



Ghilmetti Connecting System

Since many years already Ghilmetti products are used in radio and TV stations, sound studios, theatres as well as in data and signal networks.

Hereafter the advantages of Ghilmetti Panels

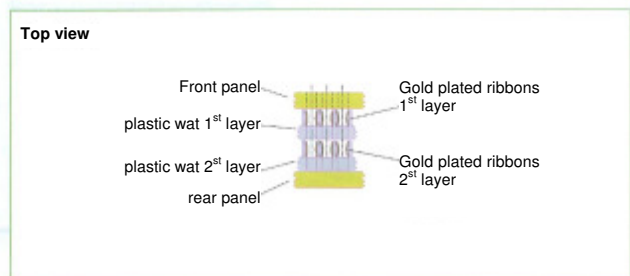
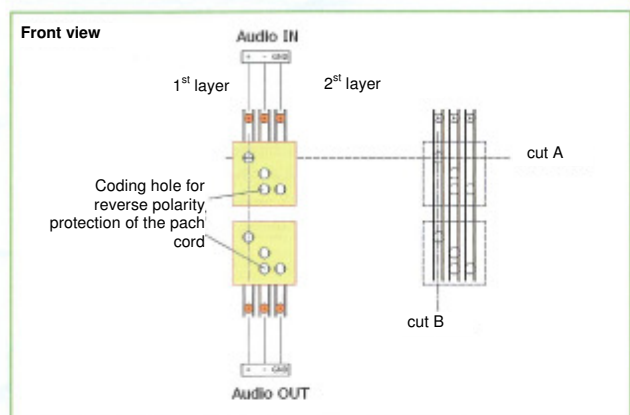
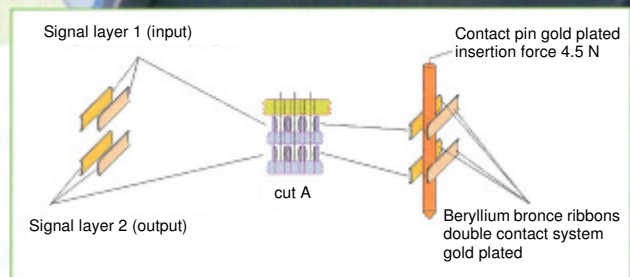
- High durability and reliability
- No moving parts, wearless
- Self cleaning at each insertion withdrawal operation
- Gold plated double contact system
- Analog and digital application, AES/EBU
- 3 pole signal lead, ground is activated
- 2 pole switching, to prevent ground loops
- Optional: High Performance with integrated channel shielding
- 2 years guarantee

Functionality

Basis of the Ghilmetti Systems are alloyed beryllium bronze ribbons, bent and gold plated. These metal ribbons are inserted in patented plastic wats, 2 layers each compose together with front and rear plate a patch panel.

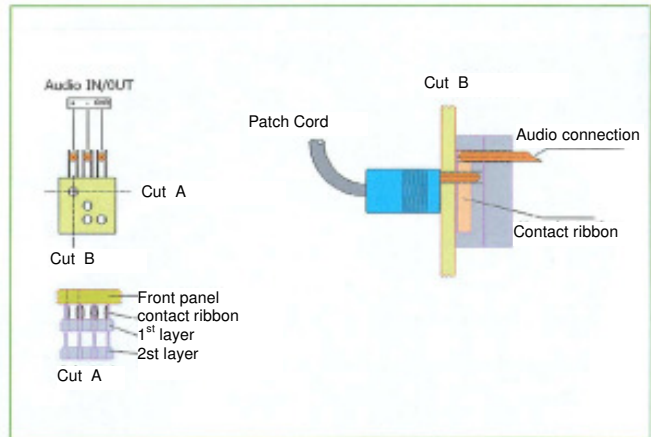
To each wire is dedicated a pair of contact ribbons. As shown in the drawing, these ribbons run in the 2nd layers vertically. The connection is made by contact pins, which are inserted in the front resp. rear side. Also the contact pins are gold plated. Because of the bending the ribbons are compressed outwards by the contact pins. Thus ensures a absolutely safe and electrical clean connection. Due to the gold plating the surface is so smooth, that galvanic relevant humidity cannot affect the contacting. Dust and other impureness are wiped away during the insertion withdrawal operation, the system is self cleaning.

Thanks to this functional principle the mentioned advantages result against the common jack fields actually available on the market.



