

|                                                 |         |                                                    |         |
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Where to obtain Technical Information

|                                                                                                                                                                              |                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Spec Drawings:</b> Dimensional drawings in .pdf and .dxf formats are available on the web – <a href="http://www.neutrik.com">www.neutrik.com</a> in the PRODUCTS section. | <b>In person technical support for US customers</b> – 732-901-9488 or <a href="mailto:info@neutrikusa.com">info@neutrikusa.com</a> .                                                               |
| <b>Assembly Instructions:</b> Available on the web – <a href="http://www.neutrik.com">www.neutrik.com</a> – in the TECHNICAL SUPPORT section. All files are .pdf.            | <b>In person technical support outside of the US</b> – contact Neutrik AG – <a href="mailto:neutrik@neutrik.com">neutrik@neutrik.com</a> - for the Neutrik sister company or agent nearest to you. |
| <b>FAQs</b> – Available on the web – <a href="http://www.neutrikusa.com">www.neutrikusa.com</a> – in the FAQ section.                                                        |                                                                                                                                                                                                    |



## X Series

This series has become the accepted worldwide standard for XLR cable connectors. The compact design offers the shortest XLR cable version in the industry. The female features an insert which is completely surrounded by metal for added protection and the shell has a rubber ring for secure mating to a male XLR or microphone. Assembly is quick and easy with no screws to worry about and includes the unique NEUTRIK® chuck type strain relief. Accessories include BSX boots and XCR labeling rings for color coding identification (see page 39).

### ORDERING INFORMATION – "X" Series Male

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Gold Contacts |
|---------------|------------------------------|------------------------------------|---------------|
| 3             | NC3MX                        | NC3MX-BAG                          | NC3MX-B       |
| 3**           | NC3MX-D                      | NC3MX-BAG-D                        | NC3MX-B-D     |
| 4             | NC4MX                        | NC4MX-BAG                          | NC4MX-B       |
| 5             | NC5MX                        | NC5MX-BAG                          | NC5MX-B       |
| 6             | NC6MX                        | NC6MX-BAG                          | NC6MX-B       |
| 6*            | NC6MXS                       | NC6MXS-BAG                         | NC6MXS-B      |
| 7             | NC7MX                        | NC7MX-BAG                          | NC7MX-B       |

### ORDERING INFORMATION – "X" Series Female

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Gold Contacts |
|---------------|------------------------------|------------------------------------|---------------|
| 3             | NC3FX                        | NC3FX-BAG                          | NC3FX-B       |
| 3**           | NC3FX-D                      | NC3FX-BAG-D                        | NC3FX-B-D     |
| 4             | NC4FX                        | NC4FX-BAG                          | NC4FX-B       |
| 5             | NC5FX                        | NC5FX-BAG                          | NC5FX-B       |
| 6             | NC6FX                        | NC6FX-BAG                          | NC6FX-B       |
| 6*            | NC6FXS                       | NC6FXS-BAG                         | NC6FXS-B      |
| 7             | NC7FX                        | NC7FX-BAG                          | NC7FX-B       |

\*\*Bulk packaged available in 3 pin version only. Must be ordered in multiples of 100

\*Switchcraft® equivalent



## X-1 and X-14 Series

A more economical version of the standard "X" series connectors, the X-1 series has a one piece plastic boot and is only available in 3 pin configurations.

The X-14 series is also only available in 3 pin configurations and features a chuck that can accommodate cable diameters up to 9.7mm. Both the X-1 and the X-14 series can use the XCR rings for color coding (see page 39).

### ORDERING INFORMATION – "X-1" Series Male

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts |
|---------------|------------------------------|------------------------------------|
| 3             | NC3MX-1                      | NC3MX-1-BAG                        |
| 3**           | NC3MX-1-D                    | NC3MX-1-BAG-D                      |

### ORDERING INFORMATION – "X-1" Series Female

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts |
|---------------|------------------------------|------------------------------------|
| 3             | NC3FX-1                      | NC3FX-1-BAG                        |
| 3**           | NC3FX-1-D                    | NC3FX-1-BAG-D                      |

\*\*Must be ordered in multiples of 100

Special orders may be available - contact Neutrik USA, Inc.® for details

### ORDERING INFORMATION – "X-14" Series Male

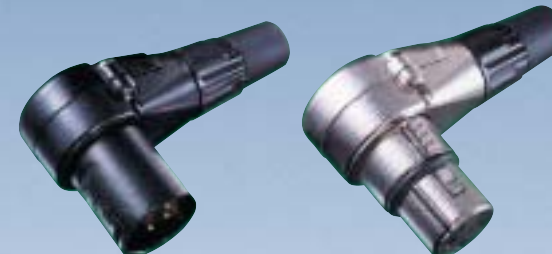
| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts |
|---------------|------------------------------|------------------------------------|
| 3             | NC3MX-14                     | NC3MX-14-B                         |

### ORDERING INFORMATION – "X-14" Series Female

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts |
|---------------|------------------------------|------------------------------------|
| 3             | NC3FX-14                     | NC3FX-14-B                         |

Available bulk packed. Must be ordered in multiples of 100

Contact Neutrik USA, Inc.® for details.



## RC Series

These compact, low profile, right angle cable connectors are designed to select any of 7x45° positions by rotating the assembled insert into various indents before securing back cover.

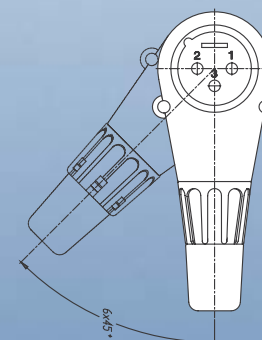
### ORDERING INFORMATION – "RC" Series Male

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Gold Contacts |
|---------------|------------------------------|------------------------------------|---------------|
| 3             | NC3MRC                       | NC3MRC-BAG                         | NC3MRC-B      |
| 4             | NC4MRC                       | NC4MRC-BAG                         | NC4MRC-B      |
| 5             | NC5MRC                       | NC5MRC-BAG                         | NC5MRC-B      |
| 6             | NC6MRC                       | NC6MRC-BAG                         | NC6MRC-B      |
| 6*            | NC6MRCS                      | NC6MRCS-BAG                        | NC6MRCS-B     |
| 7             | NC7MRC                       | NC7MRC-BAG                         | NC7MRC-B      |

### ORDERING INFORMATION – "RC" Series Female

| # of Contacts | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Gold Contacts |
|---------------|------------------------------|------------------------------------|---------------|
| 3             | NC3FRC                       | NC3FRC-BAG                         | NC3FRC-B      |
| 4             | NC4FRC                       | NC4FRC-BAG                         | NC4FRC-B      |
| 5             | NC5FRC                       | NC5FRC-BAG                         | NC5FRC-B      |
| 6             | NC6FRC                       | NC6FRC-BAG                         | NC6FRC-B      |
| 6*            | NC6FRCS                      | NC6FRCS-BAG                        | NC6FRCS-B     |
| 7             | NC7FRC                       | NC7FRC-BAG                         | NC7FRC-B      |

\*Switchcraft® equivalent



## Digital XLR

The Digital XLR is a 3-pole connector that allows the transmission of digital audio signals, according to AES3, efficiently and reliably. Features include a coaxial ground spring and coaxial hex crimp ferrule at the cable entrance for accurate and reliable transition of the shield to the shell. The XCC series provides continuous (360°) ground connection of the cable shield to the shell, which is essential when transmitting digital audio signals.

