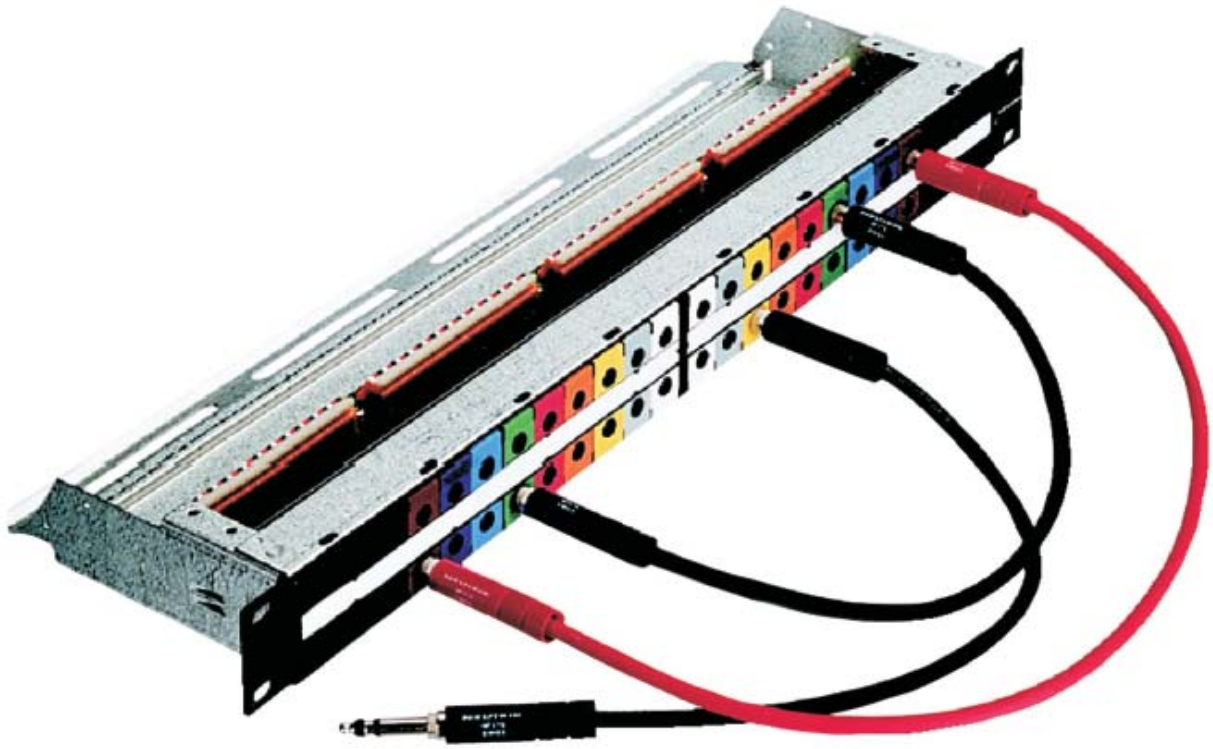
INSTRUCTION MANUAL

NPP-TB

PATCH PANEL “Easy Patch” | 48 TB Jack



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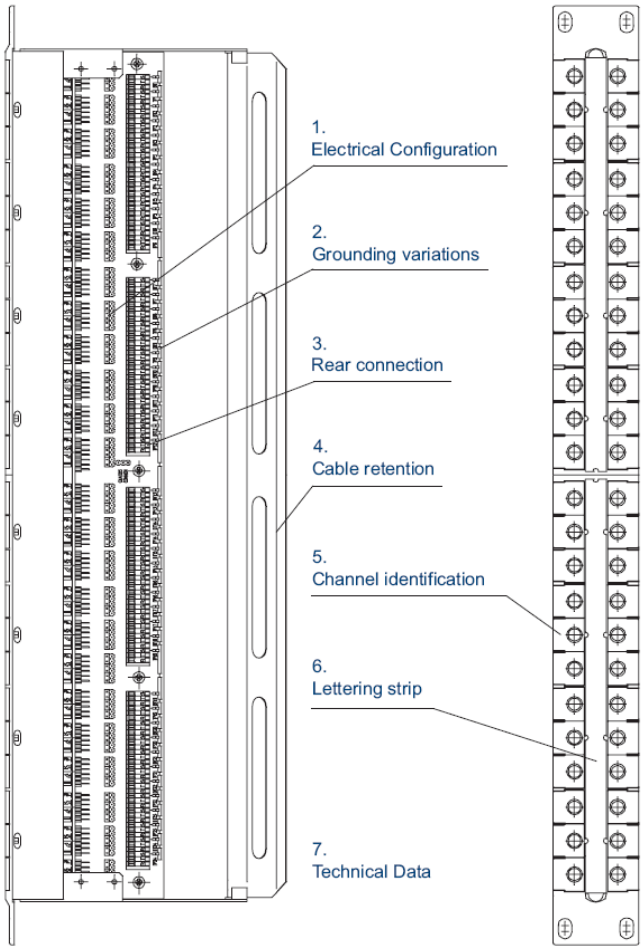
Index



