



## Plugs & Jacks

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## Introduction

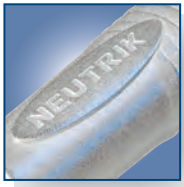
The Neutrik® plug and jack program offers a wide range of professional phone connectors including 1/4", 3.5 mm, MIL/B-gauge style and TT or bantam style plugs. The jack range offers an exceptional "slim" 1/4" PCB jack that is almost 20% smaller than most other designs. The heavy duty M line combines a wide range of options such as three different nose forms and four styles of contacts including 3 PCB and one solder tab. It also includes a 1/4" chassis and cable jack line with the secure locking feature, well known from the XLR range. All jacks are manufactured from strong high-grade thermoplastics and are available in all common versions which make them suitable for audio and industrial applications.

The plug line features:

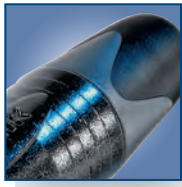
- Mono (TS) and Stereo (TRS) plugs
- Straight and right-angle versions
- Rugged diecast shell in nickel or black chromium
- Nickel or gold plated contacts
- Chuck type strain relief
- Precision machined plugfinger without rivets
- Coloured boots and rings for coding
- Silent Plug for instrument (guitar) applications

All plugs and jacks are specified to IEC 60603-11 and EIA RS-453 or the respective MIL standard.

Neutrik® also offers a special jack version which is a combined 3 pole XLR receptacle and a 1/4" phone jack for balanced mic or line inputs in one XLR shell. This "one for two" panel mount offers substantial cost, labour and material savings. For more information on the Combo products see page 29 and 30 or visit our website at [www.neutrik.com](http://www.neutrik.com).



Neutrik brand



Anti-kink bushing



Chuck type strain relief

## 1/4" Phone Plug - PX and PRX Series



NP2X



NP3X-B



NP3X + PXR-5



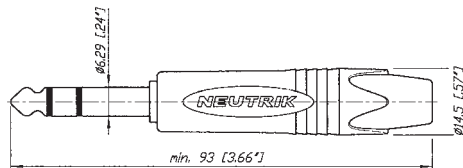
NP3RX-B

- Slim 1/4" plug with million fold proven chuck type strain relief
- Precision machined one piece contacts - no rivets
- Sleek attractive design for best handling convenience
- 14.5 mm only in diameter (right angle 15.4 mm) - serves highest packing density of 15.88 mm jack pitch
- Nickel or gold plugfinger in mono (TS) and stereo (TRS)
- Screwless assembly (PRX series as well)
- L-D version available which accommodates cables O.D. up to 8 mm

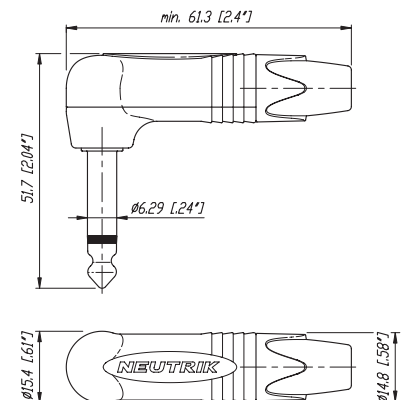
### 15.88 mm jack pitch:



#### NP3X



#### NP2RX





Crystal stones



Robust metal housing



Big bushing for cable up to 10 mm

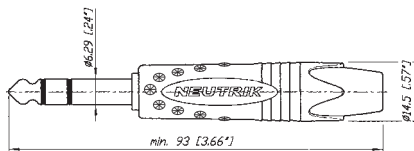
## crystalCON



NP2X-B-CRYSTAL

- Mono 1/4" phone plug embellished with CRYSTALLIZED™ – Swarovski Elements
- Fancy, noble, valuable, attractive package - an eye-catcher

### NP2X-B-CRYSTAL



## jumboPLUG

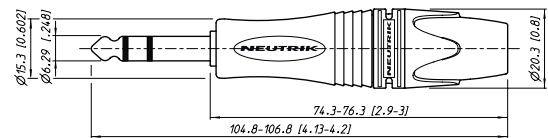
**NEW**

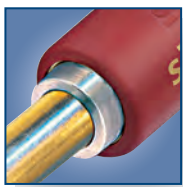


NP2XL

- 2 or 3 pole 1/4" professional phone plug
- Up to 10 mm cable O.D.
- Robust diecast shell in stylish design
- Proven chuck type strain relief for reliable cable retention
- Ergonomic design for best handling convenience
- Precision machined one piece contacts - avoid hook up of tip contact

### NP3XL





Moving magnet



Right angle plug

## Attention!

For use with instrument (guitar) applications only. Damage may occur if connected to amplifier.

## 1/4" Phone Plug - silentPLUG



NP2X-AU-SILENT



NP2RX-AU-SILENT

## Design Criteria

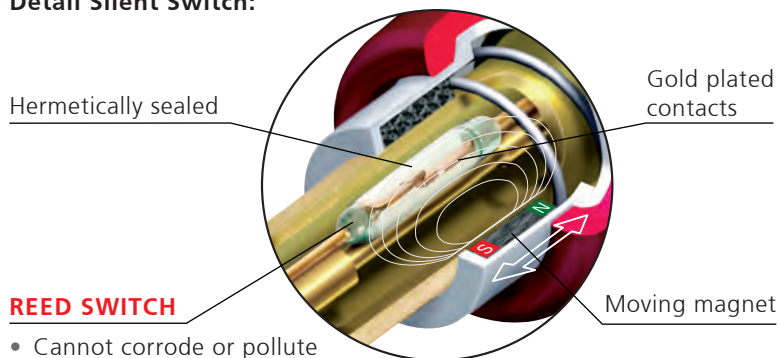
The silentPLUG automatically mutes (shorts) an instrument (guitar) cable to avoid pops and squeals when changing the instrument (guitar) under load.

The integrated silent switch (pat. pending) is based on REED-technology and guarantees a lifetime beyond 10000 mating cycles.

The PX silentPLUG features a rugged metal shell enhanced with a rubber cushion overlay for improved shock protection.