Additionally excellent screening is provided up to 1.3GHz of min-55dB (50 times better) and is especially suited for coverage of the frequency range of mobile phones (see graph below).

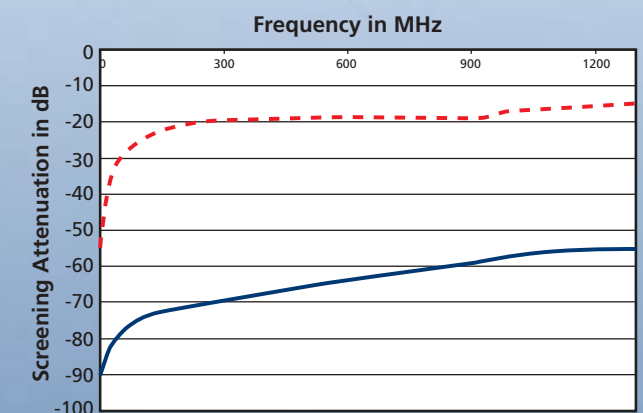
### ORDERING INFORMATION – Digital XLR

| # of Contacts | Nickel Shell Gold Contacts | Female  |
|---------------|----------------------------|---------|
| 3             | NC3MXCC                    | NC3FXCC |

Crimp: HX-BNC ro M225201/5 01

Die: DIE-BNC-PG (6.5 mm hex)

Available in 4-7 pin configurations (including Switchcraft® 6 pin configurations) as special order. Minimum order required. Contact Neutrik USA, Inc.® for details.





FX-SPEC Series

This connector offers a locking ring for the highest security protection of your microphones on the market today. Just twist the ring into place and tighten the allen M2.5 screw with a 1.27mm wrench for passive theft protection. The locking ring also protects against accidental disconnects.

ORDERING INFORMATION – "FX-SPEC" Series

| # of Contacts | Black Chrome Shell<br>Silver Contacts |
|---------------|---------------------------------------|
| 3             | NC3FX-SPEC                            |



FX-S Series

The FX-S series offers a noiseless ON/OFF switch which shorts pins 2 and 3 muting the signal voltage between conductors. Gold contacts are standard.

ORDERING INFORMATION – "FX-S" Series Male

| # of Contacts | Nickel Shell<br>Gold Contacts | Black Chrome Shell |
|---------------|-------------------------------|--------------------|
| 3             | NC3FX-S                       | NC3FX-S-B          |



X-HD Series

These heavy duty cable connectors were made for outdoor, high traffic, or industrial applications. The male shell is stainless steel and the female is covered in neoprene with a sealing lip to mate securely. Gold contacts, which offer superb abrasion resistance, are standard. The two piece metal boot contains a rubber "O" ring which prevents elements from entering the shell. The X-HD series is dust proof, water and corrosion resistant according to IEC-144:IP65 when mated together or IEC-144:IP54 when mated with others.

ORDERING INFORMATION – "X-HD" Series Male

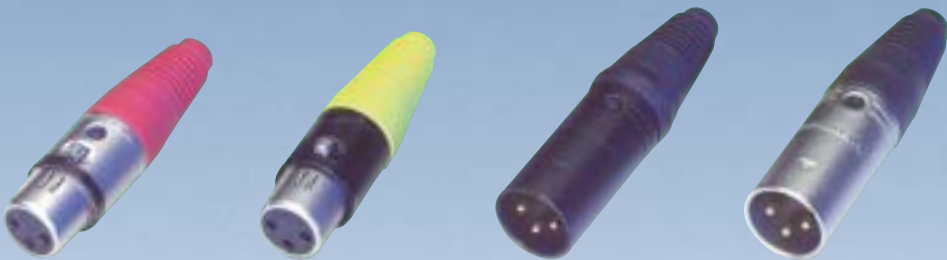
| # of Contacts | Stainless Steel Shell<br>Gold Contacts |             |
|---------------|----------------------------------------|-------------|
| 3             | NC3MX-HD                               | NC3MX-HD-B* |

\* -B version has black boot only (male shell is not black)

ORDERING INFORMATION – "X-HD" Series Female

| # of Contacts | Neoprene Covered Shell with Gold Contacts |                    |
|---------------|-------------------------------------------|--------------------|
|               | Nickel Shell                              | Black Chrome Shell |
| 3             | NC3FX-HD                                  | NC3FX-HD-B         |

Male and Female connectors available in 4-7 pin configuration including 6 pin Switchcraft® equivalent.  
Contact Neutrik USA, Inc.® for ordering information.



Easycon Series

"NEUTRIK® redefines the future of XLR Cable Connectors"

NEUTRIK once again takes the lead in offering innovative designs for audio connector applications. Available with either IDC or solder contacts, Easycon® is made of only three pieces. There is no set screw or additional parts to drop or lose. We believe that these connectors are the fastest way to terminate a cable with an XLR - allowing the user to reduce assembly time by as much as 60%.

Easycon® gold-plated (TRIBOR®), polished, self cleaning "tuning-fork" IDC or solder contacts (patents granted and pending) extend lifetime mating cycles allowing easy and reliable connections every time. The solderless shield connection is direct to Pin 1. A drain wire connection is also included.

The self-adjusting cam lock cable clamp (patent granted US 6 783 804) accepts a wide range of cable diameters (5.5mm - 7.0mm) and provides increased retention force under tensile stress.

Use the BSZ boots for easy color coding identification (see page 39).

ORDERING INFORMATION – EASYCON – IDC-Male

| # of Contacts | Nickel Shell/<br>Gold Contacts | Black Chrome/<br>Gold Contacts |
|---------------|--------------------------------|--------------------------------|
| 3             | NC3MEZY-AU                     | NC3MEZY-B                      |

ORDERING INFORMATION – EASYCON – IDC-Female

| # of Contacts | Nickel Shell/<br>Gold Contacts | Black Chrome/<br>Gold Contacts |
|---------------|--------------------------------|--------------------------------|
| 3             | NC3FEZY-AU                     | NC3FEZY-B                      |

ORDERING INFORMATION – EASYCON – Solder-Male

| # of Contacts | Nickel Shell/<br>Gold Contacts | Black Chrome/<br>Gold Contacts |
|---------------|--------------------------------|--------------------------------|
| 3             | NC3MEZ-AU                      | NC3MEZ-B                       |

ORDERING INFORMATION – EASYCON – Solder-Female

| # of Contacts | Nickel Shell/<br>Gold Contacts | Black Chrome/<br>Gold Contacts |
|---------------|--------------------------------|--------------------------------|
| 3             | NC3FEZ-AU                      | NC3FEZ-B                       |

All Easycon is available bulk packed. Add "-D" as suffix when ordering. Must be ordered in multiples of 100. Contact Neutrik USA, Inc.® for details.