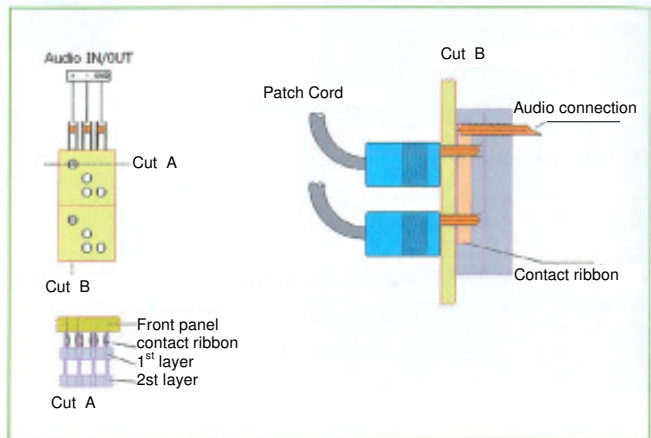
1. Normal Patch Panel ASF-A

For incoming and outgoing lines, which can be ranged on the patch panel by patching operations. As shown on section drawing B, the contacts of the patchcord reach only the 1st layer. On normal patch panels the 2nd layer is not populated, and therefore inactive.



2. Normal Patch Panel with parallel tap: ASF-AP

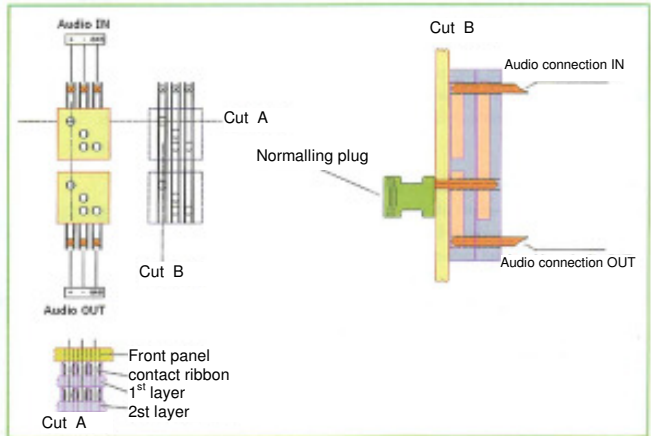
The functionality corresponds to the normal patch panel, though for incoming resp. outgoing signals 2 parallel connections are available for patch lines.



