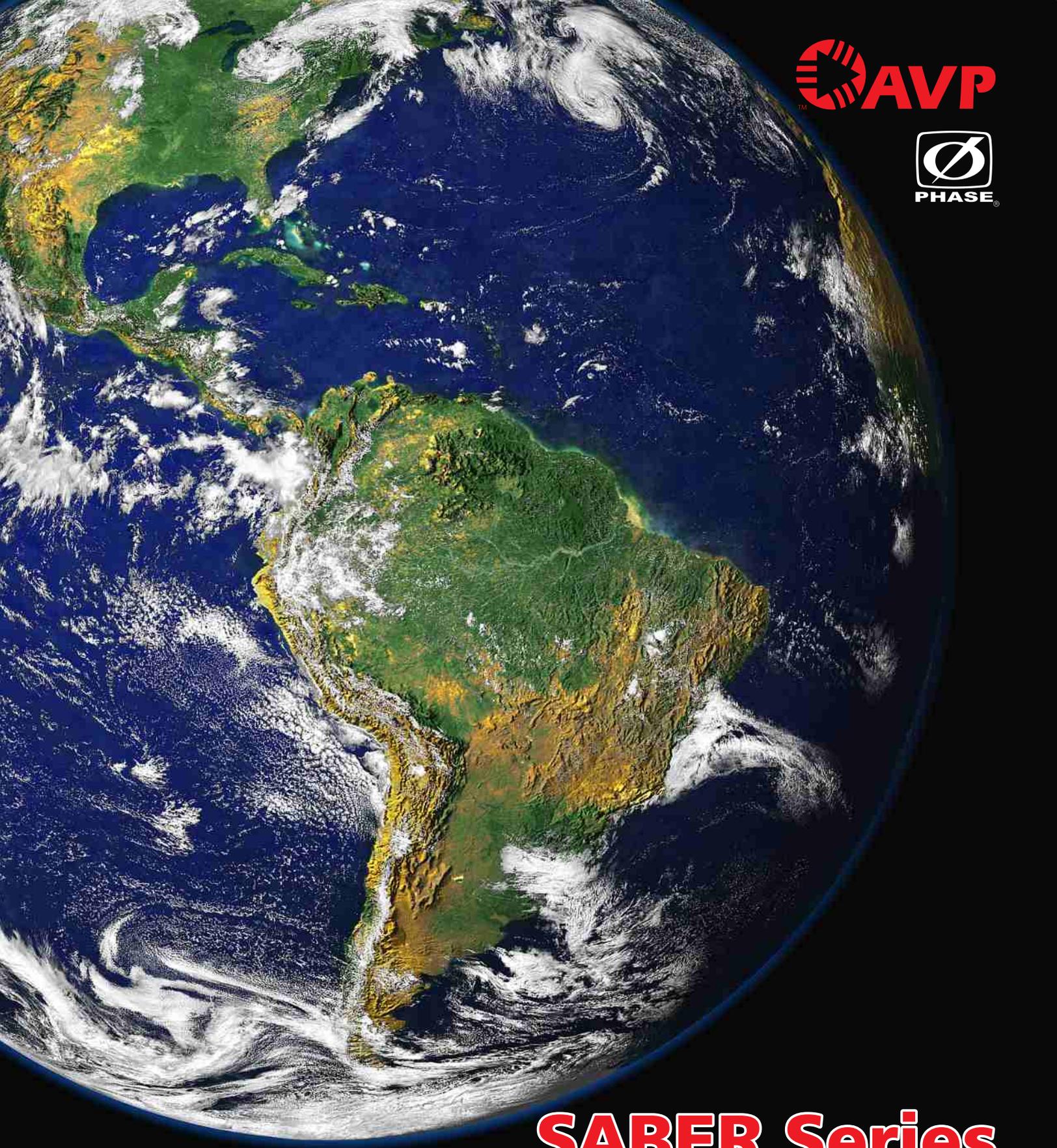
Toll Free (NA): 800.481.2493 x240

Amanda.Chamberlain@jackfields.com

International Distributors

[USA](#) [Canada](#) [Europe](#) [Latin America](#)

[China/HK/Taiwan](#) [Other International](#)



SABER Series Media Converters



3G SABER Media Converter

Partners in Broadcast, Telecom & Satellite Solutions

Small Form-Factor Pluggable (SFP)



(SFP modules sold separately)

The new AVP Active product family combines the requirements of Media, Broadcast & Outdoor Broadcast/Truck applications in a compact and solid platform.

It performs to the highest industry specifications utilizing the latest advanced Small Form-Factor Pluggable (SFP) technology. The SABER features 2 independent SFP paths and incorporates internal power (locking) for reliance and dependability. This simple 2 path design allows for integration into virtually any facility or platform, from Media to Broadcast to Outdoor Broadcast/Truck based designs.