|                                                                | "X" Series       | "X-1" Series | "X-14" Series | "RC" Series      | "X-HD" Series |
|----------------------------------------------------------------|------------------|--------------|---------------|------------------|---------------|
| Electrical                                                     |                  |              |               |                  |               |
| Number of contacts: 3-7                                        | X                | 3 only       | 3 only        | X                | X             |
| Rated current: See table below                                 | X                | X            | X             | X                | X             |
| Contact resistance: <3 mΩ                                      | X                | X            | X             | X                | X             |
| Insulation resistance:                                         |                  |              |               |                  |               |
| • initial: >2GΩ                                                | X                | X            | X             | X                | X             |
| • after damp heat test: >1GΩ                                   | X                | X            | X             | X                | X             |
| Dielectric strength: 1500 V dc                                 | X                | X            | X             | X                | X             |
| Mechanical                                                     |                  |              |               |                  |               |
| Insertion / withdrawal force: ≤20N                             | X                | X            | X             | X                | X             |
| Max. wire size: See table below                                | X                | X            | X             | X                | X             |
| Cable O.D. range: 3.5 mm - 8.0 mm                              | X                | 4 mm - 7 mm  | 4 mm - 9.7 mm | 4 mm - 7 mm      | X             |
| Environmental                                                  |                  |              |               |                  |               |
| Temperature range: -30°C to +80°C                              | X                | X            | X             | X                | X             |
| Flammability: UL 94HB                                          | X                | X            | X             | X                | X             |
| Solderability: Complies with IEC 68-2-20                       | X                | X            | X             | X                | X             |
| Protection class:                                              | N/A              | N/A          | N/A           | N/A              | IP 65         |
| Materials                                                      |                  |              |               |                  |               |
| Shell: ZnAl4Cu1, gal Ni or black chrome over Cu plating        | X                | X            | X             | X                | X             |
| Insert: PA 6.6 30% GR (glass reinforced)                       | X                | X            | X             | X                | X             |
| Locking ring: ZnAl4Cu1, gal Ni or black chrome over Cu plating | N/A              | N/A          | N/A           | N/A              | N/A           |
| Contacts:                                                      |                  |              |               |                  |               |
| • female (3 pole) CuSn6                                        | X                | X            | X             | X                | X             |
| • female (4-7 pole) & male CuZn39Pb3                           | X                | X            | X             | X                | X             |
| Contact surface: gal 0.2 μm Au hard alloy over 2 μm Ni         | -B versions only | N/A          | N/A           | -B versions only | X             |
| Latch lock: St3K32 (latch)/Ck 67 (spring)                      | X                | X            | X             | X                | X             |
| Strain relief clamp: POM                                       | X                | X            | X             | X                | X             |
| Antikink boot: PUR                                             | X                | X            | X             | X                | X             |

| XLR Rated Current |       |           |       |
|-------------------|-------|-----------|-------|
| # of contacts     | I [A] | {mm²/AWG} | C[pF] |
| 3                 | 16    | 2.5/14    | ≤ 4   |
| 4                 | 10    | 1.5/16    | ≤ 7   |
| 5                 | 7.5   | 1.0/18    | ≤ 7   |
| 6                 | 7.5   | 1.0/18    | ≤ 7   |
| 7                 | 5     | 1.0/18    | ≤9    |

|                                                                | Digital XLR | "FX-SPEC Series" | "EasyCon Series"                      | "FXS" Series |
|----------------------------------------------------------------|-------------|------------------|---------------------------------------|--------------|
| Electrical                                                     |             |                  |                                       |              |
| Number of contacts: 3-7                                        | 3 only      | 3 only           | 3 only                                | 3 only       |
| Rated current: See table below                                 | X           | X                | 6A                                    | X            |
| Contact resistance: <3 mΩ                                      | X           | X                | ≤ 6mΩ                                 | X            |
| Insulation resistance:                                         |             |                  |                                       |              |
| • initial: >2GΩ                                                | X           | X                | X                                     | X            |
| • after damp heat test: >1GΩ                                   | X           | X                | X                                     | X            |
| Dielectric strength: 1500 V dc                                 | X           | X                | X                                     | X            |
| Mechanical                                                     |             |                  |                                       |              |
| Insertion / withdrawal force: ≤20N                             | X           | X                | X                                     | X            |
| Max. wire size: See table on previous page                     | X           | X                | AWG 26-22                             | X            |
| Cable O.D. range: 3.5 mm - 8.0 mm                              | X           | X                | 5.5 - 7.0 mm                          | X            |
| Environmental                                                  |             |                  |                                       |              |
| Temperature range: -30°C to +80°C                              | X           | X                | X                                     | X            |
| Flammability: UL 94HB                                          | X           | X                | N/A                                   | X            |
| Solderability: Complies with IEC 68-2-20                       | X           | X                | X                                     | X            |
| Protection class:                                              | N/A         | N/A              | N/A                                   | N/A          |
| Materials                                                      |             |                  |                                       |              |
| Shell: ZnAl4Cu1, black chrome over Cu plating                  | X<br>N/A    | N/A<br>X         | X                                     | X            |
| Insert: PA 6.6 30% GR (glass reinforced)                       | X           | X                | X                                     | X            |
| Locking ring: ZnAl4Cu1, gal Ni or black chrome over Cu plating | N/A         | X                | N/A                                   | N/A          |
| Contacts:                                                      |             |                  |                                       |              |
| • female (3 pole) CuSn6                                        | X           | X                | X                                     | X            |
| • female (4-7) pole & male CuZn39Pb3                           | X           | N/A              | CuZn36Pb1.5                           | N/A          |
| Contact surface: gal 0.2 μm Au hard alloy over 2 μm Ni         | X           | N/A              | gal 0.1μm AuCo over 2μmNiP15(Tribor®) | X            |
| Latch lock: St3K32 (latch)/Ck 67 (spring)                      | X           | X                | N/A                                   | X            |
| Strain relief clamp: POM                                       | Ni/Su       | X                | X                                     | X            |
| Antikink boot: PUR                                             | X           | X                | Pu/EPDM                               | X            |



A / B Series

The A/B series of XLR receptacles offer a variety of standard features including hard gold contacts. They are the smallest receptacles on the market today and when mounted side by side are only 0.90" center to center. These receptacles are also extremely cost effective, are available in 3, 4 & 5 pin configurations and a revolutionary tuning fork contact design is standard on the females.

The "A" series is made of high impact glass reinforced UL94V-0 plastic. The "B" series features a metal (nickel or

black chrome) mounting flange, which enables continuous circumferential chassis ground contact for complete EMC and RF protection.

The 3 pin male "A" series offers either a ground contact which is connected through the chassis mounting hole to reduce EMC interference or you can order without the ground contact. See the ordering information below for correct part #s.

| ORDERING INFORMATION – "A/B" Series Male – 3 PIN |                           |                              |                 |                     |
|--------------------------------------------------|---------------------------|------------------------------|-----------------|---------------------|
| Gold Contacts Termination                        | Plastic Shell with ground | Plastic Shell without ground | Shell w/Ni Ring | Shell w/Blk Cr Ring |
| PCB Mount Horizontal                             | NC3MAH                    | NC3MAH-0                     | NC3MBH          | NC3MBH-B            |
| PCB Mount Horizontal Lateral Right               | NC3MAHR                   | N/A                          | NC3MBHR         | NC3MBHR-B           |
| PCB Mount Horizontal Lateral Left                | NC3MAHL                   | N/A                          | NC3MBHL         | NC3MBHL-B           |
| PCB Mount Vertical                               | NC3MAV                    | NC3MAV-0                     | NC3MBV          | NC3MBV-B            |
| IDC                                              | NC3MAY                    | N/A                          | NC3MBY          | NC3MBY-B            |

Special version of "B" series available w/ additional ground contacts, add "-E" as suffix. Contact Neutrik USA, Inc.® for details. Minimums may be required.

