Loudspeaker Connectors
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**Notes:**
- NEUTRIK®, opticalCON®, neutriCON®, miniCON®, nanoCON®, powerCON®, Profi®, speakON®, silentPLUG®, crystalCON®, etherCON®, rearTWIST®, XIRIUM®, DIWA® are registered trademarks of Neutrik AG.
**Introduction**

The Neutrik speakON® Series, known in the professional audio industry as "The loudspeaker connector" has become the state of the art in speaker and amplifier connectivity. Introduced in 1987 speakON was invented by Neutrik as a result of customer demand for a reliable speaker connection. The pro audio market quickly realized the advantages of this completely new connection system.

**Integrated Design**

One of Neutrik’s goals is to create products that are easily distinguished from other manufacturers. We have successfully achieved this in our engineering efforts as well as the patent and trademark protection granted for our unique products. To further establish a clear difference between Neutrik and our competitor’s products we give our customer the means to easily identify original Neutrik products. Therefore all of our new products such as the SPX and the STX series are designed according to the protected integrated design. (EU-Pat.: DM/057 379, US-Pat. Pending, CHINA-Pat.: 02305192.2/193.0/194.9/195.7)

**Features & Benefits**

Today’s speakON series is a result of a continuous product improvement process. The principal idea has been kept and optimized with material and design modifications over the years.

A traditional speakON stands for:
- Reliable and robust, easy and fast to assemble
- 2, 4 and 8 pole cable and chassis connectors in various versions
- Optimal "Quick Lock" system for speaker applications
- Neutrik® proven and unique chuck type cable strain relief
- Outstanding cost-performance ratio
- De facto standard
- Meets all worldwide safety requirements (IEC, UL, ...)

Beyond that, the latest designs as the SPX and STX series offer:
- Up to 50 Amps current rating
- Only 3 parts with 1 piece strain relief design for even easier assembly
- Convertable right-angle version
- Weatherproof and extremely robust
Quick lock
Chuck type strain relief
Right angle conversion

**speakON SPX Series 4 Pole Cable Connector**

- Current rating 40 A rms continuous
- Up to 50 A audio signal, duty cycle 50%
- Only 3 parts, easy to assemble
- High impact materials – long-lasting and reliable
- Easy and extremely precise locking system "Quick Lock"
- Improved grip on latch
- 1 piece strain relief, chuck for 7 to 14.5 mm cable O.D.
- Color coding possible
- Improved screw-type termination for highest pull-out force
- Integrated design guarantees "Made by NEUTRIK®"
Design Criteria

This second generation of speakON connectors features higher current rating for the operation of high power speakers and amplifiers carrying more than 1'000 Watts. Only 3 parts make it fast and easy to assemble with a more reliable performance. Our unique design makes it possible to change easily and quickly from a straight connector to the right-angle version, even without disconnecting the cable.

HINT:
For easy wiring especially of thick cables, first screw on the inner contacts 1+ and 2+ and afterwards the outer contacts 1- and 2-!
Use screwdriver Pozidriv #1 only.

Assembly

Prepare cable as shown.
**Keying:**

- NL2FC
- NL4FC
- NL2MP
- NL4MP

- 4 pole – Branded with unique hologram – guarantees genuine and authentic NEUTRIK® product
- Up to 30 A rms current rating
- Glass reinforced materials for housing and inserts
- Unique Neutrik® chuck type strain relief
- Precise keyway for secure mating
- Accurate twist lock latching system
- 4 pole in new design with more ergonomic latch
speakON Adapter

**NL4MMX:**
Features permanent secure connection on a speakON cable connector using 2nd lock.

**NL4MMX + NL4FX:**
(locked on the cable)
Changes gender to male when permanently locked on the cable.

**NA4LJX**

**NL4MM**

**NL8MM**
**speakON Chassis Connector**

- Standard version up to 30 A rms, ultra high current version up to 50 A audio current
- Glass reinforced materials
- Precise keyway for secure mating
- Accurate twist lock latching system
- Metal front plate (8-pole) or metal insert in locking area (2 & 4-pole)
- Various mounting and wiring possibilities
- “Air tight design”, optimized for speaker applications
- D or G panel cutouts to be easily mounted on audio industry standard panels
- 4 pole branded with unique hologram