Features:

- Utilizes latest SFP (Small Form Pluggable) Technology
- Full support up to, and including 3G signals
- Embedded audio support (depending upon SFP installed)
- Up to 4 Totally INDEPENDENT signal Paths
- Locking Power Supply for confidence
- Made in North America
- Rack Mountable (January 2013)



Applications Include:

- Broadcast Facilities
- Outdoor Broadcast Applications
- Camera Applications
- Remote Applications

Types of Signal Processing offered on the SABER Platform

	Page
HDMI to Fiber (1310)	5
HDMI to Copper (1694/1855)	5
DVI to Fiber	5
DVI to Copper (1694/1855)	5
Optical to Electrical (O/E up to 3G per path)	6
Electrical to Optical (O/E up to 3G per path)	6
Digital to Analog SDi Decoding over Fiber (1310)	7
Digital to Analog SDi Decoding over Copper (1694/1855)	7
Analog SDi to Digital Encoding over Fiber (1310)	8
Analog SDi to Digital Encoding over Copper (1694/1855)	8
OR any combination of the above processing	

Note: HDMI & DVI SFPs are SINGLE signal path. All other SFPs are DUAL paths.

System

Density: SABER holds up to 4 independent SFP modules

Impedance: 75W

Connectors Supported: DIN 1.0/2.3, HDBNC, LC Optical & HDMI/DVI

Physical

Dimensions: 6.000"W x 2.250"D x 0.940"H

SFP Module Capacity: Up to 4 AVP SFP modules including Dual TX and Dual RX

Status Indicator OK: Green LED

Electrical

Power Supply Configuration: Single External Supply

Voltage: DC Input 9-32VDC

Max Power Dissipation: 12 Watts (fully loaded)

Note: Power consumption dependent on SFP type

External Power Supply Brick

AC Mains Input: Auto Ranging, 90-264VAC, 50/60Hz

Number of outputs: 1

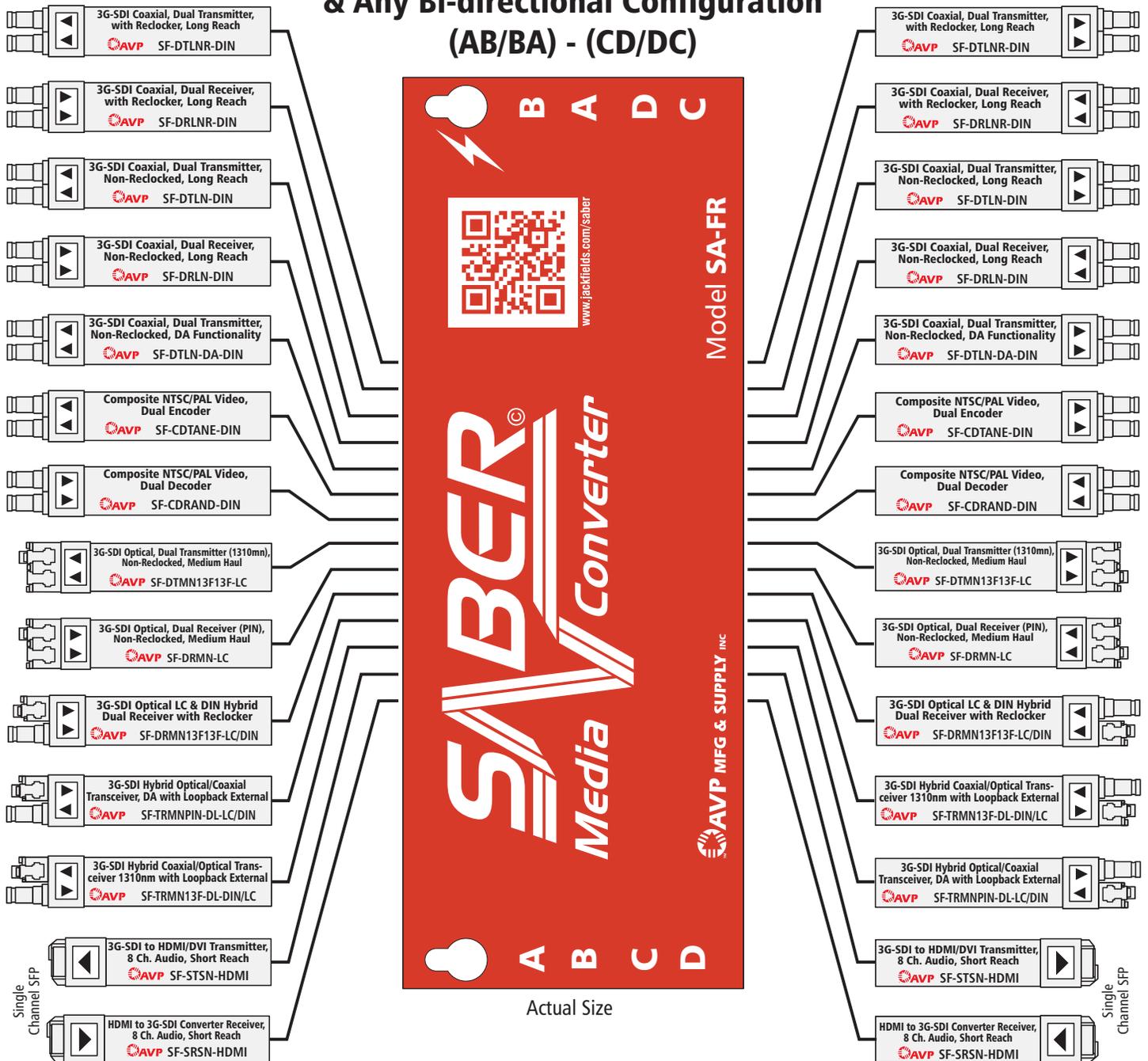
Output Voltage: 24VDC@0.75A

Warranty

Warranty: One year, date of shipment from AVP

SABER Offers Total Signal Processing

Flexibility from
Left to Right & Right to Left
& Any Bi-directional Configuration
(AB/BA) - (CD/DC)