1. Electrical configuration

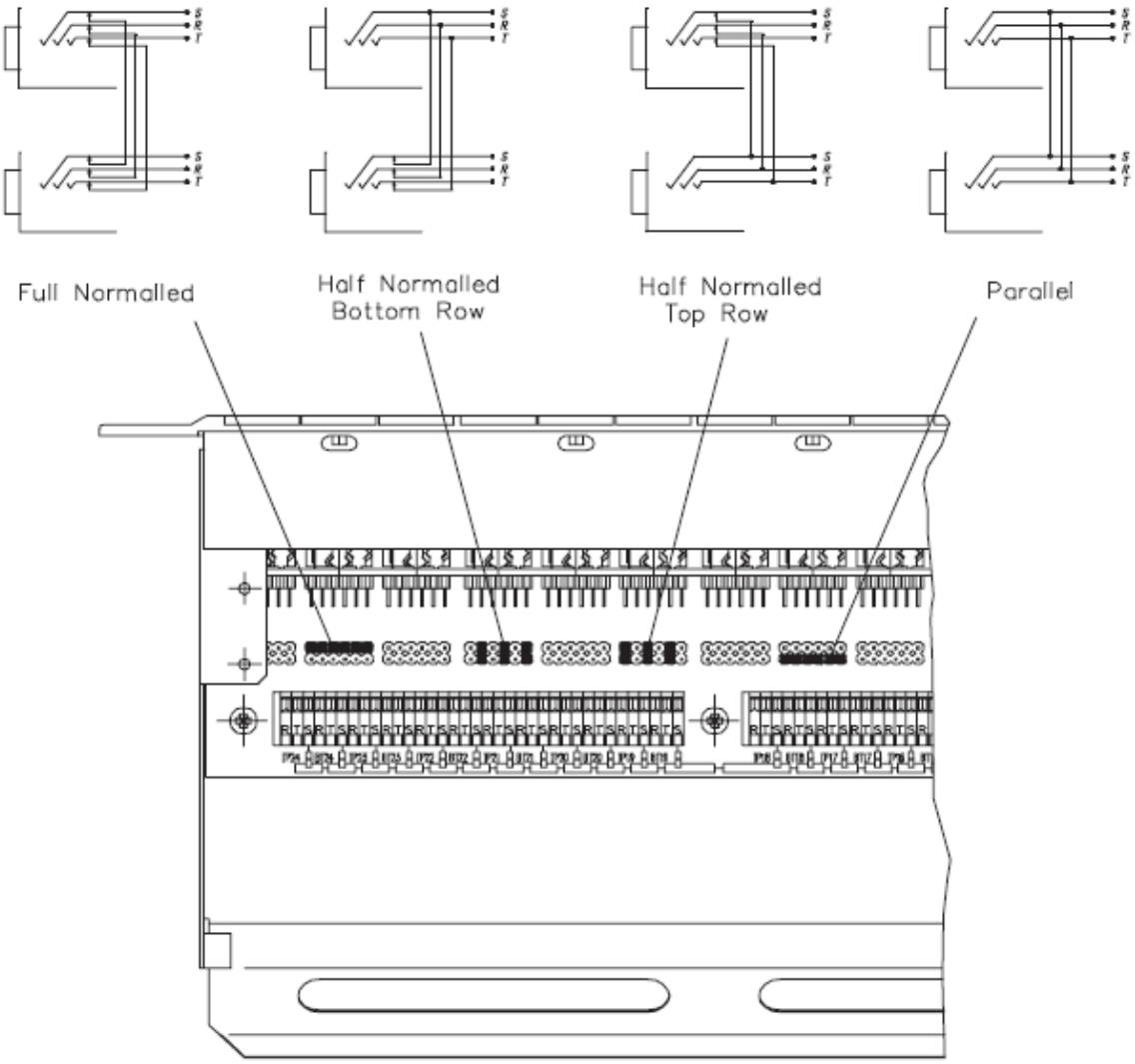
The programming feature allows to set all switching configurations -

- parallel
- half normalled top
- half normalled bottom and
- fully normalled

..... quickly and easily by jumper blocks individually for each channel.