**NL4MP**

**NL4MPR**

**NL8MPR**

**NL4MD-V**

**NL4MD-H**
• D-size flange
• Compatible PCB layout and panel mount to NL4MD-V-1 (NL4MD-H)
• Cost saving – combines two connectors in one housing
• Mates with all 2, 4-pole speakON® and 1/4" Phone Plugs
• PA-wiring: 1+ is connected to TIP, 1- to the SLEEVE
• PCB layout of NLJ2MD-V is compatible with NL4MD-V and PCB layout of NLJ2MD-H is compatible with NL4MD-H
speakON STX Series Cable Connectors

- Up to 50 A current rating
- Robust and durable all metal housing
- Sealing ring provides weatherproof IP 54 rating in mated condition on 4 pole version
- Reinforced metal quick lock system for ease and precise locking
- Extra large solder contacts for up to 6mm² (AWG10) wires
- Mate with all available speakON products

| NLT4FX-BAG | NLT4MX | NLT8FX |

1. Easy and extremely precise locking system “Quick Look”, reinforced with metal
2. Improved grip on latch
3. 1 piece strain relief, chuck for cables from 9 to 16 mm O.D.
4. Extreme rugged “Touring Approved”
5. Rubber sealing boot
6. Integrated Design garanties “Made by NEUTRIK®”
7. X-large solder contacts for up to 6 mm² (AWG 10) wires

NLT4MX

NLT8FX
Robust metal housing  XL-solder contacts  1/4" flat tabs

speakON® STX Series Chassis Connectors

• Extremely robust metal housing designed for harsh and demanding environment
• Weatherproof design features sealing gaskets
• 4 type range – also male cable connector and female receptacle on 4 pole version
• All-metal housing makes the STX Series rugged and durable
• Weatherproof built-in gasket meets IP 54 protection class (4 pole)
• Ideal product for touring applications and harsh environments
• Best electrical performance up to 50 A audio current
• Uses precise “Quick Lock” system
• Mates with all currently available speakON products
• 4 pole version has UL recognized components, CSA listed

NLT4FP-BAG  NLT4MD-V  NLT4MP-BAG  NLT8MP-BAG

NLT4MP

NLT4FP

NLT8MP

www.neutrik.com
## Technical Data

### Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>SPX Series</th>
<th>STX Series</th>
<th>speakON FC Chassis + Speaker</th>
<th>speakON Adapter</th>
<th>STX Series</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Cable Con.</td>
<td>Cable Con.</td>
<td>Cable Con.</td>
<td>Chassis + Combo</td>
<td>Chassis</td>
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<tr>
<td>Number of contacts:</td>
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<td>4 + 8</td>
<td>2, 4, 8</td>
<td>2, 4, 8</td>
<td>2, 4, 8</td>
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<tr>
<td>Rated current per contact:</td>
<td>40 A rms continuous</td>
<td>30 A</td>
<td>30 A**</td>
<td>15 A</td>
<td>15 A</td>
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<tr>
<td>CSA approved rating:</td>
<td>25 A (4 pole) rms continuous</td>
<td>-</td>
<td>10 A</td>
<td>-</td>
<td>-</td>
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<tr>
<td>50 A audio signal, duty cycle 50%</td>
<td>-</td>
<td>40 A</td>
<td>40 A</td>
<td>30 A</td>
<td>-</td>
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<tr>
<td>Combo:</td>
<td>15 A rms continuous</td>
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<td>-</td>
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<td>Rated insulation voltage:</td>
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<td>Contact resistance after lifetime:</td>
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<td>Insulation resistance after dampheat:</td>
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<td>-</td>
</tr>
<tr>
<td>1/4&quot; Jack:</td>
<td>1.5 kV peak</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Electrical