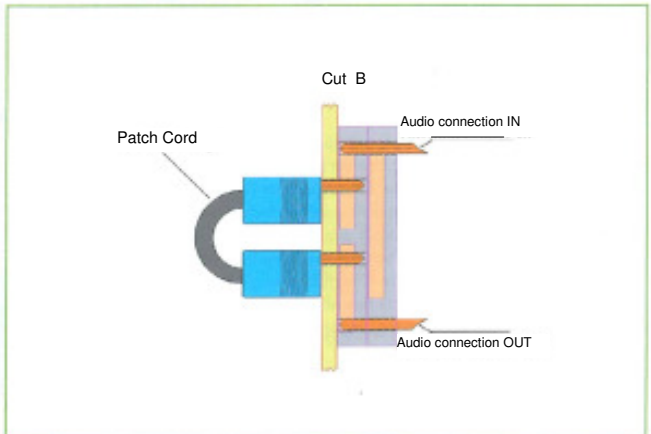
3. Connecting Patch Panel ASF-AV

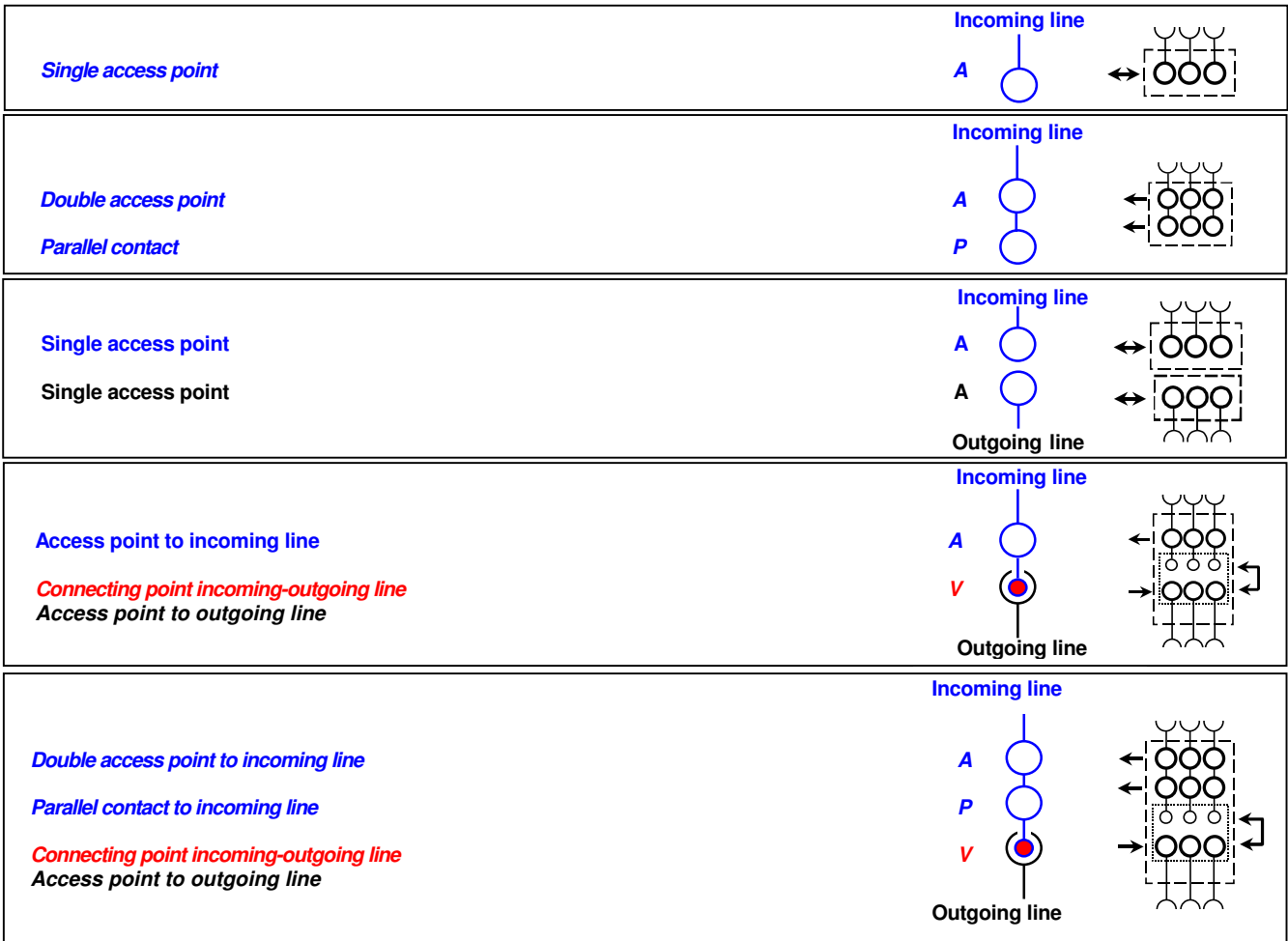
On the connecting patch panels incoming signals are on the top row, and outgoing signals on the bottom row. A connection between incoming and outgoing lines can be realised on 2 ways. As shown on the section drawing, the signal of the outgoing line is on the 2nd layer.