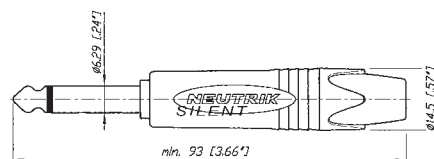
- Avoid pops and squeals
- Hermetically sealed switching contacts
- Lifetime beyond 10'000 mating cycles
- Slim right-angle plug with industry proven and reliable chuck type cable strain relief
- Sleek attractive design for convenient handling and connections
- Rubber overlay on straight housing for best shock-protection and reliability
- L-D version available which accommodates cables O.D. up to 8 mm

## Detail Silent Switch:



- Cannot corrode or pollute
- No wear, constant contact resistance
- Decoupled from switching mechanism

## NP2X-AU-SILENT





Rotary knob to change the timbre



Right angle plug

## 1/4" Guitar Plug - timbrePLUG

**NEW**



NP2RX-TIMBRE

### Design Criteria

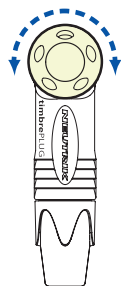
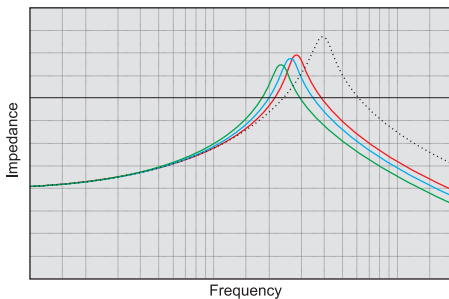
The characteristic sound of a guitar is not only influenced by the guitar (strings, pickups, body) alone but also by the attached instrument cable and the following guitar amp. The timbrePLUG provides the possibility to change the timbre of your guitar sound from neutral, clear sound to warm characteristics.

(not applicable when used with active guitar pickups)

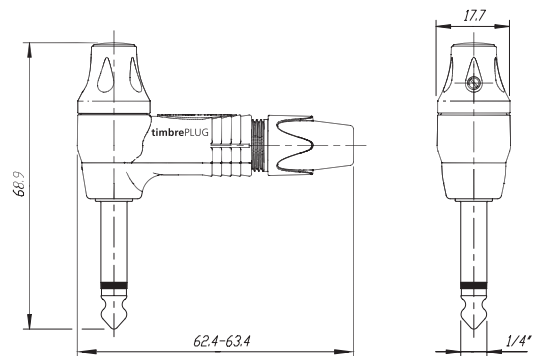
- Standard timbre of your cable plus 3 additional sound characteristics
- Slim right-angle plug with industry proven and reliable chuck type cable strain relief
- Sleek attractive design for convenient handling
- Gold plug finger, precision machined one piece contacts

### timbrePLUG - charakteristic

- neutral position / basic sound characteristic
- position 1 / sound characteristic 1
- position 2 / sound characteristic 2
- position 3 / sound characteristic 3



### NP2RX-TIMBRE





The standard of professional phone plugs



B-Gauge type

## C Series



NP2C + BSP-3

- Available in mono (TS) or stereo (TRS)
- Meets EIA / IEC standards
- Unique plug finger design without rivets
- Sturdy diecast metal shell
- Excellent Neutrik® chuck type strain relief

## MIL/B-Gauge Type Plugs



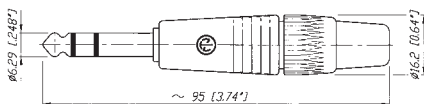
NP3TB-R



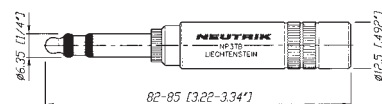
NP3CM-B

- 1/4" "B-Gauge" and "MIL" Type Plugs
- All metal design, chuck type strain relief, no rivets
- Meet all prevailing standards
- Available as plug fingers only for overmolding

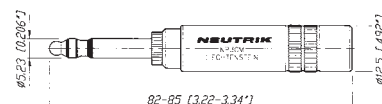
### NP3C



### NP3TB-B



### NP3CM-B





Bantam plug



Dual bantam plug



Gold plated contacts



Easy connector assembly

## 0.173" Bantam Type Miniature Plugs



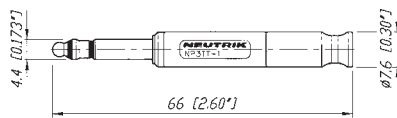
NP3TT-1-B



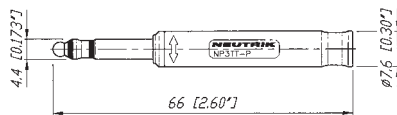
NP3TT-2

- Very robust ergonomic design
- Gold contact version in combination with the NJ3TTA jack eliminates contact problems due to corrosion or dirt
- The single plug NP3TT-P and the dual bantam plug NP3TT-2 are made for assembling with a standard HEX crimping tool as used with coax cables
- Solder termination for T + R, crimp termination for sleeve contact

NP3TT-1



NP3TT-P



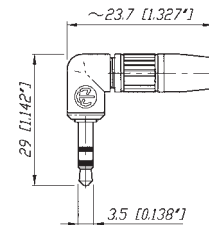
## 3.5 mm Right-Angle Stereo Plug



NTP3RC

- The only available 3.5 mm plug with chuck type strain relief
- All metal housing - reliable and robust
- Easy to assemble, simple to use
- Slim design - space saving
- Excellent cable protection
- All Nickel or black housing, available with gold plated contacts

NTP3RC



## Specifications

|                                                                |                    |                    |                     |
|----------------------------------------------------------------|--------------------|--------------------|---------------------|
| 1/4" Phone Plugs<br>SILENT & CRYSTAL<br>timbrePLUG & jumboPLUG | MIL / B-Gauge Type | 0.173" Bantam Type | 3.5 mm Stereo Plugs |
|----------------------------------------------------------------|--------------------|--------------------|---------------------|

## Electrical

|                        |                             |        |   |   |   |
|------------------------|-----------------------------|--------|---|---|---|
| Rated current:         | depends on mating connector | •      | • | • | • |
| Contact resistance:    | depends on mating connector | •      | • | • | • |
| Insulation resistance: | - initial:                  | > 2 GΩ | • | • | • |
|                        | - after damp heat test:     | ≥ 1 GΩ | • | • | • |
| Dielectric strength    | 1 kV dc                     | •      | • | • | • |

## Mechanical

|                                |                  |                     |                |         |         |
|--------------------------------|------------------|---------------------|----------------|---------|---------|
| Lifetime > 1'000 mating cycles |                  | ●                   | ●              | ●       | ●       |
| Wiring:                        | solder terminals | ●                   | ●              | ●       | ●       |
| Wire size                      | mm <sup>2</sup>  | 1                   | 1 (NP3CM: 0.5) | 0.25    | 0.22    |
|                                | AWG              | 18                  | 18 (NP3CM: 20) | 24      | 24      |
| Cable O.D.:                    | mm               | 4 – 7 (≤ 10: NP*XL) | 4 – 7          | 4 – 4.8 | 2 – 4.5 |