(SFP modules sold separately)





SDI SFP COAXIAL DUAL TRANSMITTER WITH RECLOCKER, NON-MSA, DIN 1.0/2.3
The SF-DTLNR Series is an electrical SFP Dual Transmitter with Reclocker module designed to transmit two reclocked SDI signals up to 2.97Gbps over 75Ω coaxial cables via Din 1.0/2.3 connectors. Cable Driver slew rates is automatically configured in order to achieve compliance to SMPTE 424M/SMPTE 292M and SMPTE 259M. By suppressing accumulated jitter, each reclocker procures optimal output jitter performance.



SDI SFP COAXIAL DUAL TRANSMITTER, NON-RECLOCKED, NON-MSA, DIN 1.0/2.3
The SF-DTLN Series is an electrical SFP Dual Transmitter module designed to transmit two SDI signals up to 2.97Gbps over 75Ω coaxial cables via Din 1.0/2.3 connectors. Cable Driver slew rates is automatically configured in order to achieve compliance to SMPTE 424M/SMPTE 292M and SMPTE 259M.



SDI SFP COAXIAL DUAL RECEIVER WITH RECLOCKER, NON-MSA, DIN 1.0/2.3
The SF-DRLNR Series is an electrical SFP Dual Receiver with Reclocker module designed to receive two SDI signals up to 2.97Gbps over 75Ω coaxial cables via Din 1.0/2.3 connectors. Equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns. By suppressing accumulated jitter, each Reclocker procures predictable cable length on every system.



SDI SFP COAXIAL DUAL RECEIVER, NON-RECLOCKED, NON-MSA, DIN 1.0/2.3
The SF-DRLN Series is an electrical SFP Dual Receiver module designed to receive two SDI signals up to 2.97Gbps over 75Ω coaxial cables via Din 1.0/2.3 connectors. Equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns.



COMPOSITE NTSC/PAL VIDEO SFP DUAL ENCODER, NON-MSA, DIN 1.0/2.3
The (NTSC PAL codec SFP) SF-CDTANE-DIN is an electrical SFP dual transmitter module designed to encode two video composite (CVBS) over 75Ω coaxial cables via DIN connectors. The module encodes the SD-SDI signal to NTSC or PAL composite output.



3G-SDI SFP HYBRID OPTICAL/COAXIAL TRANSCEIVER, MEDIUM HAUL, (PIN), NON-MSA, DA WITH LOOPBACK EXTERNAL, LC/DIN 1.0/2.3 CONNECTORS
The SF-TRMNPIN-DL-Series is a hybrid SFP distribution amplifier module designed to receive SDI signals up to 2.97Gbps on fiber over single mode fiber (9um/125um) and to transmit a copy over 75Ω coaxial cables via a Din 1.0/2.3 connector. The SF-TRMNPIN-DL-Series contains a PIN photodiode receiver with -21dBm of sensitivity.



ASI/SD/HD/3G-SDI SFP DUAL OPTICAL TRANSMITTER, MEDIUM HAUL, NON-MSA
The SF-DTMN13F13F-LC is an optical SFP dual transmitter 1310nm module designed to transmit two SDI signals up to 2.97Gbps over single mode fiber (9um/125um). The module is carefully designed to accept pathological test patterns. The SF-DTMN13F13F-LC contains two 1310nm Fabry-Perot laser transmitters with optical output power of -1dBm +/- 1dBm.



ASI/SD/HD/3G-SDI SFP DUAL OPTICAL DUAL RECEIVER, MEDIUM HAUL, NON-MSA
The SF-DRMN-LC is an optical SFP dual receiver module designed to receive two SDI signals up to 2.97Gbps over single mode fiber (9um/125um). The module is carefully designed to accept pathological test patterns. The SF-DRMN-LC contains two PIN photodiode receiver with -22dBm of sensitivity with pathological signal.



3G-SDI TO HDMI/DVI TRANSMITTER WITH 8 CHANNEL AUDIO, SHORT REACH, NON-MSA, HDMI TYPE D, with RETENTION CLIP
The SF-STSN-HDMI is an electrical SFP transmitter module designed to convert SDI signals to an HDMI/DVI output (High definition multimedia interface® / Digital Visual Interface) without scaling artifacts. A copy of the reclocked SD/HD/3G-SDI source is loopback to the host. Up to 8 channel of audio is supported and embedded in the HDMI signal.



HDMI to 3G-SDI CONVERTER RECEIVER WITH 8 CHANNEL AUDIO, SHORT REACH, NON-MSA, HDMI TYPE D, with RETENTION CLIP
The SF-SRSN-HDMI is an electrical SFP receiver module designed to convert HDMI to an SDI signal output without scaling artifacts. The SF-SRSN-HDMI can support HDCP by programming a key into it. Up to 8 channel of PCM audio is supported.



COMPOSITE NTSC/PAL VIDEO SFP DUAL DECODER, NON-MSA, DIN 1.0/2.3
The (NTSC PAL codec SFP) SF-CDRAND-DIN is an electrical SFP dual receiver module designed to decode two video composite (CVBS) over 75Ω coaxial cables via DIN connectors. The module decodes NTSC or PAL composite inputs and convert to SD-SDI signal.