| ORDERING INFORMATION – "A/B" Series Female – 3 PIN |               |                 |                     |                                   |
|----------------------------------------------------|---------------|-----------------|---------------------|-----------------------------------|
| Gold Contacts Termination                          | Plastic Shell | Shell w/Ni Ring | Shell w/Blk Cr Ring | Ground                            |
| PCB Mount Horizontal                               | NC3FAH*       | N/A             | N/A                 | No special ground feature         |
|                                                    | NC3FAH-1*     | NC3FBH-1*       | NC3FBH-1-B          | Pin one & chassis ground together |
|                                                    | NC3FAH-2*     | NC3FBH-2*       | NC3FBH-2-B          | Pin one & chassis ground separate |
| PCB Mount Horizontal Lateral Right                 | NC3FAHR-1*    | NC3FBHR-1*      | NC3FBHR-1-B         | Pin one & chassis ground together |
|                                                    | NC3FAHR-2*    | NC3FBHR-2*      | NC3FBHR-2-B         | Pin one & chassis ground separate |
| PCB Mount Horizontal Lateral Left                  | NC3FAHL-1*    | NC3FBHL-1*      | NC3FBHL-1-B         | Pin one & chassis ground together |
|                                                    | N/A           | N/A             | N/A                 | Pin one & chassis ground separate |
| PCB Mount Vertical                                 | NC3FAV*       | N/A             | N/A                 | No ground feature                 |
|                                                    | NC3FAV-1*     | NC3FBV-1*       | NC3FBV-1-B          | Pin one & chassis ground together |
|                                                    | NC3FAV-2*     | NC3FBV-2*       | NC3FBV-2-B          | Pin one & chassis ground separate |
| IDC                                                | NC3FAY*       | NC3FBY          | NC3FBY-B            | No special ground feature         |

\*W/ retention spring instead of "push" tab add, "-0" as suffix ie. NC3FAH-1-0

Mounting Screws

3 pin A Series use part # Screw-2.9m  
3 pin B Series use part # Screw-2.5m

7 3 2 - 9 0 1 - 9 4 8 8



A / B Series

The 3 pin female receptacles are currently available in horizontal and vertical PCB mount terminations and offer three grounding options – no ground, pin 1 and chassis ground together, or pin 1 and chassis ground separate. The horizontal PCB mount versions of the male and the female are also available in lateral right or left pin outs. The 3 pin male and female receptacles are also offered in an IDC version.

The new 4 & 5 pin versions are recommended for DMX and lighting applications and are available in horizontal or

vertical PCB mount. The grounding feature for the 4 & 5 pin females is pin 1 and chassis ground separate. Additional grounding and latchless versions of the females may be available as special orders. Please call Neutrik USA, Inc.® for details.

Color coded identification rings are available - use part #s ACRF-color and ACRM-color (see page 39). These rings are available in 9 of the resistor colors (no black) and can be used on both the "A" and the "B" series.

| ORDERING INFORMATION – "A/B" Series Male – 4 PIN |               |                 |                     |
|--------------------------------------------------|---------------|-----------------|---------------------|
| Gold contacts Termination                        | Plastic Shell | Shell w/Ni Ring | Shell w/Blk Cr Ring |
| PCB Mount Horizontal                             | NC4MAH        | NC4MBH          | NC4MBH-B            |
| PCB Mount Vertical                               | NC4MAV        | NC4MBV          | NC4MBV-B            |

| ORDERING INFORMATION – "A/B" Series Female – 4 PIN |               |                 |                     |                                   |
|----------------------------------------------------|---------------|-----------------|---------------------|-----------------------------------|
| Gold contacts Termination                          | Plastic Shell | Shell w/Ni Ring | Shell w/Blk Cr Ring | Ground                            |
| PCB Mount Horizontal                               | NC4FAH        | NC4FBH          | NC4FBH-B            | Pin one & chassis ground separate |
| PCB Mount Vertical                                 | NC4FAV        | NC4FBV          | NC4FBV-B            | Pin one & chassis ground separate |

latchless (retention spring instead of PUSH tab) versions of females may be available as special order - add "-0" as suffix when ordering. Contact Neutrik USA, Inc.® for details.

| ORDERING INFORMATION – "A/B" Series Male – 5 PIN |               |                 |                     |
|--------------------------------------------------|---------------|-----------------|---------------------|
| Gold contacts Termination                        | Plastic Shell | Shell w/Ni Ring | Shell w/Blk Cr Ring |
| PCB Mount Horizontal                             | NC5MAH        | NC5MBH          | NC5MBH-B            |
| PCB Mount Vertical                               | NC5MAV        | NC5MBV          | NC5MBV-B            |

| ORDERING INFORMATION – "A/B" Series Female – 5 PIN |               |                 |                     |                                   |
|----------------------------------------------------|---------------|-----------------|---------------------|-----------------------------------|
| Gold contacts Termination                          | Plastic Shell | Shell w/Ni Ring | Shell w/Blk Cr Ring | Ground                            |
| PCB Mount Horizontal                               | NC5FAH        | NC5FBH          | NC5FBH-B            | Pin one & chassis ground separate |
| PCB Mount Vertical                                 | NC5FAV        | NC5FBV          | NC5FBV-B            | Pin one & chassis ground separate |

latchless (retention spring instead of PUSH tab) versions of females may be available as special order - add "-0" as suffix when ordering. Contact Neutrik USA, Inc.® for details.

Mounting Screws

4 and 5 pin A & B Series use part # Screw-2.9m

www.neutrikusa.com

| A/B Series Specifications                                  | 3 PIN            | 4 PIN         | 5 PIN         |
|------------------------------------------------------------|------------------|---------------|---------------|
| <b>Electrical</b>                                          |                  |               |               |
| Number of contacts:                                        | 3                | 4             | 5             |
| Rated current:                                             | 6A               | 4A            | 3A            |
| Rated voltage: 50 Vac                                      | X                | X             | X             |
| Dielectric strength: 1500 V dc                             | X                | X             | X             |
| Contact resistance (measured between soldering points):    | @10 mA / 1kHz    | @10 mA / 1kHz | @10 mA / 1kHz |
| • Initial                                                  |                  |               |               |
| Female: <5 mΩ                                              | X                | X             | X             |
| Male: <3 mΩ                                                | X                | X             | X             |
| • After salt mist and damp heat test                       |                  |               |               |
| Female: <7 mΩ                                              | X                | X             | X             |
| Male: <4 mΩ                                                | X                | X             | X             |
| Insulation resistance:                                     |                  |               |               |
| • Initial: >2GΩ @ 500 Vdc                                  | X                | X             | X             |
| • After salt mist and damp heat test: >1GΩ @ 500 Vdc       | X                | X             | X             |
| Capacity between contacts:                                 | ≤4 pF            | ≤7 pF         | ≤7 pF         |
| <b>Mechanical</b>                                          |                  |               |               |
| Applicable wire size:<br>0.22mm²/24 AWG and 0.14mm²/26 AWG | IDC Version only | N/A           | N/A           |
| Retention method (female only):                            |                  |               |               |
| • Standard: latch lock                                     | X                | X             | X             |
| • "-O" version: retention spring instead of "PUSH" tab     | X                | X             | X             |
| Separating force: 20N ≤ F ≤ 26N                            | X                | X             | X             |
| <b>Environmental</b>                                       |                  |               |               |
| Operating temperature: -30°C to +80°C                      | X                | X             | X             |
| Flammability: UL 94 HB                                     | UL 94V-0         | X             | X             |
| Solderability: Complies with IEC 68-2-20                   | X                | X             | X             |
| <b>Materials</b>                                           |                  |               |               |
| Housing:                                                   |                  |               |               |
| • A-Series: PA 6.6 30% GR (glass reinforced)               | X                | X             | X             |
| • B-Series (ring): ZnAl4Cu1gal Ni or black chrome          | X                | X             | X             |
| Contacts:                                                  |                  |               |               |
| • Female: CuSn6                                            | X                | X             | X             |
| • Male: CuZn35Pb2                                          | X                | X             | X             |
| Contact surface: gal 0.2 μm AuCo over 2 μm NiP15 (Tribor)  | X                | X             | X             |
| Latch lock & spring: Ck 67 steel, treated                  | X                | X             | X             |