## Materials

|                                                          |                                                     |                                             |                                                          |                                                                      |
|----------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|
| Shell:                                                   | Zinc diecast<br>(ZnAl4Cu1) Ni or<br>black Cr plated | Brass<br>(CuZn39Pb3)<br>black or red coated | Brass (CuZn39Pb3)<br>2 µm Ni (Su) plated<br>PA 6 30 % GR | Zinc diecast<br>(ZnAl4Cu1) Ni or<br>black Cr plated<br>PA 6.6 15% GR |
| Insulation: Polyamide (PA 6.6 30 % GR)                   | •                                                   | •                                           | •                                                        | •                                                                    |
| Contacts: Brass (CuZn39Pb3)<br>2 µm Ni (Su) or Au plated | •                                                   | •                                           | • (Tip: CuSn6)<br>2 µm TRIBOR® (NiP-AuCo)                | •                                                                    |
| Chuck:                                                   | POM                                                 | POM                                         | -                                                        | POM                                                                  |
| Bushing:                                                 | POM + PU                                            | -                                           | -                                                        | CuZn39Pb3 + PU<br>(Ni or black Chrome)                               |
| Rubber shell-overlay:                                    | EPDM                                                | -                                           | -                                                        | -                                                                    |

## Environmental

|                                          |   |   |   |   |
|------------------------------------------|---|---|---|---|
| Temperature range: -20 °C to +65 °C      | • | • | • | • |
| Solderability: Complies with IEC 68-2-20 | • | • | • | • |

| Part Number | Shell | Contacts | Standards<br>Compatibility | Remarks |
|-------------|-------|----------|----------------------------|---------|
|-------------|-------|----------|----------------------------|---------|

## 1/4" Professional Phone Plugs - PX and PRX Series

|          |           |          |        |                           |                                               |
|----------|-----------|----------|--------|---------------------------|-----------------------------------------------|
| NP2X     | NP2RX     | Nickel   | Nickel | IEC 60603-11 / EIA RS-453 | Mono plug, black bushing                      |
| NP2X-BAG | NP2RX-BAG | Black Cr | Nickel | ●                         | Mono plug, black bushing                      |
| NP2X-B   | NP2RX-B   | Black Cr | Gold   | ●                         | Mono plug, black bushing                      |
| NP3X     | NP3RX     | Nickel   | Nickel | ●                         | Stereo plug, black bushing                    |
| NP3X-BAG | NP3RX-BAG | Black Cr | Nickel | ●                         | Stereo plug, black bushing                    |
| NP3X-B   | NP3RX-B   | Black Cr | Gold   | ●                         | Stereo plug, black bushing                    |
| *-D      | *-D       |          |        |                           | Bulk packed to be ordered in multiples of 100 |

## silentPLUG - Guitar Plug

|                 |                |      |                           |                                      |
|-----------------|----------------|------|---------------------------|--------------------------------------|
| NP2X-AU-SILENT  | Rubber overlay | Gold | IEC 60603-11 / EIA RS-453 | Mono plug, silent switch             |
| NP2RX-AU-SILENT | red coated     | Gold | IEC 60603-11 / EIA RS-453 | Right angle mono plug, silent switch |

## timbrePLUG - special Guitar Plug

|              |            |      |                           |                                      |
|--------------|------------|------|---------------------------|--------------------------------------|
| NP2RX-TIMBRE | red coated | Gold | IEC 60603-11 / EIA RS-453 | Right angle mono plug, timbre switch |
|--------------|------------|------|---------------------------|--------------------------------------|

## crystalCON - 1/4" Professional Phone Plug

|                |          |      |                           |                                                                            |
|----------------|----------|------|---------------------------|----------------------------------------------------------------------------|
| NP2X-B-CRYSTAL | Black Cr | Gold | IEC 60603-11 / EIA RS-453 | Mono plug, black bushing, equipped with CRYSTALLIZED™ – Swarovski Elements |
|----------------|----------|------|---------------------------|----------------------------------------------------------------------------|

## jumboPLUG - 1/4" plug for thick instrument and loudspeaker cables

|       |        |        |                           |                            |
|-------|--------|--------|---------------------------|----------------------------|
| NP2XL | Nickel | Nickel | IEC 60603-11 / EIA RS-453 | Mono plug, black bushing   |
| NP3XL | Nickel | Nickel | ●                         | Stereo plug, black bushing |

## 1/4" Professional Phone Plugs - PC Series

|               |                        |                  |                           |                                                                                                      |
|---------------|------------------------|------------------|---------------------------|------------------------------------------------------------------------------------------------------|
| NP2C          | Nickel                 | Nickel           | IEC 60603-11 / EIA RS-453 | Mono plug, black bushing                                                                             |
| NP2C-BAG      | Black Cr               | Nickel           | ●                         | Mono plug, black bushing                                                                             |
| NP2C/B        | Black Cr               | Gold             | ●                         | Mono plug, black bushing and gold contacts                                                           |
| NP3C          | Nickel                 | Nickel           | ●                         | Stereo plug, black bushing                                                                           |
| NP3C-BAG      | Black Cr               | Nickel           | ●                         | Stereo plug, black bushing                                                                           |
| NP3C/B        | Black Cr               | Gold             | ●                         | Stereo plug, black bushing and gold contacts                                                         |
| NP2C-BAG-T-AU | Black Cr               | Nickel + T: Gold | ●                         | Mono plug, black bushing with gold tip                                                               |
| NP2C-T10AA    | Nickel                 | Nickel           | ●                         | Mono plug, red bushing, with built-in 1:10 transformer to convert microphone levels to guitar inputs |
| NP2RCS        | Nickel + black plastic | Nickel           | ●                         | Mono right-angle plug, black bushing                                                                 |
| NP3RCS        | Nickel + black plastic | Nickel           | ●                         | Stereo right-angle plug, black bushing                                                               |
| NP*C-D        |                        |                  |                           | Bulk packed to be ordered in multiples of 100                                                        |

## MIL/B-gauge Type Phone Plugs

|         |       |        |                |                                  |
|---------|-------|--------|----------------|----------------------------------|
| NP3TB-B | Black | Nickel | B-GAUGE BP0316 | 1/4" B-Gauge plug                |
| NP3TB-R | Red   | Nickel | ●              | 1/4" B-Gauge plug                |
| NP3TM-B | Black | Nickel | MIL-P-642/2    | 1/4" MIL plug                    |
| NP3TM-R | Red   | Nickel | ●              | 1/4" MIL plug                    |
| NP2CM-B | Black | Brass  | MIL-P-642/4    | Mono 1/4" MIL plug               |
| NP2CM-R | Red   | Brass  | ●              | Mono 1/4" MIL plug               |
| NP3CM-B | Black | Brass  | MIL-P642/5A    | Stereo 5.23 mm (0.206") MIL plug |
| NP3CM-R | Red   | Brass  | ●              | Stereo 5.23 mm (0.206") MIL plug |

| Part Number | Shell | Contacts | Standards<br>Compatibility | Remarks |
|-------------|-------|----------|----------------------------|---------|
|-------------|-------|----------|----------------------------|---------|