3G-SDI SFP HYBRID COAXIAL/OPTICAL TRANSCEIVER, MEDIUM HAUL, 1310NM, NON-MSA, DA WITH LOOPBACK EXTERNAL, DIN 1.0/2.3/LC CONNECTORS
The SF-TRMN13F-DL Series is a hybrid SFP distribution amplifier module designed to receive SDI signals up to 2.97Gbps over 75Ω coaxial cables via Din 1.0/2.3 connectors, transmit a copy on fiber over single mode fiber (9um/125um). The equalizer features DC restoration to compensate for the DC content of SMPTE pathological test patterns. The SF-TRMN13F-DL Series also contains a 1310nm Fabry-Perot laser transmitter with optical output power of -2dBm.

SABER Series, advanced Small Form-Factor Pluggable (SFP) technology components



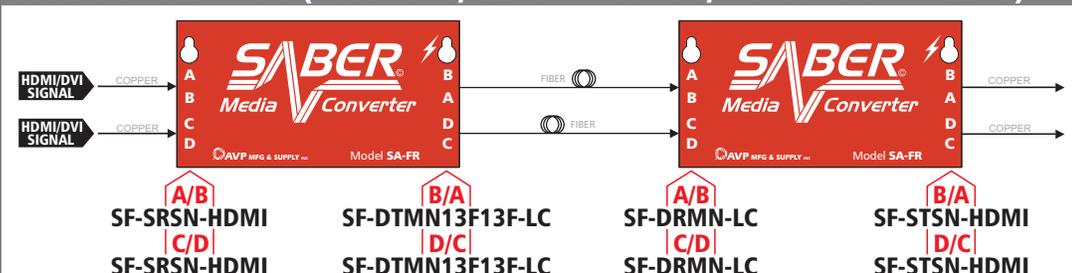
Signal Type	Model	Description
	SA-FR	SABER Series Enclosure, anodized, with 4 SFP Internal Cages, Power Status LED, Power Supply required, use SA-PS-NA or SA-PS-EU; (SFP modules sold separately)
	SA-PS-NA	Power Supply Unit, North American Adaptor Type for SABER Series
	SA-PS-EU	Power Supply Unit, with European & Global Power Supply Adaptors for SABER Series
	SA-MF18E2-Z	2RU, Multi-Frame Rackmount Enclosure, empty, holds up to 18 SABER Modules, includes one External Single Power Supply, MF-RPS-xx*
	SA-MFK	SABER Kit, Power Status LED, includes mounting plates, for use with 2RU Multi-Frame SA-MF18E2-Z; (SFP modules sold separately)
	MF-RPS-xx*	Redundant External Power Supply for use with SA-MF18E2-Z
		*Add: -NA (North America), -EU (Europe), -UK (United Kingdom), -JP (Japan), -AU (Australia) or -CN (China), to end of power supply Model Number for your respective region IEC320 C14 Grounded Power Cord.
	SA-FC	SABER Field Case, watertight, air tight, crushproof, chemical resistant, holds up to 8 SABERS, assorted SFPs, Conversion Cables. Customer specific
HDMI	SF-STSN-HDMI	HDMI/DVI SFP Transmitter with 8CH audio, Short Reach, Non-MSA, HDMI type D Connectors
	SF-SRSN-HDMI	HDMI SFP Receiver with 8CH audio, Short Reach, Non-MSA, HDMI type D Connectors
Coaxial*	SF-DTLNR-DIN	3G-SDI SFP Coaxial, Dual Transmitter with Reclocker, Long reach, Non-MSA, DIN 1.0/2.3 Connectors
	SF-DRLNR-DIN	3G-SDI SFP Coaxial, Dual Receiver with Reclocker, Long reach, Non-MSA, DIN 1.0/2.3 Connectors
	SF-DTLN-DIN	3G-SDI SFP Coaxial, Dual Transmitter, Long reach, Non-Reclocked, Non-MSA, DIN 1.0/2.3 Connectors
	SF-DRLN-DIN	3G-SDI SFP Coaxial, Dual Receiver, Long reach, Non-Reclocked, Non-MSA, DIN 1.0/2.3 Connectors
Transceiver & DA*	SF-TRLNR-DIN	3G-SDI SFP Coaxial, Transceiver, with Reclocker, Long Reach, Non-MSA, DIN 1.0/2.3 Connectors
	SF-TRLN-DIN	3G-SDI SFP Coaxial, Transceiver, Long Reach, Non-MSA, Non-Reclocked, DIN 1.0/2.3 Connectors
	SF-DTLN-DA-DIN	3G-SDI SFP Coaxial, Dual Transmitter, Non-Reclocked. DA functionality. Non-MSA, DIN 1.0/2.3 Connectors
	SF-TRMNPIN-DL-LC/DIN	3G-SDI SFP Hybrid Optical/Coaxial Transceiver, Medium Haul, (PIN), Non-MSA, DA with Loopback External, LC/DIN 1.0/2.3
Analog*	SF-TRMN13F-DL-DIN/LC	3G-SDI SFP Hybrid Coaxial/Optical Transceiver, Medium Haul, 1310nm, Non-MSA, DA with Loopback External, DIN 1.0/2.3/LC Connectors
	SF-CDTANE-DIN	Composite NTSC/PAL Video SFP Dual Encoder Non-MSA, DIN 1.0/2.3 Connectors
	SF-CDRAND-DIN	Composite NTSC/PAL Video SFP Dual Decoder, Non-MSA, DIN 1.0/2.3 Connectors
Fiber	SF-DTMN13F13F-LC	3G-SDI SFP Optical, Dual Transmitter (1310nm), Non-Reclocked, Medium Haul, Non-MSA, LC Connectors
	SF-DRMN-LC	3G-SDI SFP Optical, Dual Receiver (PIN), Non-Reclocked, Medium Haul, Non-MSA, LC Connectors
Accessories	HMDPC-2M-BLACK-HMA	Cable, HDMI type D Plug to HDMI type A Plug, black, 2meters
	HMDPC-4M-BLACK-HMA	Cable, HDMI type D Plug to HDMI type A Plug, black, 4meters
	HMDPC-6M-BLACK-HMA	Cable, HDMI type D Plug to HDMI type A Plug, black, 6meters
	HMDPC-2M-BLACK-DV	Cable, HDMI type D Plug to DVI Plug, black, 2meters, for DVI Processing
	HMDPC-4M-BLACK-DV	Cable, HDMI type D Plug to DVI Plug, black, 4meters, for DVI Processing
	D12PC-1-BLACK-BN	Cable, DIN 1.0/2.3/LC Plug (M) to BNC Jack (F), 1 foot, black, Belden 1855A
	D12PC-2-BLACK-BN	Cable, DIN 1.0/2.3/LC Plug (M) to BNC Jack (F), 2 feet, black, Belden 1855A