D Series

This connector consists of an insert and shell which lock together using a "00" size flathead screwdriver (part # SD-1) after assembly. The ability to order the inserts and shells separately allows the user to choose the best combination for any application. PCB mount horizontal (right angle),

vertical, or solder springs are the available terminations. RF protected via 3 point coaxial ground contact to the shell of mated connectors. Available accessories are the same as for the "D-L-1" series (see page 39).

| ORDERING INFORMATION – "D" Series Male |               |                     |           |                      |
|----------------------------------------|---------------|---------------------|-----------|----------------------|
| # of Contacts                          | Nickel Silver | Black Chrome Silver | Gold      | Termination          |
| 3                                      | NC3MD-H       | NC3MD-H-BAG         | NC3MD-H-B | PCB Mount Horizontal |
| 3                                      | NC3MD-V       | NC3MD-V-BAG         | NC3MD-V-B | PCB Mount Vertical   |
| 3                                      | NC3MD-L       | NC3MD-L-BAG         | NC3MD-L-B | Solder Springs       |

| ORDERING INFORMATION – "D" Series Female |               |                     |           |                      |
|------------------------------------------|---------------|---------------------|-----------|----------------------|
| # of Contacts                            | Nickel Silver | Black Chrome Silver | Gold      | Termination          |
| 3                                        | NC3FD-H       | NC3FD-H-BAG         | NC3FD-H-B | PCB Mount Horizontal |
| 3                                        | NC3FD-V       | NC3FD-V-BAG         | NC3FD-V-B | PCB Mount Vertical   |
| 3                                        | NC3FD-L       | NC3FD-L-BAG         | NC3FD-L-B | Solder Springs       |

| ORDERING INFORMATION – "D" Series Inserts/Shells Female |           |           |               |           |               |               |
|---------------------------------------------------------|-----------|-----------|---------------|-----------|---------------|---------------|
| # of Contacts                                           | Inserts   |           |               | Shells    |               |               |
|                                                         | Silver    | Gold      | Termination   | Nickel    | Black Chrome  | Black Plastic |
| 3                                                       | 3FD-H-I   | 3FD-H-I-B | PCB Mt Horiz  | DH-NF**   | DH-NF-BAG**   | DHP           |
| 3                                                       | 3FD-H-I-0 | N/A       | PCB Mt Horiz  | DH-NF-0** | DH-NF-BAG-0** |               |
| 3                                                       | 3FD-L-I   | 3FD-L-I-B | Solder Spring |           |               |               |
| 3                                                       | 3FD-L-I-0 | N/A       | Solder Spring |           |               |               |
| 3                                                       | 3FD-V-I   | 3FD-V-I-B | PCB Mt Vert   |           |               |               |
| 3                                                       | 3FD-V-I-0 | N/A       | PCB Mt Vert   |           |               |               |

-0 = Latchless - retention spring instead of "push" tab

\*\* Shells available with M3 threads add "-M3" as suffix when ordering. Minimums may be required. Contact Neutrik USA, Inc.® for details.

| ORDERING INFORMATION – "D" Series Inserts/Shells Male |         |           |               |         |              |               |
|-------------------------------------------------------|---------|-----------|---------------|---------|--------------|---------------|
| # of Contacts                                         | Inserts |           |               | Shells  |              |               |
|                                                       | Silver  | Gold      | Termination   | Nickel  | Black Chrome | Black Plastic |
| 3                                                     | 3MD-H-I | 3MD-H-I-B | PCB Mt Horiz  | DH-NM** | DH-NM-BAG**  | DHP           |
| 3                                                     | 3MD-L-I | 3MD-L-I-B | Solder Spring |         |              |               |
| 3                                                     | 3MD-V-I | 3MD-V-I-B | PCB Mt Vert   |         |              |               |



P Series

One piece metal shell panel receptacle with large solder cups. The insert is non-removable. The "P" Series is front mountable only and the male and female have different mounting dimensions.

| ORDERING INFORMATION – "P" Series Male |                              |                                                  |         |
|----------------------------------------|------------------------------|--------------------------------------------------|---------|
| # of Contacts                          | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts Gold Contacts |         |
| 3                                      | NC3MP                        | NC3MP-BAG                                        | NC3MP-B |
| 4                                      | NC4MP                        | NC4MP-BAG                                        | NC4MP-B |
| 5                                      | NC5MP                        | NC5MP-BAG                                        | NC5MP-B |
| 6                                      | NC6MP                        | NC6MP-BAG                                        | NC6MP-B |

Male "P" Series not available in 6 pin Switchcraft® equivalent or 7 pin configurations

| ORDERING INFORMATION – "P" Series Female |                              |                                                  |           |
|------------------------------------------|------------------------------|--------------------------------------------------|-----------|
| # of Contacts                            | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts Gold Contacts |           |
| 3                                        | NC3FP-1                      | NC3FP-1-BAG                                      | NC3FP-1-B |
| 4                                        | NC4FP-1                      | NC4FP-1-BAG                                      | NC4FP-1-B |
| 5                                        | NC5FP-1                      | NC5FP-1-BAG                                      | NC5FP-1-B |
| 6                                        | NC6FP-1                      | NC6FP-1-BAG                                      | NC6FP-1-B |
| 6*                                       | NC6FPS-1                     | N/A                                              | N/A       |
| 7                                        | NC7FP-1                      | N/A                                              | NC7FP-1-B |

\*Switchcraft® equivalent



D-L-1 Series

In this series the male and female fit in the same hole cut out and are front or rear mountable. The "D-L-1" Series features a one piece unit with solder cup terminations. This series is very cost effective. Accessories include male and female rubber dust covers (SCDF or SCDM), DBA blank plastic plate, and DSS color coded labeling plates (see page 39).

| ORDERING INFORMATION – "D-L-1" Series Male |                              |                                                  |              |
|--------------------------------------------|------------------------------|--------------------------------------------------|--------------|
| # of Contacts                              | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts Gold Contacts |              |
| 3                                          | NC3MD-L-1                    | NC3MD-L-1-BAG                                    | NC3MD-L-1-B  |
| 4                                          | NC4MD-L-1                    | NC4MD-L-1-BAG                                    | NC4MD-L-1-B  |
| 5                                          | NC5MD-L-1                    | NC5MD-L-1-BAG                                    | NC5MD-L-1-B  |
| 6                                          | NC6MD-L-1                    | NC6MD-L-1-BAG                                    | NC6MD-L-1-B  |
| 6*                                         | NC6MDS-L-1                   | N/A                                              | NC6MDS-L-1-B |
| 7                                          | NC7MD-L-1                    | N/A                                              | NC7MD-L-1-B  |

| ORDERING INFORMATION – "D-L-1" Series Female |                              |                                                  |              |
|----------------------------------------------|------------------------------|--------------------------------------------------|--------------|
| # of Contacts                                | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts Gold Contacts |              |
| 3                                            | NC3FD-L-1                    | NC3FD-L-1-BAG                                    | NC3FD-L-1-B  |
| 3                                            | NC3FD-L-1-0                  | NC3FD-L-1-BAG-0                                  | N/A          |
| 4                                            | NC4FD-L-1                    | NC4FD-L-1-BAG                                    | NC4FD-L-1-B  |
| 5                                            | NC5FD-L-1                    | NC5FD-L-1-BAG                                    | NC5FD-L-1-B  |
| 6                                            | NC6FD-L-1                    | NC6FD-L-1-BAG                                    | NC6FD-L-1-B  |
| 6*                                           | NC6FDS-L-1                   | N/A                                              | NC6FDS-L-1-B |
| 7                                            | NC7FD-L-1                    | NC7FD-L-1-BAG                                    | NC7FD-L-1-B  |

-0 = Latchless retention spring instead of "push" tab.