## 0.173" Bantam Type Miniature Plugs

|              |                        |        |              |                                                                     |
|--------------|------------------------|--------|--------------|---------------------------------------------------------------------|
| NP3TT-1-B    | Nickel + black plastic | Nickel | MIL-P-642/13 | 4.4 mm (0.173") Bantam plug with solder contacts, black sleeve      |
| NP3TT-1-R    | Nickel + red plastic   | Nickel | •            | 4.4 mm (0.173") Bantam plug with solder contacts, red sleeve        |
| NP3TT-AU-B   | Nickel + black plastic | Gold   | •            | 4.4 mm (0.173") Bantam plug with solder contacts, black sleeve      |
| NP3TT-AU-R   | Nickel + red plastic   | Gold   | •            | 4.4 mm (0.173") Bantam plug with solder contacts, red sleeve        |
| NP3TT-P-B    | Black plastic          | Nickel | •            | 4.4 mm (0.173") Bantam plug with solder contacts, black sleeve      |
| NP3TT-P-R    | Red plastic            | Nickel | •            | 4.4 mm (0.173") Bantam plug with solder contacts, red sleeve        |
| NP3TT-P-AU-B | Black plastic          | Gold   | •            | 4.4 mm (0.173") Bantam plug with solder contacts, black sleeve      |
| NP3TT-P-AU-R | Red plastic            | Gold   | •            | 4.4 mm (0.173") Bantam plug with solder contacts, red sleeve        |
| NP3TT-2      | Black plastic          | Nickel | •            | 4.4 mm (0.173") Twin Bantam plug with solder contacts, black sleeve |

## 3.5 mm Right-Angle Stereo Plug

|          |          |        |              |                                          |
|----------|----------|--------|--------------|------------------------------------------|
| NTP3RC   | Nickel   | Nickel | IEC 60603-11 | 3.5 mm audio plug with chuck and bushing |
| NTP3RC-B | Black Cr | Gold   | IEC 60603-11 | 3.5 mm audio plug with chuck and bushing |

## Accessories



BSP-\*



BPX-\*



BSTT-\*



BSTP-\*



PXR-\*



PCR-\*

|        |                                                       |
|--------|-------------------------------------------------------|
| BSP-*  | Colored bushing for NP*C Series                       |
| BPX-*  | Colored bushing for NP*X Series                       |
| BPX-L  | Large bushing for NP*X Series up to 8.0 mm cable O.D. |
| BSTT-* | Colored sleeves for NP3TT Series                      |
| BSTP-* | Colored sleeves for NP3TT-P Series                    |
| PXR-*  | Colored marking rings for NP*X Series                 |
| PCR-*  | Colored marking rings for NP*C Series                 |

\*: Must be ordered in multiples of 100.

|       |       |     |        |        |       |      |        |      |       |
|-------|-------|-----|--------|--------|-------|------|--------|------|-------|
| Black | Brown | Red | Orange | Yellow | Green | Blue | Violet | Grey | White |
| 0     | 1     | 2   | 3      | 4      | 5     | 6    | 7      | 8    | 9     |

## Assembly tool



HX-TT-1



HX-R-BNC



HX-R-BNC-PJ



HTXP



HTPXS

|              |                                            |
|--------------|--------------------------------------------|
| HX-TT-1      | Assembly and crimp tool for NP3TT-1/AU     |
| HX-R-BNC     | HEX crimp tool for NP3TT-P*                |
| DIE-R-BNC-PJ | HEX crimp die for NP3TT-P* (5.4 mm)        |
| HTXP         | Hand tool to tighten the PX and XX-bushing |
| HTPXS        | Hand tool to hold shell of PX Plug         |



1/4" cable jack with locking



Neutrik cable retention

## Locking 1/4" Cable Jacks



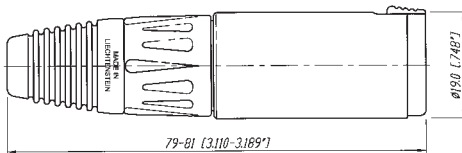
NJ3FC6



NJ3FC6-BAG

- Securely locking cable jack
- Mates with all mono or stereo plugs specified to EIA RS-453
- Extremely robust and reliable
- Excellent Neutrik cable retention
- Coloured boots available in 10 colours
- For cable O.D. up to 8 mm

### NJ3FC6





Release latch

## Locking 1/4" Chassis Jacks



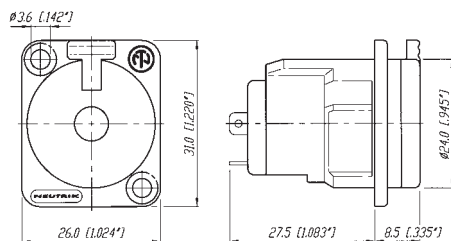
NJ3FP6C



NJ3FP6C-BAG

- Mates with all mono or stereo plugs specified to EIA RS-453
- Dimensionally compatible with D Series (31 x 26 mm)
- Securely locking chassis jack
- Solder terminals
- Special version with black plastic shell
- Choice of grounding option (see on [www.neutrik.com](http://www.neutrik.com))

### NJ3FP6C





Snapping cap



Solder tags

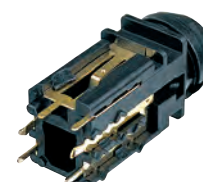
## 1/4" Vertical Jacks



NJ\*FD-V



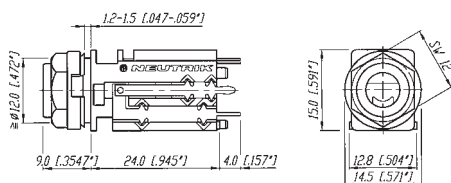
NJ6TB-V



- Neutrik 1/4" Vertical PCB Jacks come in either standard 1/4" (FD) or mil gauge (TB) versions
- They feature a snap on/twist off cap which drastically reduces assembly times
- Retention force is provided by a special spring element independent of the contacts which results in optimal contact force with minimal contact wear
- Gold plated contact area for long durability and reliable, corrosion free operation

- High packing density compact design allows for more jacks in less space
- Available in Stereo switching and non-switching versions, and Mono non-switching version
- Over 10,000 insertion/withdrawal cycles

### NJ\*FD-V



\*: 2, 3, 5, 6



Half threaded nose



Chrome ferrule



Plastic nut

## M Jacks



NMJ4HHD2



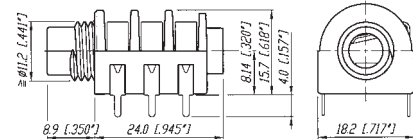
NMJ2HC-S



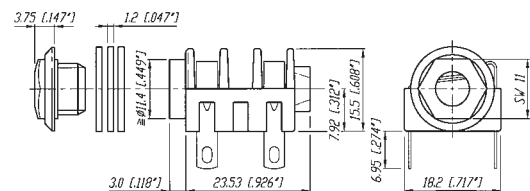
NMJ6HFD2

- Wide body and extremely durable contacts
- Available in all common versions:
  - mono
  - stereo
  - switched
  - unswitched
- Hardwire and PCB version
- Nose type in
  - half threaded
  - fully threaded
  - chrome ferrule
- Full threaded and chrome nose M Jacks are supplied with washer and fixing nut
- Mounting hardware for half threaded nose must be ordered separately
- Fascia appearance in plastic or chrome