*HDBNC interface available

HDMI/DVI to Optical or Electrical Conversion

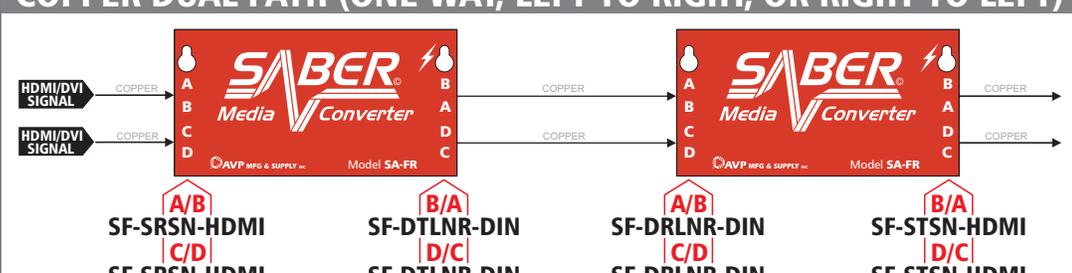
These packaged configurations for SABER will allow for the processing of up to 2 HDMI/DVI signals, one way or bi-directional, over copper and/or fiber depending on your specific needs. SABER allows for total flexibility in signal processing. SABER fully supports signals up to and including 3G (SMPTE 424M). Specific HDMI/DVI cables are needed for individual applications.

FIBER DUAL PATH (ONE WAY, LEFT TO RIGHT, OR RIGHT TO LEFT) | SK-M2O



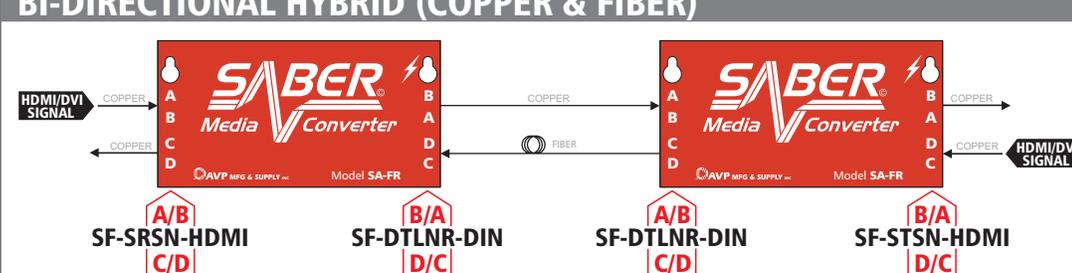
Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-SRSN-HDMI x2
 SF-STSN-HDMI x2
 SF-DTMN-13F13F-LC x2
 SF-DRMN-LC x2
 HMDPC-4M-BLACK-HMA x4

COPPER DUAL PATH (ONE WAY, LEFT TO RIGHT, OR RIGHT TO LEFT) | SK-M2E-D



Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-SRSN-HDMI x2
 SF-STSN-HDMI x2
 SF-DTLNR-DIN x2
 SF-DRLNR-DIN x2
 HMDPC-4M-BLACK-HMA x4

BI-DIRECTIONAL HYBRID (COPPER & FIBER) | SK-M2E-M2O-D



Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-SRSN-HDMI x2
 SF-STSN-HDMI x2
 SF-DTLNR-DIN x1
 SF-DRLNR-DIN x1
 SF-DTMN-13F13F-LC x1
 SF-DRMN-LC x1
 HMDPC-4M-BLACK-HMA x4