\*Switchcraft® equivalent

Parts may also be available with M3 threads. Minimums may be required. Contact Neutrik USA, Inc.® before ordering.



PP Series

The PP series is a cost effective alternative for your XLR panel receptacle needs. Made in a black plastic housing with solder cup terminations, the PP series fits in the same mounting hole as our D-L-1 series. The female is latchless and both male and female are available with 3 contacts as standard. Accessories are the same as for the "D-L-1" series (see page 39).

| ORDERING INFORMATION – "PP" Series Male |                                     |
|-----------------------------------------|-------------------------------------|
| # of Contacts                           | Black Plastic Shell Silver Contacts |
| 3 only                                  | NC3MPP                              |

| ORDERING INFORMATION – "PP" Series Female |                                     |
|-------------------------------------------|-------------------------------------|
| # of Contacts                             | Black Plastic Shell Silver Contacts |
| 3*                                        | NC3FPP                              |

\* Females available w/ 4-7 contacts in US only. Minimums may be required. Contact Neutrik USA, Inc.® for details.



DM3 Series

Featuring 4 or 5 pin PCB mount horizontal (right angle) or vertical contacts. One piece unit allows male and female to mount in same hole cutout. Rear mountable only. Available accessories are the same as for the "D-L-1" series (see page 39).

| ORDERING INFORMATION – "DM3" Series Male |                              |                                    |                                  |
|------------------------------------------|------------------------------|------------------------------------|----------------------------------|
| # of Contacts                            | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Termination                      |
| 4                                        | NC4MDM3-H                    | NC4MDM3-H-BAG                      | PCB Mount Horizontal (Rt. Angle) |
| 5                                        | NC5MDM3-H                    | NC5MDM3-H-BAG                      | PCB Mount Horizontal (Rt. Angle) |
| 5                                        | N/A                          | NC5MDM3-V-BAG                      | PCB Mount Vertical               |

| ORDERING INFORMATION – "DM3" Series Female |                              |                                    |                                  |
|--------------------------------------------|------------------------------|------------------------------------|----------------------------------|
| # of Contacts                              | Nickel Shell Silver Contacts | Black Chrome Shell Silver Contacts | Termination                      |
| 4                                          | NC4FDM3-H                    | NC4FDM3-H-BAG                      | PCB Mount Horizontal (Rt. Angle) |
| 5                                          | NC5FDM3-H                    | NC5FDM3-H-BAG                      | PCB Mount Horizontal (Rt. Angle) |
| 5                                          | N/A                          | NC5FDM3-V-BAG                      | PCB Mount Vertical               |

Special orders may be available. Minimums required. Contact Neutrik USA, Inc.® before ordering.

|                                                      | "P" SERIES | "D-L-1" SERIES | "PP" SERIES | "D" SERIES        | "DM3" |
|------------------------------------------------------|------------|----------------|-------------|-------------------|-------|
| Electrical                                           |            |                |             |                   |       |
| Number of contacts:                                  |            |                |             |                   |       |
| • Female:                                            | 3-7        | 3-7            | 3*          | 3 only            | 4-5   |
| • Male:                                              | 3-6        | 3-7            | 3 only      | 3 only            | 4-5   |
| Rated Current: See table on page 8                   | X          | X              | X           | 6A                | X     |
| Rated voltage: 250 V ac                              | X          | X              | X           | X                 | X     |
| Contact resistance: ≤5 mΩ                            | X          | X              | X           | X                 | X     |
| Insulation resistance                                |            |                |             |                   |       |
| • Initial: >2GΩ                                      | X          | X              | X           | X                 | X     |
| • after damp heat test: >1GΩ                         | X          | X              | X           | X                 | X     |
| Dielectric strength: 1500 V dc                       | X          | X              | X           | X                 | X     |
| Mechanical                                           |            |                |             |                   |       |
| Insertion / withdrawal force: ≤20N / ≤10N            | X          | X              | X           | X                 | X     |
| Max. wire size: See table on page 6                  | X          | X              | X           | "-L" version only | N/A   |
| Retention method (Female versions only):             |            |                |             |                   |       |
| • Standard: latch lock                               | X          | X              | N/A         | X                 | X     |
| • "-O" version: retention spring (3 pin female only) | N/A        | X              | X           | X                 | N/A   |
| Separating force: ≥20N                               | X          | X              | X           | X                 | X     |
| Environmental                                        |            |                |             |                   |       |
| Temperature range: -30°C to +80°C                    | X          | X              | X           | X                 | X     |
| Flammability: UL 94HB                                | X          | X              | X           | X                 | X     |
| Solderability: Complies with IEC 68-2-20             | X          | X              | X           | X                 | X     |
| Materials                                            |            |                |             |                   |       |
| Shell: ZnAlCu1, gal Ni or black chrome plating       | X          | X              | X           | ZnAl4Cu1          | X     |
| Insert: PA 6.6 30% GR (Glass Reinforced)             | X          | X              | X           | X                 | X     |
| Contacts:                                            |            |                |             |                   |       |
| • female (3-pole): CuSn6                             | X          | X              | X           | X                 | X     |
| • female (4-7-pole) & male: CuZn39Pb3                | X          | X              | X           | X                 | X     |
| Contact surface (over 2µm Ni):                       |            |                |             |                   |       |
| • Gold: gal 0.2 µm Au hard alloy                     | X          | X              | N/A         | X                 | X     |
| • Silver: gal 2µm Ag                                 | X          | X              | X           | X                 | X     |
| Latch lock & spring: Ck 67 steel, treated            | X          | X              | N/A         | X                 | X     |

\*Females available in 4-7 pins in US only.  
Call Neutrik USA, Inc.® for details.  
Minimums may be required.