The delivery configuration for EASY PATCH NPP-TB is "Full Normalled".

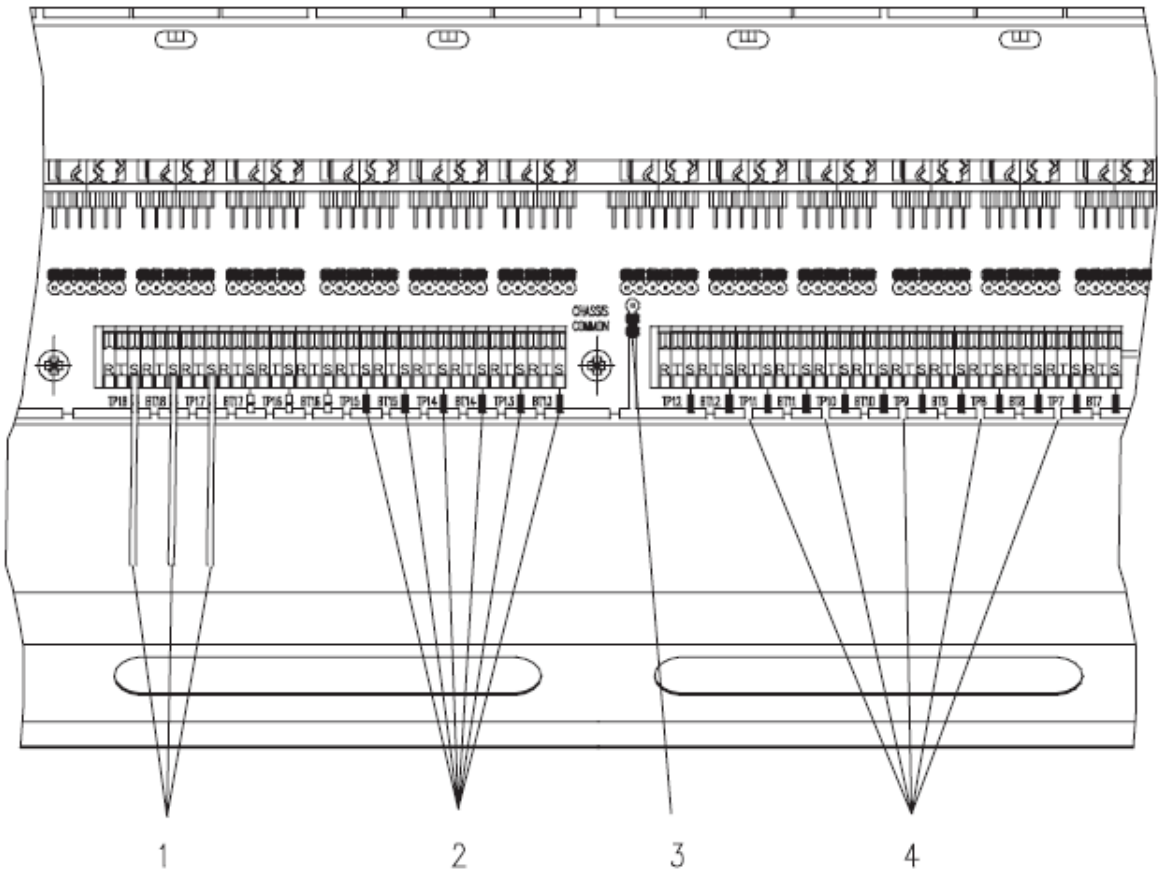
Circuit diagrams and jumper positions for the four configurations:



2. Grounding Variations

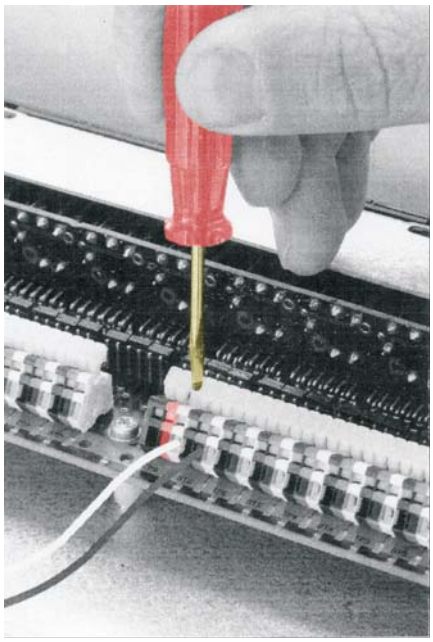
There are several possibilities for individual grounding. The following items correspond to the drawing.