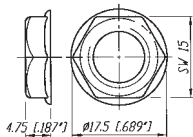
NMJ6HHD2



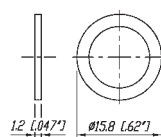
NMJ4HC-S



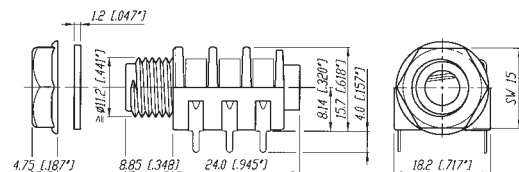
NRJ-NUT-B



NRJ-WB (washer)



NMJ6HFD2





Half threaded nose



Chrome nose



Chassis ground contact



Gold plated contact

## Slim Jacks



NRJ4HH-1



NRJ6HF-1



NRJ6HM-1



NRJ-NUT-B



NRJ-NUT-MK



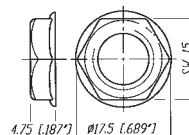
NRJ-NUT-MS



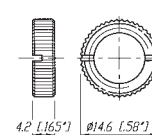
NRJ-NUT-MN  
(Metal Nose only)

- High board packing densities
- Nose type in
  - half thread
  - fully threaded
  - metal
- \*-1 versions meet the requirements of EMC rules through efficient chassis grounding system
- Retention spring ensures optimum grip on inserted plugs, avoiding the chance of lost connection
- All Slim line jacks have PCB horizontal mount pins
- Mounting nuts in different versions available - must be ordered separately

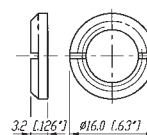
NRJ-NUT-B



NRJ-NUT-MK

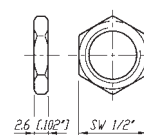


NRJ-NUT-MS

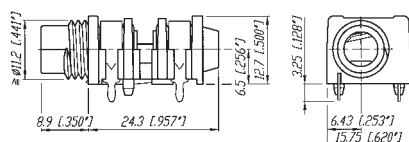


NRJ-NUT-MN

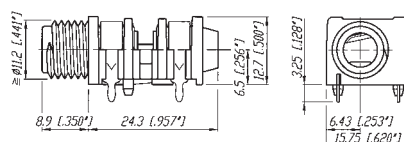
(Only compatible with metal nose).  
Thread pitch is a 3/8" 32 UNEF 2A.



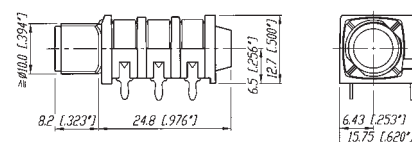
NRJ4HH-1



NRJ4HF-1



NRJ6HM-1





Plane nose



Quick fix nose



Quick fix nut

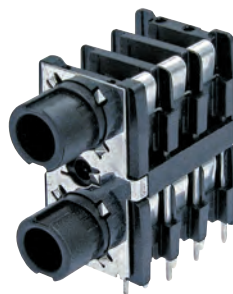


Fully threaded nose

## Stacking Jacks



NSJ8HC



NSJ12HL



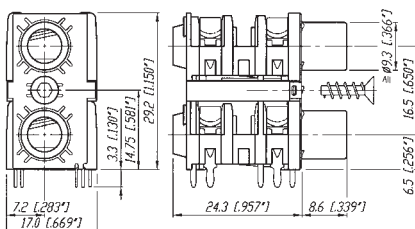
NSJ12HH-1



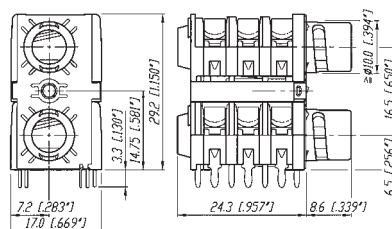
NSJ12HF-1

- Mono and stereo dual slim jack socket for PCB mounting with switch contacts
- Mounting method by either two quick fix or threaded nuts or one single center screw
- Highest board packing density as two jacks are in a single footprint, fit in 1 RU
- Version in fully and half threaded nose, full nose, quick-fit and plane

NSJ8HC

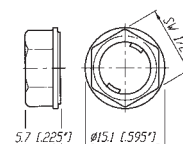


NSJ12HL

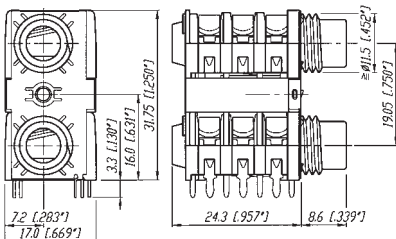


NSJ-NUT-B

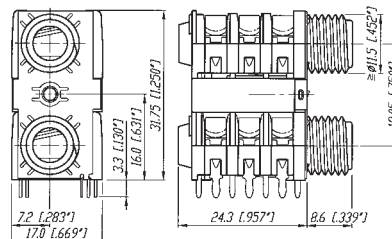
(Quick fix nut)



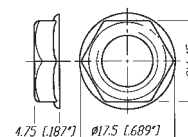
NSJ12HH-1



NSJ12HF-1



NRJ-NUT-B



## Specifications

Vertical  
Jack

Locking  
Cable & Chassis  
Jack

M Jack

Slim Jack

Stacking  
Jack

## Electrical

|                              |                  |               |        |              |              |              |
|------------------------------|------------------|---------------|--------|--------------|--------------|--------------|
| Contact resistance           | - initial        | < 10 mΩ       | < 6 mΩ | < 15 mΩ      | < 10 mΩ      | -            |
|                              | - Top row        | -             | -      | -            | -            | < 15 mΩ      |
|                              | - Bottom row     | -             | -      | -            | -            | < 10 mΩ      |
| Switch contact resistance    | - for silver     | -             | -      | < 30 mΩ      | < 25 mΩ      | -            |
|                              | - for gold       | < 15 mΩ       | -      | -            | < 10 mΩ      | -            |
|                              | - Top row        | -             | -      | -            | -            | < 15 mΩ      |
|                              | - Bottom row     | -             | -      | -            | -            | < 10 mΩ      |
| Insulation resistance        | ≥ 1GΩ @ 500 V dc | ●             | ●      | ●            | ●            | ●            |
| Dielectric strength          | 1 kV dc          | ●             | ●      | ●            | ●            | ●            |
| Rated current                |                  | 3 A           | 10 A   | 3 A          | 3 A          | 3 A          |
| Rated switch contact current |                  | 0.25 A @ 12 V | N/A    | 0.5 A @ 50 V | 0.5 A @ 50 V | 0.5 A @ 50 V |