- **Locking System:** Quick lock (latch)
- **Life time (mating cycles):** > 5'000
- **Cable O.D. range: (mm)**
  - 2 Pole: 6 - 10
  - 4 Pole: 7 - 14.5
  - 8 Pole: 8 - 20
- **Wiring:**
  - Screw type terminals (4 mm² (AWG 12))
  - Soldering (6 mm² (AWG 10), 6 mm² (AWG 10), 4 mm² (AWG 12))
  - Flat tabs for 3/16" FASTON® (4.8 x 0.5 mm)
  - Flat tabs for 1/4" FASTON® (6.3 x 0.8 mm)
  - PCB-version
- **Insertion / withdrawal force:** Combo Jack: ≤ 20 N / > 10 N
- **Cable retention force:** ≥ 220 N*

### Mechanical

- **Housing:** Polyamide PA 6 30% GR
- **Contact plating:** 4 μm Ag
- **Contacting Element:** Zinc diecast (ZnAl4Cu1)
- **Locking Element:** Zinc diecast (ZnAl4Cu1)
- **Chuck:** Polyacetal (POM)
- **Bushing:** Polyamide (PA 6 15% GR)

### Material

- **Insert:** Polyamide PA 6 30% GR
- **Contacts:** Brass (CuSn39Pb3)
- **Spring copper:**
- **Bushing:** Polyacetal (POM)
- **Bushing:** Polyamide (PA 6 15% GR)
- **Contacting Element:** Zinc diecast (ZnAl4Cu1)
- **Chuck:** Polyacetal (POM)
- **Bushing:** Polyamide (PA 6 15% GR)

### Environment

- **Temperature range:** -30 °C to +80 °C
- **Protection class:** IP 54 (mated condition)
- **Flammability:** UL94HB
- **Finger Safety:** IP2X/IEC 61984
- **Approvals:** UL-recognized, CSA listed
- **Solderability:** Complies with IEC 68-2-20

*: subject to cable O.D. and material
**: NL4MD-V-5 - Rated current per contact: 20A
## Ordering Information Cable Connectors

### SPX Series
- **NL4FX** 4 pole: Cable connector with chuck and black bushing
- **NL4FX-2** 4 pole: Cable connector with chuck and red bushing
- **NL4FX-4** 4 pole: Cable connector with chuck and yellow bushing
- **NL4FX-5** 4 pole: Cable connector with chuck and green bushing
- **NL4FX-9** 4 pole: Cable connector with chuck and white bushing
- **NL4FRX** 4 pole: Right-angle cable connector with chuck and black bushing

### FC Series
- **NL2FC** 2 pole: Cable connector with locking ring, integrated cable clamp, intermates with 4 pole chassis connector and makes contact with +1/-1
- **NL4FC** 4 pole: Cable connector with latch lock
- **NL8FC** 8 pole: Cable connector with latch lock

### Adapters
- **NA4LJX** 4/2 pole: Adapter from speakON cable connector to 2 pole 1/4" Jack, wiring: +1 to TIP and -1 to SLEEVE
- **NL4MMX** 4 pole: Lockable coupler to extend two 4 pole cables
- **NL8MM** 8 pole: Coupler to extend two 8-pole cables

### STX Series
- **NLT4FX** 4 pole: Female cable connector, nickel metal housing, chuck and bushing
- **NLT4FX-BAG** 4 pole: Female cable connector, black-chrome metal housing, chuck and bushing
- **NLT4MX** 4 pole: Male cable connector, nickel metal housing, chuck and bushing
- **NLT4MX-BAG** 4 pole: Male cable connector, black-chrome metal housing, chuck and bushing
- **NLT8FX** 8 pole: Female cable connector, nickel metal housing, chuck and bushing
- **NLT8FX-BAG** 8 pole: Female cable connector, black-chrome metal housing, chuck and bushing