Ordering Information

Kit Type	Model	DIN1.0/2.3 Connectors	Description
HDMI	SK-M2O		SABER Kit, HDMI to Optical (Fiber) Conversion
HDMI		SK-M2E-D	SABER Kit, HDMI to Electrical (Copper) Conversion
HDMI		SK-M2E-M2O-D	SABER Kit, HDMI Bi-Directional Hybrid (Copper & Fiber) Conversion
DVI	SK-V2O		SABER Kit, DVI to Optical (Fiber) Conversion
DVI		SK-V2E-D	SABER Kit, DVI to Electrical (Copper) Conversion
DVI		SK-V2E-M2O-D	SABER Kit, DVI Bi-Directional Hybrid (Copper & Fiber) Conversion

Add -EU to end of Kit Model Number to receive Power Supply Unit, with European & Global PS Adaptors for SABER Series



***Supported HDMI Resolutions:**

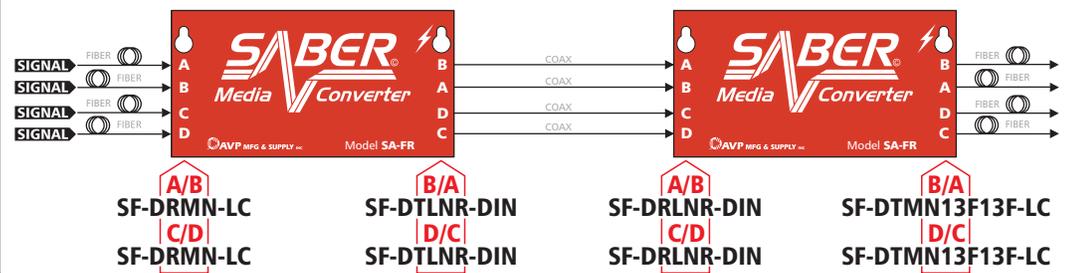
- SMPTE 424M 1080p
1920 x 1080p
- SMPTE 292M 720p
1280 x 720p
- SMPTE 292M 1080i
1920 x 1080i 30
- SMPTE 259M 525i
720 x 486
- SMPTE 259M 625i
720 x 576

*HDBNC interface available

Optical/Electrical up to 3G Conversion

These packaged configurations for SABER will allow for the processing of up to 4 Fiber Signals (single mode) to Electrical (copper), or up to 4 electrical (copper) signals to Fiber (single mode) depending on your specific needs. These signal paths can be either way (Left to Right or Right to Left) within the SABER or bi-directional as needed. SABER allows for total flexibility in signal processing. SABER fully supports signals up to and including 3G (SMPTE 424M).

OPTICAL TO ELECTRICAL OVER COPPER

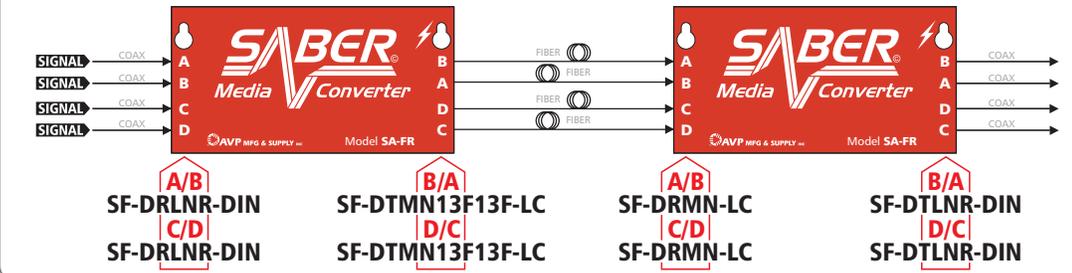


SK-02E-D

Kit consists of:

- SA-FR x2
- SA-PS-NA x2
- SF-DRMN-LC x2
- SF-DTMN-13F13F-LC x2
- SF-DTLNR-DIN x2
- SF-DRLNR-DIN x2

ELECTRICAL TO OPTICAL OVER FIBER

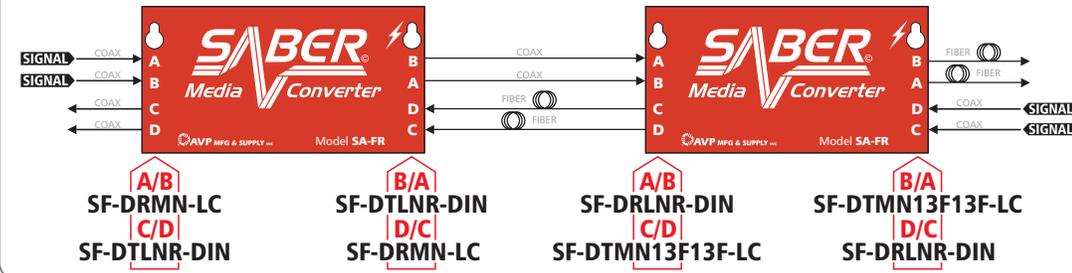


SK-E20-D

Kit consists of:

- SA-FR x2
- SA-PS-NA x2
- SF-DRLNR-DIN x2
- SF-DTMN13F13F-LC x2
- SF-DRMN-LC x2
- SF-DTLNR-DIN x2

BI-DIRECTIONAL OPTICAL TO ELECTRICAL (HYBRID)



SK-02E-02E-D

Kit consists of:

- SA-FR x2
- SA-PS-NA x2
- SF-DRLNR-DIN x2
- SF-DTLNR-DIN x2
- SF-DTMN-13F13F-LC x2
- SF-DRMN-LC x2

Ordering Information		
Kit Type	DIN1.0/2.3 Connectors	Description
Optical to Electrical	SK-02E-D	SABER Kit, Optical to Electrical over Copper (Coax) Conversion
Electrical to Optical	SK-E20-D	SABER Kit, Electrical to Optical over Fiber (Optical) Conversion
Hybrid Bi-Directional	SK-02E-02E-D	SABER Kit, Optical to Electrical over Copper & Fiber Bi-Directional Hybrid Conversion
Add -EU to end of Kit Model Number to receive Power Supply Unit, with European & Global PS Adaptors for SABER Series		



*HDBNC interface available

Digital to Analog SDI Conversion using Fiber or Copper

These packaged configurations for SABER will allow for the processing of up to 4 digital to analog conversions with the added functionality of further conversion within the SABER of these signals to either electrical (copper) and/or Fiber (single mode). These signal paths can be either way (Left to Right or Right to Left) within the SABER or bi-directional as needed. SABER allows for total flexibility in signal processing. SABER fully supports signals up to and including 3G (SMPTE 424M).

DIGITAL TO ANALOG OVER FIBER

SK-D2AO-D

Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-CDTANE-DIN x2
 SF-DTMN-13F13F-LC x2
 SF-DRMN-LC x2
 SF-DRLNR-DIN x2

DIGITAL TO ANALOG OVER COPPER

SK-D2AE-D

Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-CDTANE-DIN x2
 SF-DTLNR-DIN x2
 SF-DRLNR-DIN x4

BI-DIRECTIONAL HYBRID DECODER (L to R / R to L) (COPPER & FIBER)

SK-D2AE-D2AO-D

Kit consists of:
 SA-FR x2
 SA-PS-NA x2
 SF-CDTANE-DIN x2
 SF-DRLNR-DIN x2
 SF-DTLNR-DIN x1
 SF-DTMN-13F13F-LC x1
 SF-DRMN-LC x2

Ordering Information

Kit Type	DIN1.0/2.3 Connectors	Description
D to A Decoding	SK-D2AO-D SK-D2AE-D SK-D2AE-D2AO-D	SABER Kit, Digital to Analog Decoding over Fiber (Optical) Conversion SABER Kit, Digital to Analog Decoding over Copper (Electrical) Conversion SABER Kit, Digital to Analog Decoding over Copper & Fiber Bi-Directional Conversion

Add -EU to end of Kit Model Number to receive Power Supply Unit, with European & Global PS Adaptors for SABER Series



*HDBNC interface available

Analog SDI to Digital Conversion over Fiber or Copper

These packaged configurations for SABER will allow for the processing of up to 4 analog to digital conversions with the added functionality of further conversion within the SABER of these signals to either electrical (copper) and/or Fiber (single mode). These signal paths can be either way (Left to Right or Right to Left) within the SABER or bi-directional as needed. SABER allows for total flexibility in signal processing. SABER fully supports signals up to and including 3G (SMPTE 424M).

ANALOG TO DIGITAL TO FIBER				SK-A2D0-D
				Kit consists of: SA-FR x2 SA-PS-NA x2 SF-CDRAND-DIN x2 SF-DTMN-13F13F-LC x4 SF-DRMN-LC x2
SF-CDRAND-DIN SF-CDRAND-DIN	SF-DTMN13F13F-LC SF-DTMN13F13F-LC	SF-DRMN-LC SF-DRMN-LC	SF-DTMN13F13F-LC SF-DTMN13F13F-LC	

ANALOG TO DIGITAL TO COPPER				SK-A2DE-D
				Kit consists of: SA-FR x2 SA-PS-NA x2 SF-CDRAND-DIN x2 SF-DTLNR-DIN x4 SF-DRLNR-DIN x2
SF-CDRAND-DIN SF-CDRAND-DIN	SF-DTLNR-DIN SF-DTLNR-DIN	SF-DRLNR-DIN SF-DRLNR-DIN	SF-DTLNR-DIN SF-DTLNR-DIN	

BI-DIRECTIONAL HYBRID ENCODER (L to R / R to L) (COPPER & FIBER)				SK-A2DE-A2D0-D
				Kit consists of: SA-FR x2 SA-PS-NA x2 SF-CDRAND-DIN x2 SF-DTLNR-DIN x2 SF-DRLNR-DIN x1 SF-DTMN-13F13F-LC x2 SF-DRMN-LC x1
SF-CDRAND-DIN SF-DTMN13F13F-LC	SF-DTLNR-DIN SF-DRMN-LC	SF-DRLNR-DIN SF-DTMN13F13F-LC	SF-DTLNR-DIN SF-CDTANE-DIN	

Ordering Information

Kit Type	DIN1.0/2.3 Connectors	Description
A to D Encoding	SK-A2D0-D	SABER Kit, Analog to Digital Encoding over Fiber (Optical) Conversion
	SK-A2DE-D	SABER Kit, Analog to Digital Encoding over Copper (Electrical) Conversion
	SK-A2DE-A2D0-D	SABER Kit, Analog to Digital Encoding over Copper & Fiber Bi-Directional Conversion
	Add -EU to end of Kit Model Number to receive Power Supply Unit, with European & Global PS Adaptors for SABER Series	

*HDBNC interface available

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Partners in Broadcast, Telecom & Satellite Solutions

Small Form-Factor Pluggable (SFP)

SABER[®] Media Converter MICRO

Introducing Micro SABER Media Converter. The Micro SABER features up to two independent SFP paths and incorporates dual power/locking plugs for reliance and dependability. This simple two path design allows for integration into virtually any facility or platform, from Media to Broadcast to Outdoor Broadcast/Truck based designs.