## Mechanical

|                              |                  |                              |                  |                 |                 |                 |
|------------------------------|------------------|------------------------------|------------------|-----------------|-----------------|-----------------|
| Lifetime                     | > 10'000 cycles  | ●                            | ●                | ●               | ●               | ●               |
| Insertion / withdrawal force |                  | < 10 N / > 8 N               | < 20 N / < 20N   | < 20 N / > 10 N | < 20 N / > 10 N | < 20 N / > 10 N |
| Cap opening torque           |                  | 25 N cm / 9.84 N in          | -                | -               | -               | -               |
| Locking force                |                  | -                            | > 80 N           | -               | -               | -               |
| Wire size                    |                  | -                            | 1 mm² / 18 AWG ① | -               | -               | -               |
| Cable O.D. (FC6 only)        |                  | -                            | 3.5 - 8.0 mm     | -               | -               | -               |
| Panel thickness              |                  | 1.2 - 1.5 mm [0.047 - 0.06"] | -                | -               | -               | -               |
|                              | - Full nose type | -                            | -                | < 3.0 mm        | < 3.0 mm        | -               |
|                              | - Half nose type | -                            | -                | < 1.0 mm        | < 1.0 mm        | -               |
|                              | - Chrome nose    | -                            | -                | < 4.7 mm        | -               | -               |
|                              | - NSJ*HL         | -                            | -                | -               | -               | 1.0 - 1.6 mm    |
|                              | - NSJ*HC         | -                            | -                | -               | -               | > 1.0 mm        |

## Material

|                    |                |               |                       |               |                         |                   |
|--------------------|----------------|---------------|-----------------------|---------------|-------------------------|-------------------|
| Shell / Handle     |                | PA 6.6 30% GR | ZnAl4Cu1              | PA 6.6 15% GR | PA 6 15% GR             | PA 6 15% GR       |
|                    | - FP6P         | -             | Ni or black           | -             | -                       | -                 |
| Insulation         |                | -             | PA 6.6 30% GR         | -             | -                       | -                 |
| Contacts           |                | CuSn6         | CuBe2/CuZn37 (ground) | Ni-Silver     | CuSn6                   | CuSn6             |
| Contact surface    |                | 0.2 μm Au     | 2 μm Ag               | -             | gal 2 μm Ag / 0.2 μm Au | gal 2 μm Ag       |
| Cap / Nut / Washer |                | POM           | -                     | PA 6.6 15% GR | PA 6.6 15% GR           | PA 6.6 15% GR     |
| Ring Nut           |                | -             | -                     | -             | Brass (Ni plated)       | Brass (Ni plated) |
| Chuck              |                | -             | POM                   | -             | -                       | -                 |
| Bushing            |                | -             | PA 6.6 15% GR + PUR   | -             | -                       | -                 |
| Temperature range  | -25°C to +70°C | ●             | ●                     | ●             | ●                       | ●                 |

①... max. for soldering tag

## Environmental

|                                         |  |       |   |   |   |   |
|-----------------------------------------|--|-------|---|---|---|---|
| Solderability complies with IEC 68-2-20 |  | ●     | ● | ● | ● | ● |
| Standard Compatibility                  |  |       |   |   |   |   |
| EIA RS 453 + IEC 60603-11               |  | NJ*FD | ● | ● | ● | ● |
| B-GAUGE BPO 316, MIL-J-641/3            |  | NJ*TB | - | - | - | - |

## Circuits:

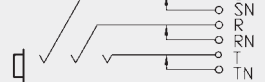
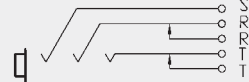
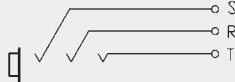
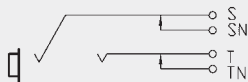
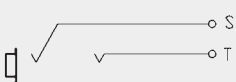
Mono unswitched

Mono switched

Stereo unswitched

2x switching  
(normalling) Stereo

3x switching  
(normalling) Stereo



| Part Number | Shell | Contacts | Terminations | Standards<br>Compatibility | Remarks |
|-------------|-------|----------|--------------|----------------------------|---------|
|-------------|-------|----------|--------------|----------------------------|---------|

## Slim Jack

### PCB Mount Sockets - Switched

|             |                 |        |                      |                         |                                                                          |
|-------------|-----------------|--------|----------------------|-------------------------|--------------------------------------------------------------------------|
| NRJ3HF-1    | Black/Plastic   | Silver | Horizontal PCB mount | IEC 60603-11/EIA RS 453 | Mono, full threaded nose, chassis ground contact                         |
| NRJ4HF      | ●               | ●      | ●                    | ●                       | Mono, full threaded nose                                                 |
| NRJ4HF-1    | ●               | ●      | ●                    | ●                       | Mono, full threaded nose, chassis ground contact                         |
| NRJ6HF      | ●               | ●      | ●                    | ●                       | Stereo, full threaded nose                                               |
| NRJ6HF-1    | ●               | ●      | ●                    | ●                       | Stereo, full threaded nose, chassis ground contact                       |
| NRJ4HH      | ●               | ●      | ●                    | ●                       | Mono, half threaded nose                                                 |
| NRJ4HH-1    | ●               | ●      | ●                    | ●                       | Mono, half threaded nose, chassis ground contact                         |
| NRJ6HH      | ●               | ●      | ●                    | ●                       | Stereo, half threaded nose                                               |
| NRJ6HH-1    | ●               | ●      | ●                    | ●                       | Stereo, half threaded nose, chassis ground contact                       |
| NRJ6HF-AU   | ●               | Gold   | ●                    | ●                       | Stereo, full threaded nose, gold plated contacts                         |
| NRJ6HF-1-AU | ●               | Gold   | ●                    | ●                       | Stereo, full threaded nose, chassis ground contact, gold plated contacts |
| NRJ6HH-AU   | ●               | Gold   | ●                    | ●                       | Stereo, half threaded nose, gold plated contacts                         |
| NRJ-NUT-B   | ●               | -      | -                    | -                       | Hexagonal black plastic nut                                              |
| NRJ-NUT-R   | Red/Plastic     | -      | -                    | -                       | Hexagonal red plastic nut                                                |
| NRJ-NUT-MK  | Metal/Ni plated | -      | -                    | -                       | Metal ring nut, knurled                                                  |
| NRJ-NUT-MS  | Metal/Ni plated | -      | -                    | -                       | Metal ring nut                                                           |

### PCB Mount Sockets - Switched with Metal Nose

|             |               |        |                      |                         |                                                   |
|-------------|---------------|--------|----------------------|-------------------------|---------------------------------------------------|
| NRJ6HM-1    | Black/Plastic | Silver | Horizontal PCB mount | IEC 60603-11/EIA RS 453 | Stereo, metal threaded nose                       |
| NRJ6HM-1-AU | ●             | Gold   | ●                    | ●                       | Stereo, metal threaded nose, gold plated contacts |
| NRJ-NUT-MN  | Metal         | -      | -                    | -                       | Hexagonal metal nut (for metal nose jack only)    |