NJ3FP6C Series

This series of panel mount locking 1/4" chassis jacks with solder terminations is made to mount in the same hole cutout out as our "D" and NL4MP series of panel mount receptacles. Options include a plastic shell and FastOn® solder tabs versions. Contact factory for ordering information.

| ORDERING INFORMATION – "NJ3FP6C" SERIES |              |                    |               |     |
|-----------------------------------------|--------------|--------------------|---------------|-----|
| # of Contacts                           | Nickel Shell | Black Chrome Shell | Plastic Shell |     |
| 3                                       | NJ3FP6C      | NJ3FP6C-BAG        | NJ3FP6C-P     | TRS |



NJ3FC6 Series

This series features the NEUTRIK® innovation of a securely locking 1/4" cable jack with latch release. Mates with all mono or stereo plugs specified to EIA RS-453. Able to handle cable OD up to 8mm.

| ORDERING INFORMATION – "NJ3FC6" SERIES |                              |                    |          |
|----------------------------------------|------------------------------|--------------------|----------|
| # of Contacts                          | Nickel Shell Silver Contacts | Black Chrome Shell | Contacts |
| 3                                      | NJ3FC6                       | NJ3FC6-BAG         | TRS      |



NJ\*FD/TB-V Series

Vertical mounting PCB jacks come in either standard 1/4" (FD) or long frame mil gauge (TB) versions. These jacks feature a snap on/twist off cap which drastically reduces assembly times. The retention force is provided by a special spring element which is independent of the contacts. Compact design allows more jacks in less space.

| ORDERING INFORMATION – NJ*FD/TB-V Series Vertical Jacks |                        |                         |                |
|---------------------------------------------------------|------------------------|-------------------------|----------------|
| # of Contacts                                           | STD 1/4" Gold Contacts | MIL Gauge Gold Contacts | Contacts       |
| 2                                                       | NJ2FD-V                | N/A                     | TS             |
| 3                                                       | NJ3FD-V                | N/A                     | TRS            |
| 5                                                       | NJ5FD-V                | N/A                     | T,TN,R,RN,S    |
| 6                                                       | NJ6FD-V                | NJ6TB-V                 | T,TN,R,RN,S,SN |

NOTE: Additional 1/4" jacks can be found in the NYS Series Product Guide

|                                                  | NJ3FC6 SERIES | NJ3FP6C SERIES | NJ*FD/TB-V SERIES            |
|--------------------------------------------------|---------------|----------------|------------------------------|
| Electrical                                       |               |                |                              |
| Rated current: 10 A                              | X             | X              | 3A                           |
| Rated current switch contact                     | N/A           | N/A            | 0.25 A @ 12 V                |
| Contact resistance:                              |               |                |                              |
| • Initial: <6 mΩ                                 | X             | X              | <10 mΩ                       |
| • After life test: <15 mΩ                        | X             | X              | <20 mΩ                       |
| Insulation resistance                            |               |                |                              |
| • Initial: >2GΩ                                  | X             | X              | >1GΩ @ 500 v dc              |
| • After damp heat test: >1GΩ                     | X             | X              | X                            |
| Rated switch contact resistance:                 | N/A           | N/A            | <15 mΩ                       |
| Dielectric strength: 1.5 kV dc                   | X             | X              | 1000 V dc                    |
| Mechanical                                       |               |                |                              |
| Life: >10,000 cycles                             | X             | X              | X                            |
| Insertion/Withdrawal force: <19N / <22N          | X             | X              | <10N / >8N                   |
| Locking force: >80N                              | X             | X              | N/A                          |
| Wire size: 1 mm² / 18 AWG max for soldering tag  | X             | X              | N/A                          |
| Cable O.D.: 3.5 mm - 8.0 mm                      | X             | N/A            | N/A                          |
| Cap opening torque: 25N cm / 9.84N in            | N/A           | N/A            | X                            |
| Panel thickness                                  | N/A           | N/A            | 1.2 - 1.5 mm (0.047 - 0.06") |
| Environmental                                    |               |                |                              |
| Temperature range: -20°C to +65°C                | X             | X              | X                            |
| Solderability: Complies with IEC 68-2-20         | X             | X              | X                            |
| Materials                                        |               |                |                              |
| Shell: ZnA/4Cu1 nickel plated or black chrome    | X             | X              | N/A                          |
| PA 6.6 30% GR                                    | N/A           | X              | X                            |
| Insulation: PA 6.6 30% GR                        | X             | X              | X                            |
| Contacts: CuBe2 / CuZn37 (ground) 2 µm Ag plated | X             | X              | N/A                          |
| CuSn6                                            | N/A           | N/A            | 0.2 µm Au over 2 µm Ni       |
| Chuck: POM                                       | X             | N/A            | N/A                          |
| Cap: POM                                         | N/A           | N/A            | X                            |
| Bushing: PA 6.6 15% GR + PUR                     | X             | N/A            | N/A                          |
| Applicable Standard Compability                  |               |                |                              |
| EIA RS 453                                       | X             | X              | NJ*FD-V                      |
| B Gauge BPO316 / MIL-J-641/3                     | N/A           | N/A            | NJ*TB-V                      |



1 / 4 " Plugs

**NP\*C Series** These 1/4" professional phone plugs are available in mono (2 contacts/TS) or stereo (3 contacts/TRS), according to EIA RS453. Features include a diecast metal shell and unique NEUTRIK® chuck type strain relief. Straight and right angle versions available. BSP boots and PCR rings offered for color coding (see page 39).

**NP\*RCS** A slim right angle version of our standard 1/4" professional phone plug. The NP\*RCS versions feature a narrow profile and a solder or solderless ground wire. BSP boots offered for color coding (see page 39).

ORDERING INFORMATION – Mono (TS) 1/4" Plugs

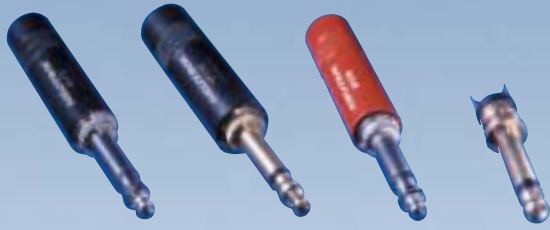
| # of Contacts | Nickel Shell    | Black Chrome Shell |               | Contacts |
|---------------|-----------------|--------------------|---------------|----------|
|               | Nickel Contacts | Nickel Contacts    | Gold Contacts |          |
| 2             | NP2C            | NP2C-BAG           | NP2C-B        | TS       |
| 2             | N/A             | NP2C-BAG-D*        | N/A           | TS       |
| 2             | NP2C-T10AA      | NP2C-T10AA-BAG     | N/A           | TS**     |
| 2             | NP2L            | NP2L-BAG           | N/A           | TS       |
| 2             | NP2RCS          | N/A                | N/A           | TS       |

\*\*W/ 1:10 transformer to convert mic level to guitar inputs

ORDERING INFORMATION – Stereo (TRS) 1/4" Plugs

| # of Contacts | Nickel Shell    | Black Chrome Shell |               | Contacts |
|---------------|-----------------|--------------------|---------------|----------|
|               | Nickel Contacts | Nickel Contacts    | Gold Contacts |          |
| 3             | NP3C            | NP3C-BAG           | NP3C-B        | TRS      |
| 3             | NP3C-D*         | NP3C-BAG-D*        | N/A           | TRS      |
| 3             | NP3RCS          | N/A                | N/A           | TRS      |

\*Bulk packaged – must be ordered in multiples of 100



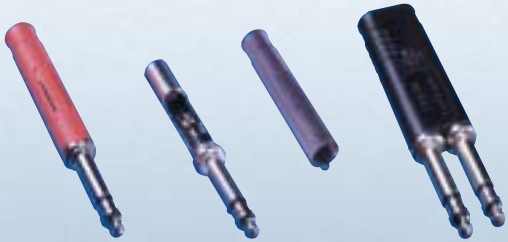
Military Gauge Series

NEUTRIK® offers a variety of plug fingers to meet mil spec applications. All versions feature a metal shell in black (-B) or red (-R) and unique NEUTRIK® chuck type strain relief. Assembly is quick with no rivets or screws to worry about.