1. Standard grounding is to connect the ground terminals (marked with an "S") with the shield of the incoming cable, individual grounds are not connected.
2. Connecting the pads beside the numbers 1 - 24 with some solder leads to a connection between that channel and the common ground.
3. Connect the common ground with the chasis ground by setting the jumper to position "CHASSIS-COMMON".
4. To group ground, you have to remove the small tracks between the groups of channels.

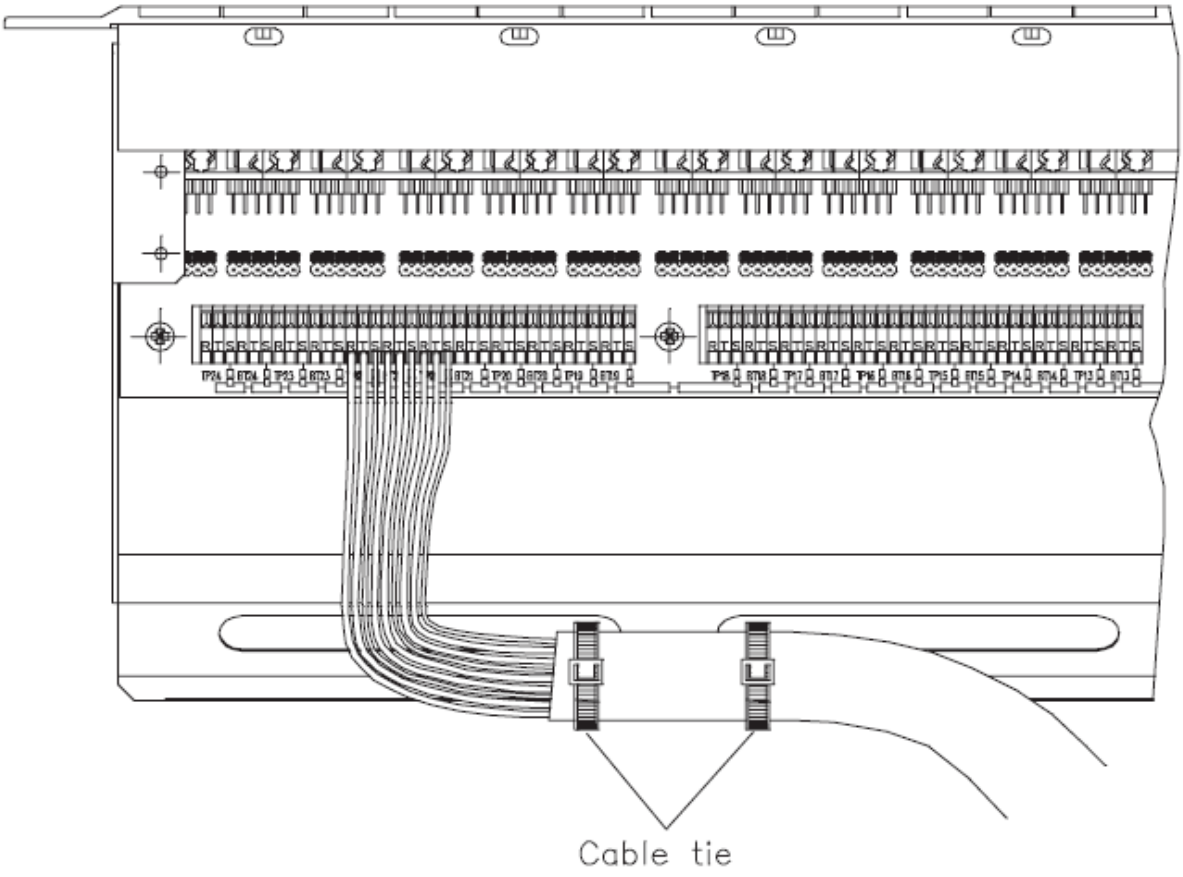


3. Wiring

Wire are connected to WAGO spring clamping devices. There is NO soldering or screwing necessary. Simply insert the stripped wire (6 mm) after pressing down the white key by means of a screwdriver.