Features:

- Utilizes latest SFP (Small Form Pluggable) Technology
- Full support up to, and including 3G signals
- Embedded audio support (depending upon SFP installed)
- Up to 2 Totally INDEPENDENT signal Paths
- Dual Locking Power Supply for confidence
- Made in North America

Applications Include:

- Broadcast Facilities
- Outdoor Broadcast Applications
- Camera Applications
- Remote Applications



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Partners in Broadcast, Telecom & Satellite Solutions

Small Form-Factor Pluggable (SPF)

3Gbit Bidirectional SDI/Fiber Transceiver



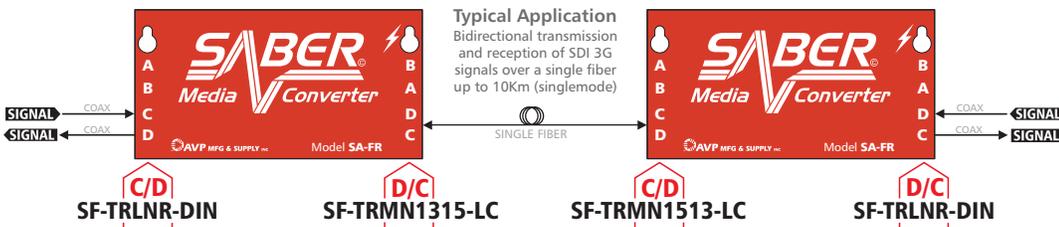
- Supports SDI 75 Ohm video up to 3Gbit/s (1080p60)
- Bidirectional send & receive on single fiber
- Error free optical connections
- Up to 10Km (6.2 miles) at 3Gbit/s
- Simplex LC/PC singlemode optical connection
- Supports hot swapping & hot plugging

The SK-OBD1F kit is a bidirectional SDI transmitter and receiver that uses a single fiber cable for distribution of uncompressed broadcast quality video signals over long distances up to 10Km. Fully supports signals up to and including 3G (SMPT 424M)



BIDIRECTIONAL ELECTRICAL TO OPTICAL TO ELECTRICAL (HYBRID)

SK-OBD1F-D



Kit consists of:

- SA-FR x2
- SA-PS-NA x2
- SF-TRLNR-DIN x2
- SF-TRMN1315-LC x1
- SF-TRMN1513-LC x1
- D12PC-1-BLACK-BN x4
- Optional Case: SK-A1400-BK

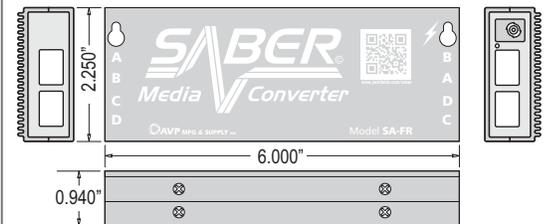
SK-OBD1F-D Kit includes:

SA-FR	2,	3Gbit Bidirectional SDI/Fiber SABER Enclosure, 4 SFP Cages, Power Status LED, keyholes for wall-mount
SA-PS-NA	2,	Power Supply Unit, North American Adaptor Type for SABER Series
SF-TRLNR-DIN	2,	3G-SDI SFP Coaxial, Transceiver, with Reclocker, Long reach, non-MSA, DIN 1.0/2.3 connectors
SF-TRMN1315-LC	1,	3G HD SDI SFP Bidirectional 1310Rx/1550Tx, 0~70°C, 10Km, non-MSA, LC connectors
SF-TRMN1513-LC	1,	3G HD SDI SFP Bidirectional 1550Rx/1310Tx, 0~70°C, 10Km, non-MSA, LC connectors
D12PC-1BLACK-BN	4,	Cable, DIN 1.0/2.3 Plug (M) to BNC Jack (F) Cable Adapter, 1 foot, black, Belden 1855A

Optional Pelican Case:

SK-A1400-BK Pelican case, custom foam, version A

*HDBNC interface available



System	
Density:	SABER holds up to 4 independent SFP modules
Impedance:	75W
Connectors Supported:	DIN 1.0/2.3, HDBNC, LC Optical & HDMI/DVI
Physical	
Dimensions:	6.000"W x 2.250"D x 0.940"H
SFP Module Capacity:	Up to 4 AVP SFP modules including Dual TX and Dual RX
Status Indicator OK:	Green LED
Electrical	
Power Supply Configuration:	Single External Supply
Voltage:	DC Input 9-32VDC
Max Power Dissipation:	12 Watts (fully loaded)
Note:	Power consumption dependent on SFP type
External Power Supply Brick	
AC Mains Input:	Auto Ranging, 90-264VAC, 50/60Hz
Number of outputs:	1
Output Voltage:	24VDC@0.75A
Warranty:	One year, date of shipment from AVP

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