### Accessories
- **LCR-*** Colored coding rings for the right-angle version of the SPX Series. Available in blue (Standard), white, red, green and yellow.
- **LRX** Right-angle speakON conversion kit for changing the straight connector into a right-angle version without removing the cable from the insert.
- **NLRR** Strain relief reduction ring for NL4FX for thin loudspeaker cables with an O.D. of 5 to 8 mm
- **BSL-*** Colored bushing for NL4FC
- **BSL-WR** Weather resistant dripboot

*: 0 - Black, 1 - Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White; Must be ordered in multiples of 100.
## Ordering Information

### Chassis Connectors

#### Flange layout:

- **A** D-size standard hole
- **B** D-size mirrored hole position
- **C** G-size flange with four holes

#### Hole layout:

- **D** Thru holes
- **E** Self tapping screw holes (A-screw)
- **F** Metal M3 thread

### Ordering Information

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<th>Pole</th>
<th>Flange size</th>
<th>Flange layout</th>
<th>Hole layout</th>
<th>Color</th>
<th>Wiring</th>
<th>Remarks</th>
</tr>
</thead>
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<td>Traditionally</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>NL2MP</td>
<td>2</td>
<td>D-size</td>
<td>A D</td>
<td>black</td>
<td>3/16” flat tabs*</td>
<td>Does not intermate with 4-pole cable connector</td>
</tr>
<tr>
<td>NL2MD-H</td>
<td>2</td>
<td>D-size</td>
<td>A D</td>
<td>grey</td>
<td>horizontal PCB</td>
<td>Does not intermate with 4-pole cable connector</td>
</tr>
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<td>NL2MD-V</td>
<td>2</td>
<td>D-size</td>
<td>A D</td>
<td>black</td>
<td>vertical PCB</td>
<td>Does not intermate with 4-pole cable connector</td>
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<tr>
<td>NL4MP</td>
<td>4</td>
<td>D-size</td>
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<td>black</td>
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</tr>
<tr>
<td>NL4MP-1</td>
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<td>D-size</td>
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<td>3/16” flat tabs*</td>
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<tr>
<td>NL4MP-2</td>
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<td>D-size</td>
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<td>3/16” flat tabs*</td>
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<td>NL4MP-3</td>
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<td>NL4MP-M3</td>
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<td>D-size</td>
<td>A</td>
<td>black</td>
<td>3/16” flat tabs*</td>
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<tr>
<td>NL4MD-H</td>
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<td>D-size</td>
<td>A E</td>
<td>grey</td>
<td>horizontal PCB</td>
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<td>D-size</td>
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<td>horizontal PCB</td>
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<td>D-size</td>
<td>B E</td>
<td>black</td>
<td>horizontal PCB</td>
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<td>NL4MD-H-3</td>
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<td>D-size</td>
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<td>black</td>
<td>vertical PCB</td>
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<tr>
<td>NL4MD-V-1</td>
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<td>grey</td>
<td>vertical PCB</td>
<td></td>
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<tr>
<td>NL4MD-V-2</td>
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<td>D-size</td>
<td>B E</td>
<td>black</td>
<td>vertical PCB</td>
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<td>NL4MD-V-S</td>
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<td>D-size</td>
<td>A E</td>
<td>black</td>
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<td>NL4MP-ST</td>
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<td>D-size</td>
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<td>screw terminal</td>
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<td>D-size</td>
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<td>1/4” flat tabs*</td>
<td>Ultra high current, up to 40 A rms</td>
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<td>NL8MD-V</td>
<td>8</td>
<td>square G-size flange</td>
<td>C D</td>
<td>Ni</td>
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<td>NL8MD-V-BAG</td>
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<td>black chrome</td>
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<td>STX Series</td>
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<td>1/4” flat tabs*</td>
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<td>C E</td>
<td>nickel</td>
<td>vertical PCB</td>
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<td>solder contacts</td>
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<tr>
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<td>green</td>
<td>horizontal PCB</td>
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</tr>
</tbody>
</table>

