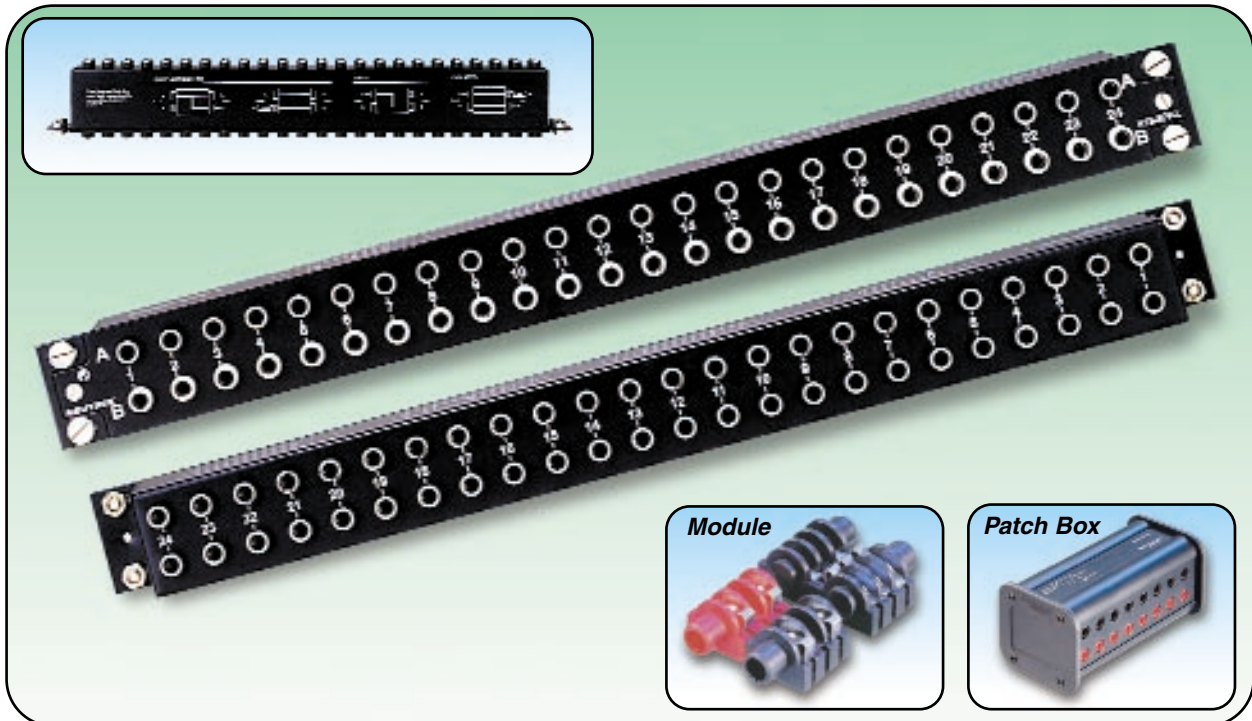


# PatchLink® SPL

*“The easy way to link your audio systems.”*



NEUTRIK offers the fourth generation 1/4" patch panel, the PatchLink® SPL. This latest version offers a metal entry-way at the nose of each jack for increased wearability and reliability. In addition, the PatchLink SPL is exceptionally versatile and easy to use. Configurations are screen printed on top of each unit and include half-normalled, split or isolated. The normalled jack is colored gray for easy identification.

Features include:

- 48 balanced channels (24 pairs - front and rear) in one 19" rack mount space.
- Removable front panel has 2 screws separate from the four rack mount screws to facilitate ease of use.
- Jack card contains 4 balanced jacks with non-tarnishing contacts, is fully PCB wired, and is held securely in place without the use of nuts – no little pieces to drop, break or lose.
- No soldering required to program – just flip the PC card and insert your standard 1/4" plugs.
- Four ID strips and four rack mount screws included.
- **NEW!!** Optional accessories include individual split/return modules (NYS-SPCR) and the Patch Box with 8 split/return modules.

 **NEUTRIK**<sup>®</sup>  
CONNECTING THE WORLD

Neutrik USA, Inc.  
195 Lehigh Avenue, Lakewood, NJ 08701-4527  
Phone: 732-901-9488 Fax: 732-901-9608  
E-Mail: info@neutrikusa.com Web Site: www.neutrikusa.com



# SPP-L)

of one PC card with 4 balanced 1/4" jacks one of which is the gray M jacks, which breaks up when inserting a plug into the gray jacks on these pages.