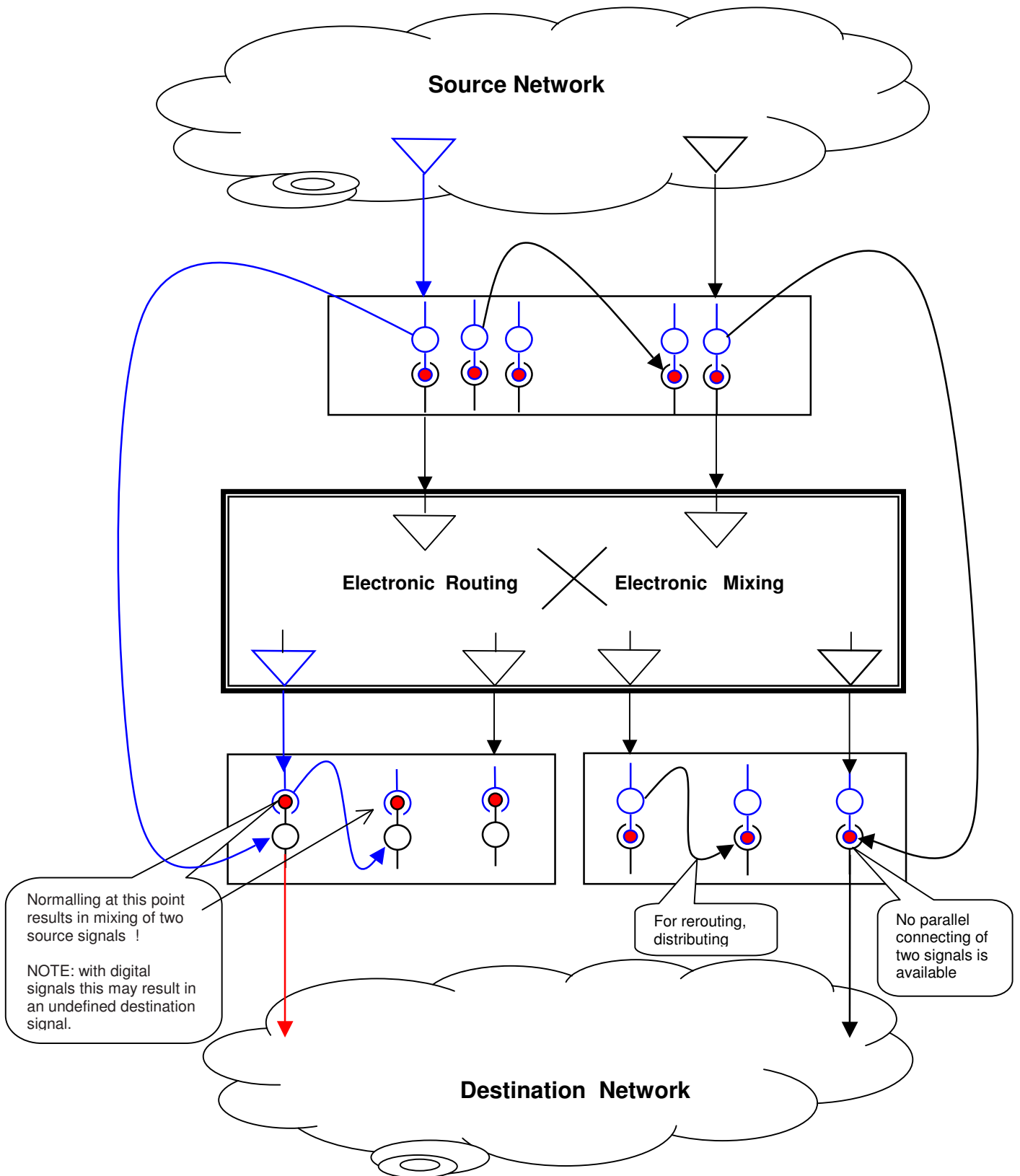
The input is on layer 1 same as with the normal patch panel. The direct connection between in- and output is made with a 3 pole normalling plug. The pins of the normalling plug are twice as long as those on the patchcord. This way 1st layer is connected to 2nd layer.