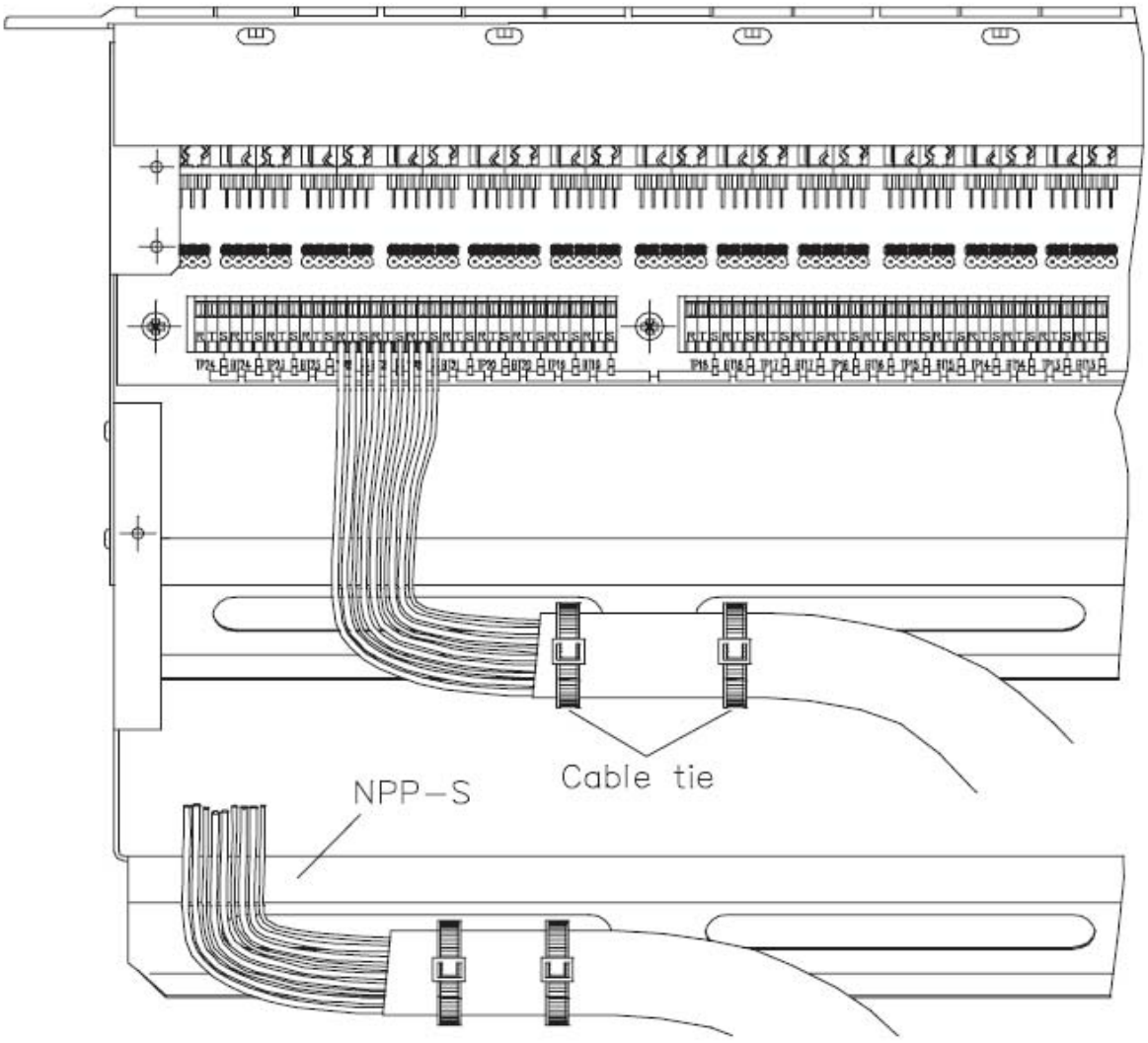


Lettering above the insertion holes:
T ... means TIP, R ... is RING and S ... is SLEEVE.
The corresponding channel numbers are located adjacent to the WAGO terminals.
The terminal will handle solid and stranded wire up to AWG 20 (0.5 mm²). Single wires up to AWG 18 (0.75 mm²) are possible.