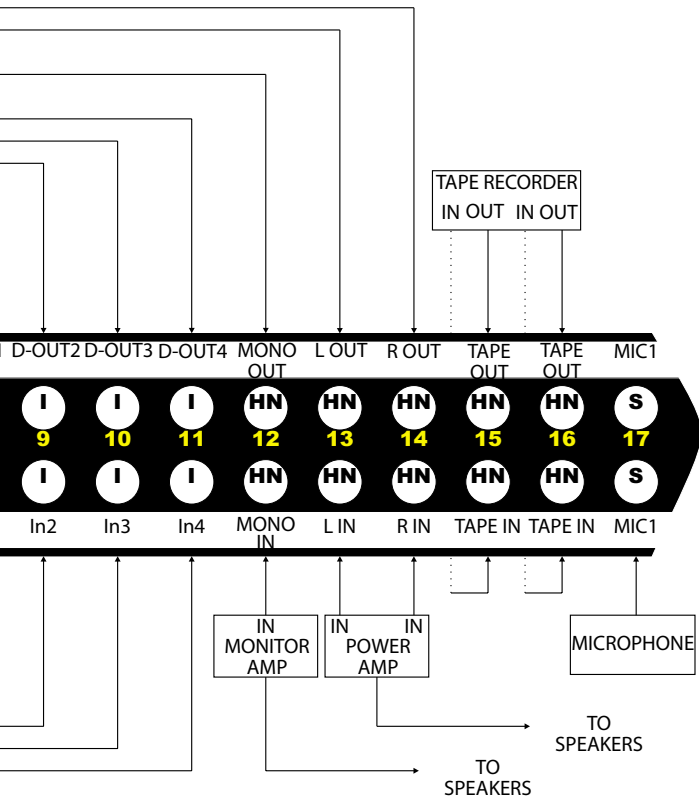


Figure 5: Flip over the Jack module to get the configuration SPLIT (ISOLATED)

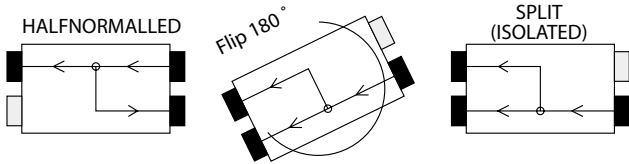
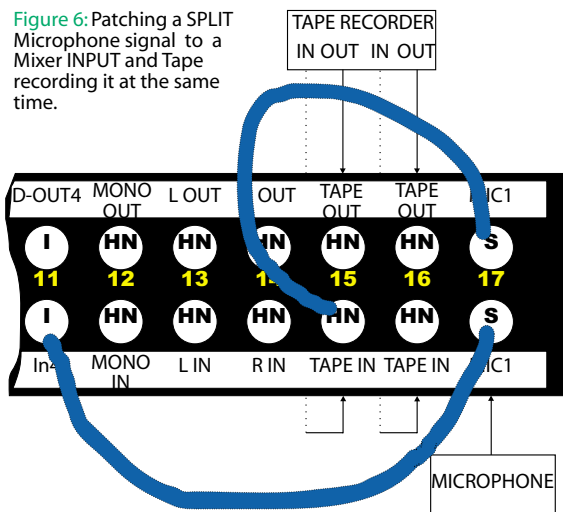


Figure 6: Patching a SPLIT Microphone signal to a Mixer INPUT and Tape recording it at the same time.

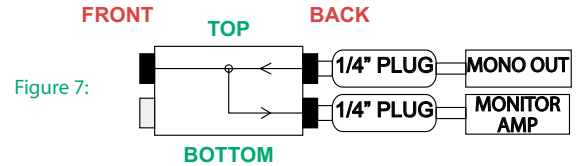


## How to Use a Jack-Module in the HALF-NORMALLED configuration

Each JACK MODULE in the HALF-NORMALLED configuration provides a connection between both of the TOP jacks (front and back) and the BACK BOTTOM jack. This connection is broken when a plug (or patch cord) is inserted into the BOTTOM jack of the front row (gray normalizing jack).

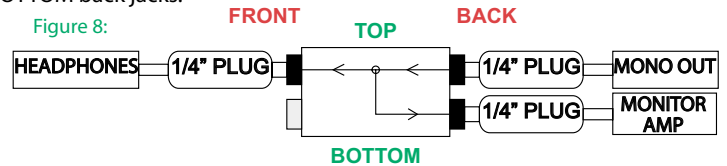
### Patch panel BACK set-up:

Fig. 7 shows jack module #12 of our sample patch panel. It is standard practice to connect the OUTPUT of the gear that produces the signal (in this case the MONO OUTPUT of the mixer) with the TOP BACK jack on the panel and to connect the BOTTOM BACK jack with the INPUT of a receiving gear (in this case a MONITOR AMP). Because of the NORMALLING the circuit is closed without any patching.



### Inserting a PLUG into the FRONT TOP row:

Inserting a plug into the TOP FRONT jack does not affect the closed circuit on the BACK of the same module. In Fig. 8 the connection between the MONO OUT and MONITOR AMP will still be closed if we connect, for example, a headset to the TOP FRONT to "listen in" to what is being sent to the amplifier. This configuration can also be used to route the signal into another channel or split the signal without breaking the existing connection between the TOP and BOTTOM back jacks.