*: flat tabs to be used with FASTON® connectors or to solder the wire (FASTON® is a trademark of AMP Inc.)
## Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Screw-1-8</td>
<td>Black self tapping PLASTITE* screw 2.9 x 8 for rear panel mount</td>
</tr>
<tr>
<td>NLFASTON</td>
<td>FASTON* receptacle for tabs with &quot;positiv lock&quot; for use with NL4MP, NL4MPR, NL8MPR, Pack of 100 pcs.</td>
</tr>
<tr>
<td>MFD</td>
<td>M3 mounting frame for D-size chassis</td>
</tr>
<tr>
<td>NDL</td>
<td>dummyPLUG for 2 &amp; 4 Pole chassis connector</td>
</tr>
<tr>
<td>NZP1RU-8</td>
<td>Panel 1RU housing with 8 D-shape cutouts</td>
</tr>
<tr>
<td>NZP1RU-12</td>
<td>Panel 1RU housing with 12 D-shape cutouts</td>
</tr>
<tr>
<td>SCL</td>
<td>Plastic sealing cover to protect the connectors against dust and moisture</td>
</tr>
<tr>
<td>SCDR</td>
<td>Rear end protection cover for D-size chassis connectors</td>
</tr>
<tr>
<td>SCDP-*</td>
<td>D-Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)</td>
</tr>
<tr>
<td>SCDX</td>
<td>Hinged cover seals D-size chassis connectors, IP 42 rated</td>
</tr>
<tr>
<td>SCNL T</td>
<td>Gasket for NLT4MP</td>
</tr>
</tbody>
</table>

(To make a cabinet with an Amphenol EP cutout airtight, use the rubber sealing which covers the entire hole.)
Wiring Suggestion

Positive signal on speaker pin "+" produces positive waveform from driver (moves cone outwards)

"+" = In phase (high) "-" = Ground (out of phase, low)
Lower numbers for lower frequencies.

<table>
<thead>
<tr>
<th>AMPLIFIER</th>
<th>CABLE</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo (*&quot;HiFi&quot;)</td>
<td>one NL4MP socket left channel pins 1+/1- right channel pins 2+/2-</td>
<td>NL4FC on amplifier end, four conductor cable splits into two pairs with NL4FX on each end</td>
</tr>
<tr>
<td>POWER (*&quot;PA&quot;) Standard</td>
<td>three NL4MP sockets &quot;A&quot; socket: left channel pins 1+/1- &quot;B&quot; socket: right channel pins 1+/1-</td>
<td>a two-conductor cable for each channel with NL4FX on both ends</td>
</tr>
<tr>
<td>Bridged mono</td>
<td>&quot;M&quot; socket: left channel pins 1+/1- right channel pins 2+/2-</td>
<td>a special two-conductor cable, on both ends wired to pin 1+/2+ of NL4FX</td>
</tr>
<tr>
<td>Bi-Amp</td>
<td>one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-</td>
<td>a four-conductor cable on both ends wired to pins 1+/1+, 2+/2- of NL4FX</td>
</tr>
<tr>
<td>4 Way System</td>
<td>one NL8MPR socket low frequency pins 1+/1- low mid frequency pins 2+/2- high mid frequency pins 3+/3- high frequency pins 4+/4-</td>
<td>an eight-conductor cable wired on both ends to pins 1+/1-, 2+/2-, 3+/3-, 4+/4- of NL8FC</td>
</tr>
</tbody>
</table>

AMPLIFIER | CABLE | SPEAKER
---|---|---
Power "PA" | 2 channel wiring | two cable
Stereo "HiFi" | "Y" cable
"100V application" | | |