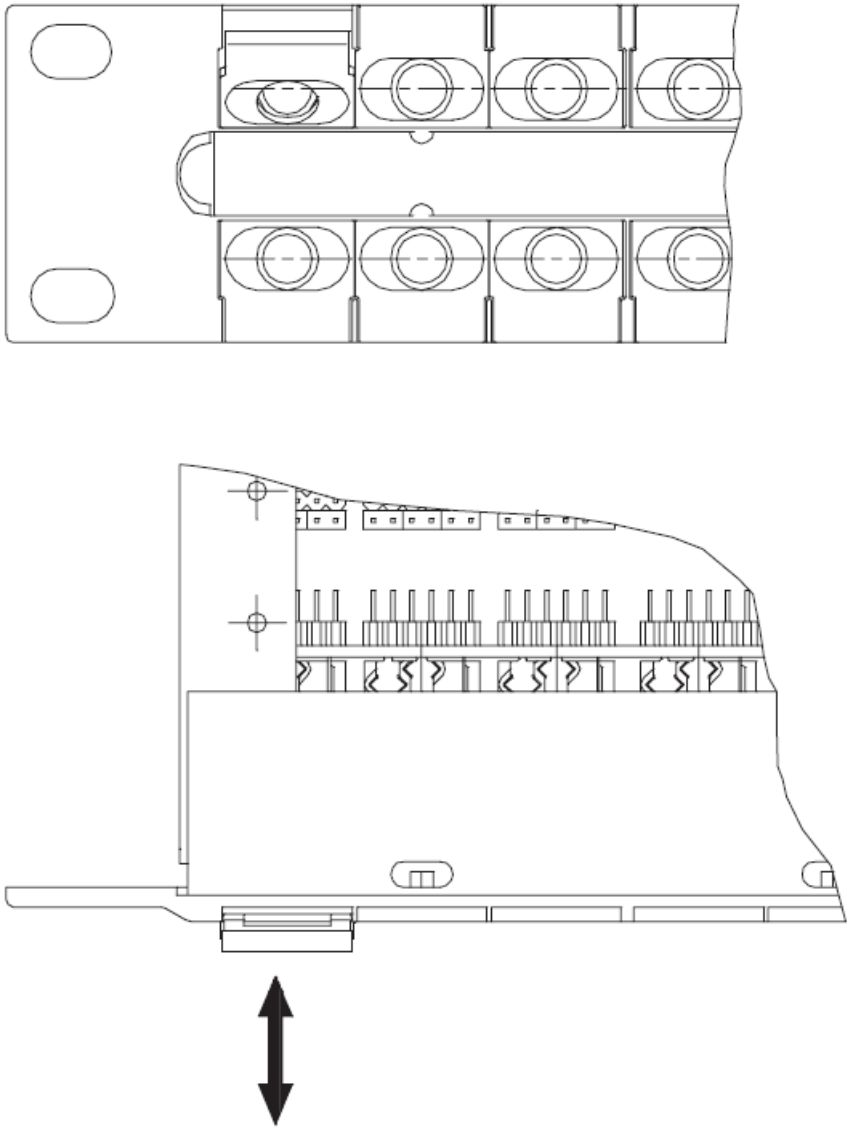
4. Cable retention to the unit

The cable retention is at the back of the one piece metal housing. Simply put the cable onto the prismatic bar and attach it with cable ties as shown in the drawing.
For large or thick bundles there is a rear extension bar (NPP-S) available as an option.
It can be attached with four screws to the main housing. The cable is attached to the bar in the same manner as the standard version.



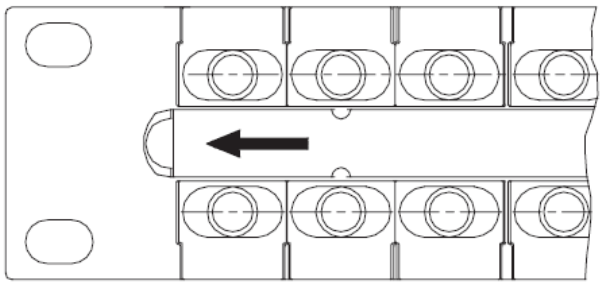
5. Cannel Identification

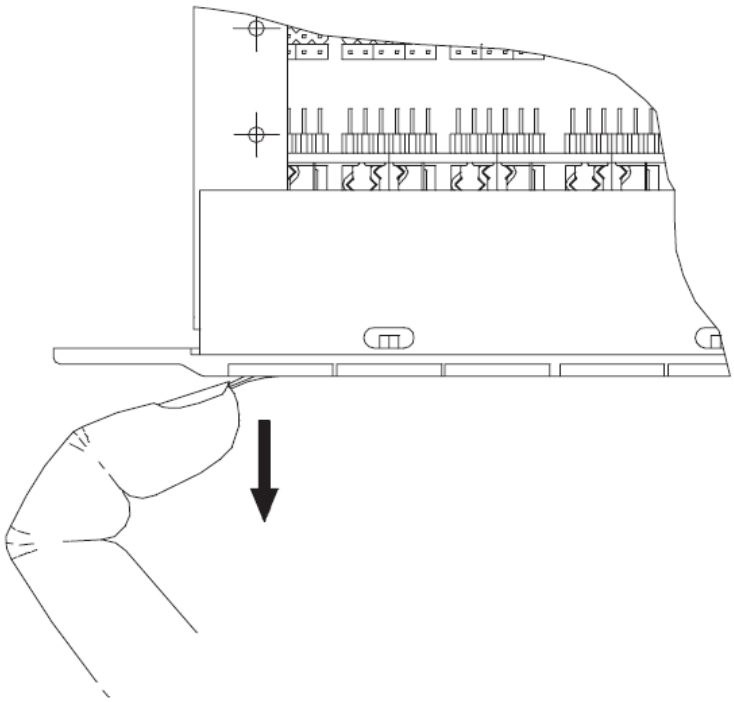
Easy Patch is equipped with all channel identification labels in color black. If you need to replace or change the label colors first remove the label by means of a small screwdriver. To insert a new label position it at the side of the lettering strip first, then press in the other side with your finger.