### Inserting a PLUG into the FRONT BOTTOM row:

Inserting a plug (Fig 9) into the BOTTOM FRONT gray normalizing jack breaks the circuit between the TOP jacks and the BOTTOM BACK jack. The receiving gear will then be fed with the inserted signal from the normalizing jack on the BOTTOM FRONT. This can be used to loop an effect gear, route signals to other channels, etc. The example in Fig. 10 loops the compressor of channel 7 between the MONO OUT (mixer output signal) and the MONITOR AMP INPUT.

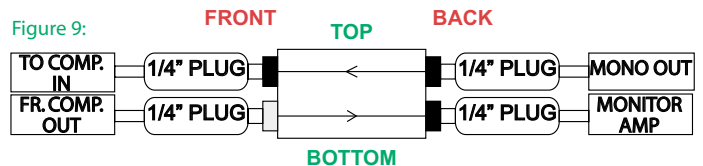
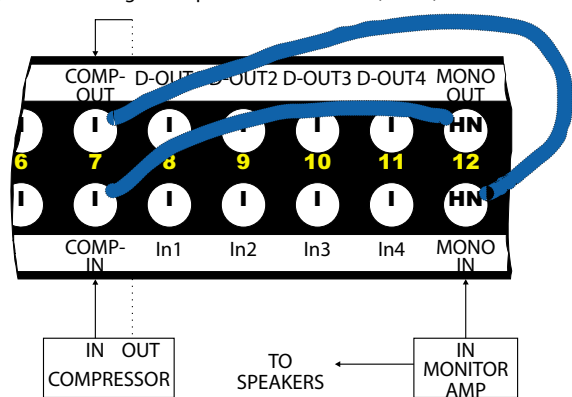
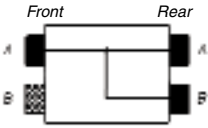
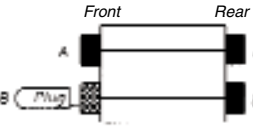
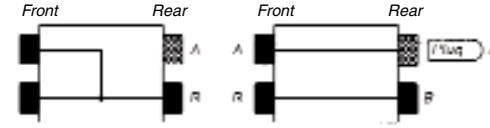
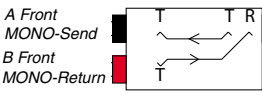


Figure 10: Patching a Compressor to a Monitor (Mono) Mix



# CONFIGURATIONS

Determines the link between bottom and top row.

<b>HALF-NORMALLED</b>	<b>SPLIT</b>	<b>ISOLATED</b>	<b>OPTIONAL: Send / Return Module (Split Print)</b>
 <p>Front jack A for "listen in"</p> <p>If no plug is inserted into the gray jack, A<sub>front</sub> is connected to A<sub>rear</sub> and B<sub>rear</sub>.</p>	 <p>Gray B jack for signal insertion</p> <p>Insertion of a plug breaks the connection between top and bottom.</p>	 <p>Upper (A) and lower (B) channel separated</p> <p>With plug constantly inserted into the gray N-jack, the link between A and B jacks is opened and the upper and lower signal paths are isolated against each other.</p>	 <p>A Front MONO-Send B Front MONO-Return</p> <p>Solution for insert jacks of mixing consoles: Split print by-passes the use of a specially wired Y-cable. Supports send/return concept of mixing consoles. This module is used to loop a signal; to an effect gear (etc) by using just one cable with stereo plugs.</p>

Additional information can be found in FAQ section of website – [www.neutrikusa.com](http://www.neutrikusa.com)

## TECHNICAL DATA

### ELECTRICAL

Connector-contact resistance:	< 10 mΩ	Current rating:	1A
Switch-contact resistance:	< 10 mΩ	Dielectric strength:	> 1.000 V dc
Insulation resistance:	> 2: 10 <sup>9</sup> Ω @500 V dc	Crosstalk between upper and lower channel:	> 110 dB @ 1kHz

### MECHANICAL

Jack lifetime:	>10.000 insertion/withdrawal cycles	Insertion/withdrawal force:	≤ 20 N / ≥ 10 N
Dimensions:	483 mm (W) x 44 mm (H) x 71 mm (D)	Rack mount panel:	19" x 1U

### MATERIALS

Housing:	Steel, black coated	Contacts:	CuZn39Pb3, SnCe plated
Connector shell:	ABS	Temperature range:	-30°C to +80°C

<b>FAQ's</b>	<a href="http://www.neutrikusa.com">www.neutrikusa.com</a>
<b>Labeling Software</b>	<a href="http://www.neutrik.com">www.neutrik.com</a> (head office) in the PRODUCTS section under PATCH PANELS
<b>Dimensions</b>	<a href="http://www.neutrik.com">www.neutrik.com</a> (head office) in the PRODUCTS section under PATCH PANELS

## ORDERING INFORMATION

<b>Patch Panel</b>	NYS-SPP-L
<b>ACCESSORIES</b>	
Send / Return Split Print module	NYS-SPCR
1/4" Patch Box	NYS-SSR8

**Represented and Serviced by:**