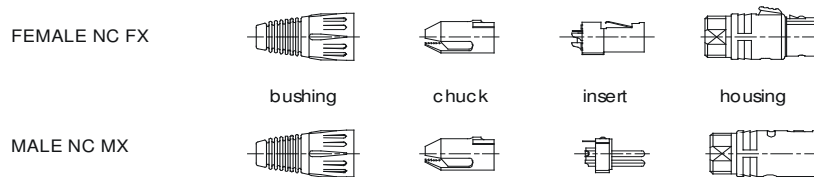
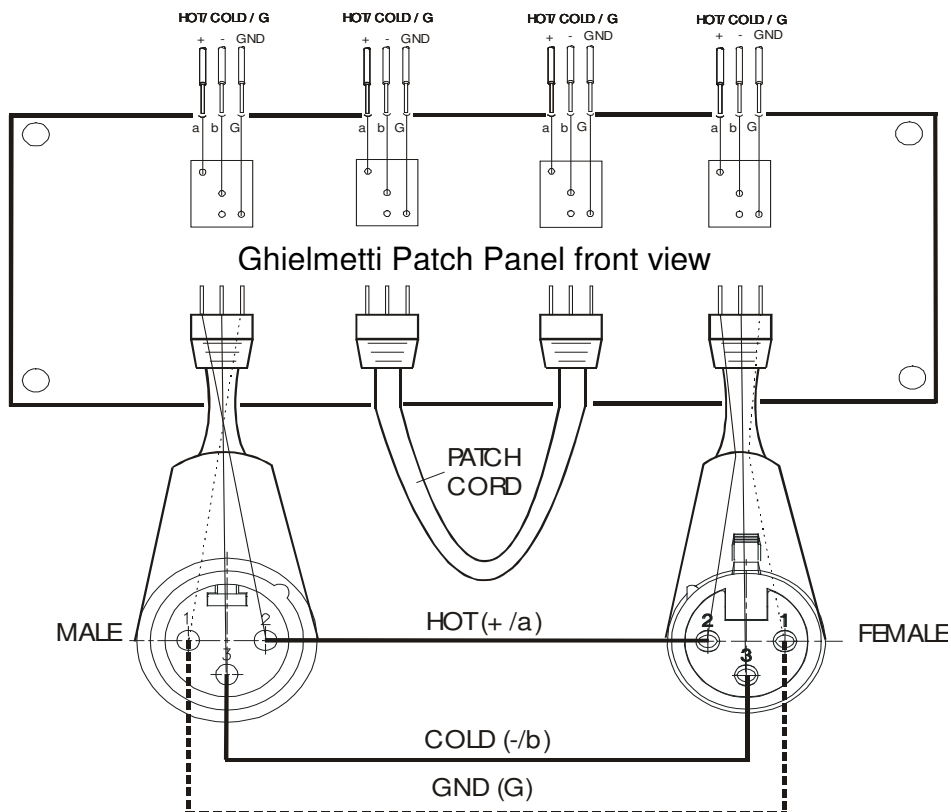
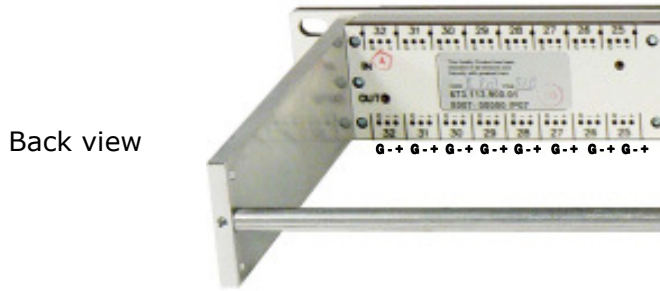
Naturally the patching operations on the first layer are also possible as shown on the drawing.



Patch and connecting functions with Ghielmetti Patch Bays




Pin layout GHIELMETTI Patch Panels






The most sophisticated Patch and Connecting Systems


The basic construction of all Ghielmetti patch panels results from a same effect:

Self-cleaning multi-level gold plated contact system with a flexible bus structure



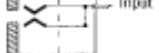




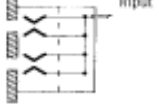




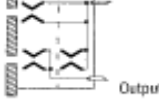
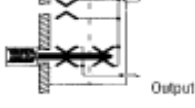





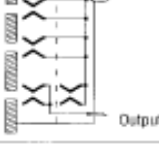
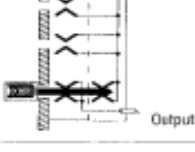
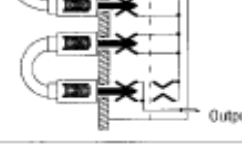
Therefore the patch panels can be built and delivered in several different types. Also customized devices can be easily realized. The basic elements exist of:

Normal contact **A**  Access to this contact are made by a patch cord.

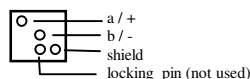
Two contacts in parallel **A**  **P**  Access to this contacts are made by patch cords.

Connecting contact **V**  Connection is made by a connecting plug. unplugged, the connection is separated.

NOTE: The pins of the connecting plugs and the pins of the patch cord connectors have different lengths. Therefore there is **no direct connection** when the patch cord is inserted into the connecting contact. On the other hand, there is **a direct connection** between the incoming and outgoing line when a connecting plug is inserted.

Specification	Symbol	View	Current Flow inactive	with Connecting Plug	with Patch Cord
Normal Patch Panel with: A Normal Contact like ASF 1x32 A 3/1 LA H			 Input		 Input
Normal Patch Panel with: A Normal Contact P Parallel Contact like ASF 1x32 AP 3/1 LA H	 		 Input		 Input
Connecting Patch Panel with: A Normal Contact V Connecting Contact like ASF 1x32 AV 3/1 LA H or CSF 1x48 AV 3/1 LA	 		 Input Output	 Input Output	 Input Output
Connecting Patch Panel with: A Normal Contact P Parallel Contact V Connecting Contact like ASF 1x32 APV 3/2 LA H	  		 Input Output	 Input Output	 Input Output

Standard pin out:





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