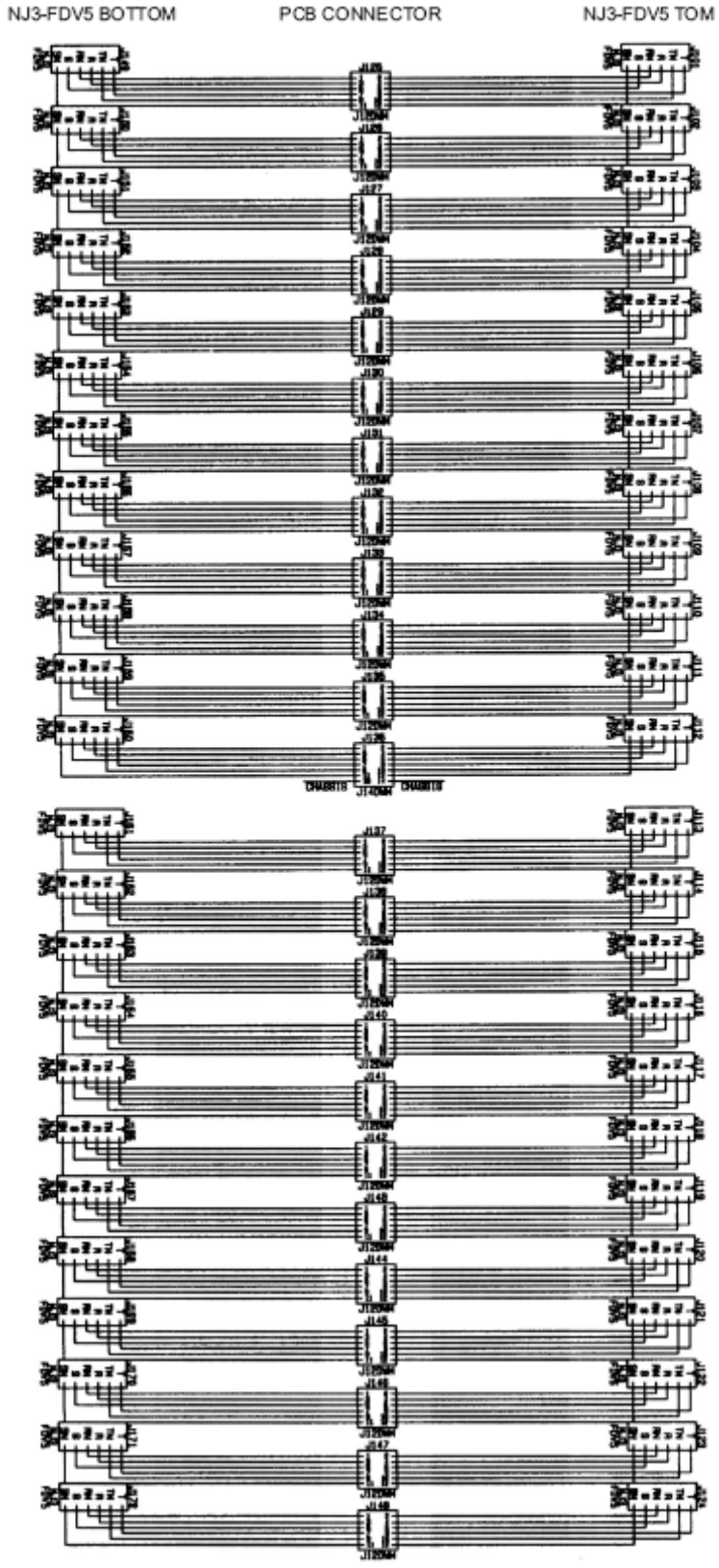
6. Lettering strip

Between the top and the bottom connector row is located the lettering strip.
To write on the paper strip lift the strip with your fingernail at the indentation on the left and right respectively of the Easy Patch and pull it out. Separate the paper and the Plexiglas, write the identification on the paper and insert it into panel from outside end to the center.