## Stacking Jack

|           |                    |        |                      |                         |                        |
|-----------|--------------------|--------|----------------------|-------------------------|------------------------|
| NSJ8HL    | Polyamid PA 6.6 GR | Silver | Horizontal PCB mount | IEC 60603-11/EIA RS 453 | Mono, quick fix nose   |
| NSJ12HL   | ●                  | ●      | ●                    | ●                       | Stereo, quick fix nose |
| NSJ8HC    | ●                  | ●      | ●                    | ●                       | Mono, full nose        |
| NSJ12HC   | ●                  | ●      | ●                    | ●                       | Stereo, full nose      |
| NSJ12HF-1 | ●                  | ●      | ●                    | ●                       | Full threaded nose     |
| NSJ12HH-1 | ●                  | ●      | ●                    | ●                       | Half threaded nose     |
| NSJ-NUT-B | Black/Plastic      | -      | -                    | -                       | Quick fix nut          |

All Slim jacks are for PCB mount only.

Mounting nuts must be ordered separately, except for Stacking Jack type NSJ8HL and NSJ12HL.

### Ordering Key:

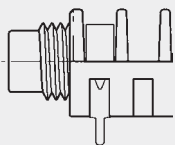
**NRJ\*H** NEUTRIK Jack Horizontal

**H** half threaded nose  
**F** full threaded nose  
**L** quick fix nose  
**M** metal threaded nose  
**C** plane nose  
**-1** chassis ground contact

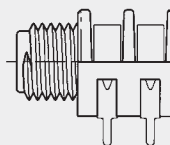
**\*** number of contacts:

**2** mono unswitched  
**4** mono switched  
**6** stereo switched  
**8** mono stacking jack  
**12** stereo stacking jack

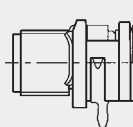
**Nose: -H**



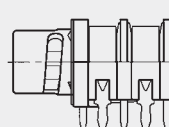
**-F**



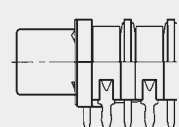
**-M**



**-L**



**-C**



| Part Number | Shell | Contacts | Terminations | Standards Compatibility | Remarks |
|-------------|-------|----------|--------------|-------------------------|---------|
|-------------|-------|----------|--------------|-------------------------|---------|

## 1/4" Locking Jack

|             |               |        |                |                         |                 |
|-------------|---------------|--------|----------------|-------------------------|-----------------|
| NJ3FC6      | Nickel        | Silver | Wire soldering | IEC 60603-11/EIA RS 453 | Cable Jack      |
| NJ3FC6-BAG  | Black         | •      | •              | •                       | •               |
| NJ3FP6C     | Nickel        | •      | •              | •                       | Chassis Jack    |
| NJ3FP6C-B   | Black         | Gold   | •              | •                       | •               |
| NJ3FP6C-BAG | Black         | Silver | •              | •                       | •               |
| NJ3FP6F-P   | Nickel        | •      | •              | •                       | •               |
| NJ3FP6P-BAG | Black/Plastic | •      | •              | •                       | Plastic Chassis |

## Accessories



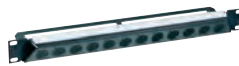
DSS



SCDR



NDJ



NZP1RU-12



SCDX



SCDP-\*

|           |                                                         |        |                                                               |
|-----------|---------------------------------------------------------|--------|---------------------------------------------------------------|
| NZP1RU-8  | Panel 1RU housing with 8 D-shape cutouts                | NDJ    | dummyPLUG for 1/4" chassis jack                               |
| NZP1RU-12 | Panel 1RU housing with 12 D-shape cutouts               | SCDX   | Hinged cover seals locking 1/4 chassis jack, IP42 rated       |
| DSS-*     | Lettering plate, colored plastic                        | SCDP-* | D-Size sealing gaskets, color coding                          |
| SCDR      | Rear end protection cover for locking 1/4" chassis jack |        | (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white) |

## 1/4" Vertical Jack

|         |               |      |                    |                            |                                                         |
|---------|---------------|------|--------------------|----------------------------|---------------------------------------------------------|
| NJ2FD-V | Black/Plastic | Gold | Vertical PCB mount | IEC 60603-11/EIA RS 453    | Non-switching Mono Jack (T/S)                           |
| NJ3FD-V | •             | •    | •                  | •                          | Non-switching Stereo Jack (T/R/S)                       |
| NJ5FD-V | •             | •    | •                  | •                          | 2 x switching (normalling) Stereo jack (T/TN/R/RN/S)    |
| NJ6FD-V | •             | •    | •                  | •                          | 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) |
| NJ6TB-V | •             | •    | •                  | B-Gauge BPO316 Mil-J-641/3 | 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) |

## M Jack

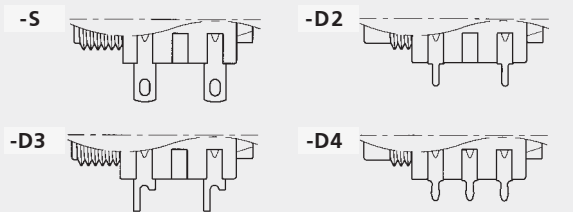
|          |               |        |                      |                         |                                                                         |
|----------|---------------|--------|----------------------|-------------------------|-------------------------------------------------------------------------|
| NMJ2HF-S | Black/Plastic | Silver | Horizontal PCB mount | IEC 60603-11/EIA RS 453 | Mono, unswitched, full threaded nose, solder tags                       |
| NMJ3HF-S | •             | •      | •                    | •                       | Stereo, unswitched, full threaded nose, solder tags                     |
| NMJ4HF-S | •             | •      | •                    | •                       | Mono, switched, full threaded nose, solder tags                         |
| NMJ2HC-S | •             | •      | •                    | •                       | Mono, unswitched, Chrome ferrule, solder tags                           |
| NMJ4HC-S | •             | •      | •                    | •                       | Mono, switched, Chrome ferrule, solder tags                             |
| NMJ4HFD2 | •             | •      | •                    | •                       | Mono, switched, full threaded nose, PCB mount                           |
| NMJ4HFD3 | •             | •      | •                    | •                       | Mono, switched, full threaded nose, offset PCB mount                    |
| NMJ4HCD2 | •             | •      | •                    | •                       | Mono, switched, Chrome ferrule, PCB mount,                              |
| NMJ4HHD2 | •             | •      | •                    | •                       | Mono, switched, half threaded nose, PCB mount, without nut and washer   |
| NMJ6HF-S | •             | •      | •                    | •                       | Stereo, switched, full threaded nose, solder tags                       |
| NMJ6HC-S | •             | •      | •                    | •                       | Stereo, switched, Chrome ferrule, solder tags                           |
| NMJ6HCD2 | •             | •      | •                    | •                       | Stereo, switched, Chrome ferrule, PCB mount                             |
| NMJ6HHD2 | •             | •      | •                    | •                       | Stereo, switched, half threaded nose, PCB mount, without nut and washer |
| NMJ6HFD2 | •             | •      | •                    | •                       | Stereo, switched, full threaded nose, PCB mount                         |
| NMJ6HFD3 | •             | •      | •                    | •                       | Stereo, switched, full threaded nose, offset PCB mount                  |
| NMJ6HCD3 | •             | •      | •                    | •                       | Stereo, switched, Chrome ferrule, offset PCB mount                      |
| NMJ6HFD4 | •             | •      | •                    | •                       | Stereo, switched, full threaded nose, tear drop PCB mount               |

Full threaded and Chrome nose M-Jacks are supplied with fixing nut and washers. Mounting hardware for half threaded nose must be ordered separately.

## Ordering Key:

|              |                           |
|--------------|---------------------------|
| <b>NMJ*H</b> | NEUTRIK M Jack Horizontal |
| <b>H</b>     | half threaded nose        |
| <b>F</b>     | fully threaded nose       |
| <b>C</b>     | chrome nose               |
| <b>-S</b>    | solder tag                |
| <b>D2</b>    | PCB pins 02               |
| <b>D3</b>    | PCB pins 03               |
| <b>D4</b>    | PCB pins 04               |

|          |                         |
|----------|-------------------------|
| <b>*</b> | number of contacts:     |
| <b>2</b> | mono unswitched         |
| <b>3</b> | stereo unswitched       |
| <b>4</b> | mono switched           |
| <b>5</b> | stereo switched (T/S)   |
| <b>6</b> | stereo switched (T/R/S) |

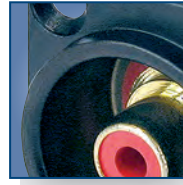




Gold plated contacts



Soft-touch surface



Phono socket

## Profi® RCA Series



NF2C-B2

- Makes ground before signal contact and breaks signal before ground
- No more disturbing noise and broken speaker cones
- Precisely machined to our demanding quality standards
- Neutrik unique chuck type strain relief
- Gold plated contacts
- Sleek barrel with soft touch surface and coloured shrink sleeve
- Improved ground solder lug for ease soldering

## Phono Socket



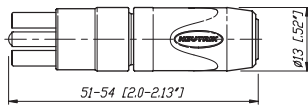
NF2D-4



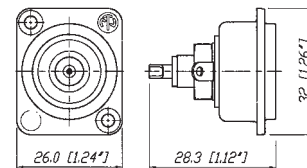
NF2D-B-6

- Precisely machined to our demanding quality standards
- Gold plated contacts

### NF2C-B2



### NF2D-\*



\*: available in 9 colors see page 59

| Specification |  | Profi® | Phono Socket |
|---------------|--|--------|--------------|
|---------------|--|--------|--------------|

## Electrical

|                            |                     |           |           |
|----------------------------|---------------------|-----------|-----------|
| Rated current per contact  | 16 A rms continuous | ●         | ●         |
| Rated insulation voltage   | 50 V ac             | ●         | ●         |
| Insulation resistance      |                     | > 100 GΩ  | < 5 GΩ    |
| Dielectric strength        |                     | 1.5 kV dc | 0.5 kV dc |
| Capacitance (pin to shell) |                     | 7 pf      | 9 pf      |

## Mechanical

|                           |                                   |   |   |
|---------------------------|-----------------------------------|---|---|
| Life time (mating cycles) | > 2000                            | ● | ● |
| Cable O.D. range          | 3.0 - 7.3 mm                      | ● | - |
| Wiring                    | soldering                         | ● | ● |
| Max. wire size            | 2.5 mm <sup>2</sup> / 14 AWG      | ● | - |
| Cable anchoring           | Neutrik® chuck type strain relief | ● | - |

## Material

|                 |                             |   |   |
|-----------------|-----------------------------|---|---|
| Housing         | Brass (CuZn39Pb3)           | ● | - |
|                 | Zinc diecast (ZnAlCu1)      | - | ● |
| Insert          | PBTP 20% GR                 | ● | - |
| Contacts        | Brass (CuZn39Pb3)           | ● | ● |
| Contact plating | 5 µm Au plated over 5 µm Ni | ● | ● |
| Chuck           | Polyacetal (POM)            | ● | - |

## Environment

|                   |                           |   |   |
|-------------------|---------------------------|---|---|
| Temperature range | -30°C to +80°C            | ● | ● |
| Protection class  | IP 40                     | ● | ● |
| Flammability      | UL 94 HB                  | ● | ● |
| Solderability     | complies with IEC 68-2-20 | ● | ● |

## Ordering Information

### Phono Profi®

|         |                                                                                                                                          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------|
| NF2C-B2 | Professional "phono Plug" (RCA or CINCH type), two plugs with red and black coding, two strain relief chucks for a second cable diameter |
|---------|------------------------------------------------------------------------------------------------------------------------------------------|

### Phono (RCA) Socket

|                                                                                                                             |                                                     |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| NF2D-*                                                                                                                      | Chassis Phono (RCA) socket in D Shape housing       |
| NF2D-B-*                                                                                                                    | Chassis Phono (RCA) socket in black D Shape housing |
| * color coding: 0 - Black, 1 - Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White |                                                     |

## Accessories

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| NDP       | Dummy plug for phone socket                                                                         |
| NZP1RU-8  | Panel 1RU housing with 8 D-shape cutouts                                                            |
| NZP1RU-12 | Panel 1RU housing with 12 D-shape cutouts                                                           |
| SCL       | Plastic sealing cover to protect the connector sockets against dust and moisture                    |
| SCDP-*    | D-Size sealing gaskets, colour coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white) |
| SCDX      | Hinged cover seals D-size chassis connectors, IP54 rated                                            |



Easy housing

## plug2PLUG

**NEW**



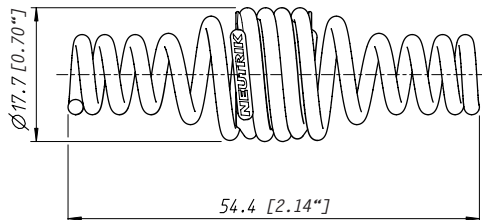
NA2JJ



Application: 1/4" Phone Plug to 1/4" Phone Plug

- The plug2PLUG is a simple yet sophisticated plug adapter for a quick and easy connection of two mono TS plugs.

### NA2JJ



## Ordering Information

### plug2PLUG

NA2JJ 2 pole coupler to extend two 2-pole 1/4" Phone Plugs