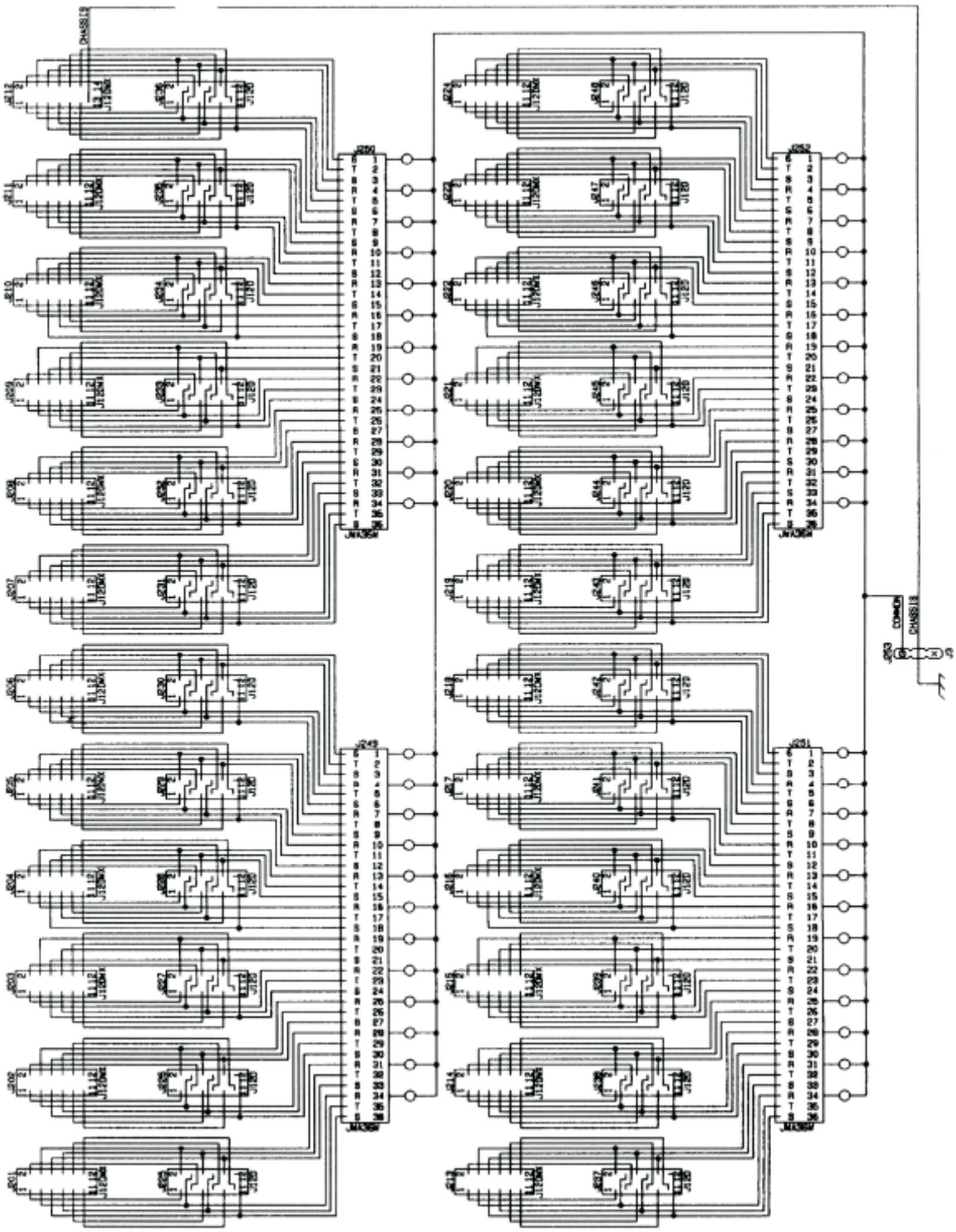




Wiring diagram vertical PCB



Wiring diagram horizontal PCB



o .... Ground connection with solder joints

7. Technical data

Electrical

Connector contact resistance:	< 10 mΩ / Switch contact resistance: < 15 mΩ
Insulation resistance:	> 10^9 Ω @ 500 VDC / Dielectric withstanding voltage: 1000 VDC acc. IEC 512-2
Cross talk between stereo pairs:	> 120 dB @ 1 kHz, 600 Ω terminated
Cross talk between two adjacent channels:	> 120 dB @ 1 kHz

Mechanical

Jack lifetime:	> 10.000 insertion / withdrawal cycles
Insertion / Withdrawal force:	10 N / 12 N
Dimensions:	19" x 1U, rack mount

Ordering information for accessories

NPP-LB	Channel identification and status plates, pack of 50 pcs., 10 different colors
NPP-C	Metal dust cover
NPP-S	Rear extension bar to fix very large cables (harnesses)