ORDERING INFORMATION – Mil Gauge Series

| # of Contacts | Coated Brass Shell Silver Contacts | Mil. Gauge | Spec Diameter | Contacts |
|---------------|------------------------------------|------------|---------------|----------|
| 3             | NP3TB-B or -R                      | BPO 316    | .250"         | TRS      |
| 3             | NP3TM-B or -R                      | 642/2      | .250"         | TRS      |
| 2             | NP2CM-B or -R #                    | 642/4      | .250"         | TS       |
| 3             | NP3CM-B or -R #                    | 642/5      | .206"         | TRS      |

# Also available as plug fingers only in Nickel or Brass for overmolding.



NP3TT Series

These bantam size (4.4mm/0.173") miniature stereo plugs have recently been redesigned to be crimped with any standard RG58 crimp tool. The gold contact version when used with our NJ3TTA jacks (see page 31) eliminates mating problems due to corrosion or dirt.

ORDERING INFORMATION – "NP3TT" Series

| # of Contacts | Plastic Sleeve Silver Contacts | Plastic Sleeve Gold Contacts | Sleeve Color | Contacts |
|---------------|--------------------------------|------------------------------|--------------|----------|
|               | Silver Contacts                | Gold Contacts                |              |          |
| 3             | NP3TT-P-B                      | NP3TT-P-B-AU                 | Black        | TRS      |
| 3             | NP3TT-P-R                      | NP3TT-P-R-AU                 | Red          | TRS      |
| 3             | NP3TT-2                        | N/A                          | Black        | TRS      |

NOTE: Additional 1/4" plugs can be found in the NYS Series Product Guide

|                                                 | NP2C<br>SERIES | NP3C<br>SERIES | NP*RCS<br>SERIES | MIL GAUGE<br>SERIES | NP3TT<br>SERIES   |
|-------------------------------------------------|----------------|----------------|------------------|---------------------|-------------------|
| Electrical                                      |                |                |                  |                     |                   |
| Rated current: depends on mating connector      | X              | X              | X                | X                   | X                 |
| Contact resistance: depends on mating connector | X              | X              | X                | X                   | X                 |
| Insulation resistance:                          |                |                |                  |                     |                   |
| • Initial: >2GΩ                                 | X              | X              | X                | X                   | X                 |
| • After damp heat test: >1GΩ                    | X              | X              | X                | X                   | X                 |
| Dielectric strength:                            |                |                |                  |                     |                   |
| • 1.5 kV dc                                     | X              | N/A            | 2 pole           | X                   | N/A               |
| • 1 kV dc                                       | N/A            | X              | 3 pole           | N/A                 | X                 |
| Mechanical                                      |                |                |                  |                     |                   |
| Wiring: solder terminals                        | X              | X              | X                | X                   | Tip & ring        |
| Solderless ground                               | N/A            | N/A            | X                | N/A                 | N/A               |
| Sleeve: HEX crimp (5.4 mm) acc. to IEC 803      | N/A            | N/A            | N/A              | N/A                 | X                 |
| Wire size: 1 mm² / AWG 18                       | X              | X              | X                | X                   | 0.25 mm² / 24 AWG |
| 0.5 mm² / AWG 20                                | N/A            | N/A            | N/A              | NP3CM               | N/A               |
| Cable O.D.: 4 – 7 mm                            | X              | X              | X                | X                   | 4.8 mm            |
| 8 mm / .315"                                    | NP2L           | N/A            | N/A              | N/A                 | N/A               |
| Environmental                                   |                |                |                  |                     |                   |
| Temperature range: -20°C to +65°C               | X              | X              | X                | X                   | X                 |
| Solderability: complies With IEC 68-2-20        | X              | X              | X                | X                   | X                 |
| Materials                                       |                |                |                  |                     |                   |
| Shell: ZnAl4Cu1, Ni or black chrome plated      | X              | X              | Ni plated only   | N/A                 | N/A               |
| PA 6.6 50% GR                                   | N/A            | N/A            | X                | N/A                 | N/A               |
| PA 6.6 30% GR                                   | N/A            | N/A            | N/A              | N/A                 | X                 |
| Brass CuZn 39 Pb3, black/red coated             | N/A            | N/A            | N/A              | X                   | N/A               |
| Insulation: PA 6.6 30% GR                       | X              | X              | X                | X                   | X                 |
| Contacts: CuZn39Pb3, 2µm Ni (Su) plated         | X              | X              | X                | X                   | X                 |
| CuZn39Pb3, 0.2µm Au                             | NP2C-B         | N/A            | N/A              | N/A                 | N/A               |
| CuSn6, 2µm Ni (SU) Plated                       | N/A            | N/A            | N/A              | N/A                 | X                 |
| 2µm TRIBOR, (NiP-AuCo)                          | N/A            | N/A            | N/A              | N/A                 | X                 |
| Chuck: POM                                      | X              | X              | X                | X                   | N/A               |
| Bushing: POM + PU                               | X              | X              | X                | N/A                 | N/A               |



Combo

In the past consoles and amplifiers were furnished with two input receptacles per channel: a balanced 3 pin female XLR receptacle and a 1/4" phone jack. In the majority of cases, only one input was used at one time. Keeping with the NEUTRIK® view of innovation, the Combo connector was born – a combined XLR female 3 pin receptacle and 1/4" phone jack in one! This unique connector accepts balanced and line inputs or instrument inputs—all in one unit of panel space!

The Combo is now more compact and cost effective than ever. In response to customer feedback, a solder cup version has been added. The standard vertical and horizontal PCB terminations have new and improved contacts.

The 1/4" jack is available in mono, stereo, or stereo-switching. Another new feature is the availability of a switching XLR ground contact. The jack retention force is delivered by a special element which is completely separate from the jack.

Available in locking (latching) or non-locking (latchless) versions, the Combo is digital capable due to the low capacity of the conductors.

Mounting Screws – use part # Screw-2.9m

| COMBO Series Specifications    |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| Electrical                     |                                                                    |
| Number of contacts:            | 3 XLR; TRS, G, TN, RN, SN & optional switched XLR grd contact (GN) |
| Rated current:                 | XLR=7.5A                      Jack contacts=3A                     |
| Rated voltage:                 | 125 V ac                                                           |
| Contact resistance:            | • XLR: <10 mΩ                      • Jack: <20 mΩ                  |
| Insulation resistance:         | • After damp heat test: >0.5GΩ                                     |
| Dielectric strength:           | 1500 V dc                                                          |
| Capacitance:                   | >2pF                                                               |
| Mechanical                     |                                                                    |
| Engagement / separation force: | • XLR: <10N / >15N<br>• Jack: <15N / >15N                          |
| Environmental                  |                                                                    |
| Temperature range:             | -20°C to +66°C                                                     |
| Flammability:                  | UL94HB                                                             |
| Solderability:                 | Complies with IEC 68-2-20                                          |
| Materials                      |                                                                    |
| Shell:                         | Polyamid, PA 6.6 30% GR                                            |
| Contacts:                      | • Jack and XLR: CuSn6                                              |
| Contact plating:               | • XLR and switch contacts: galv. Au<br>• Jack and ground: galv. Ag |

| ORDERING INFORMATION – Combo Series                    |                |              |             |                        |
|--------------------------------------------------------|----------------|--------------|-------------|------------------------|
| Combined XLR Receptacle and 1/4" Phone Jack            |                |              |             |                        |
| Description                                            | Horizontal PCB | Vertical PCB | Solder Cups | Jack Contacts          |
| 3 pole female XLR / nonswitching mono-jack             | NCJ5FI-H       | NCJ5FI-V     | NCJ5FI-S    | T,S,G                  |
| 3 pole female XLR / nonswitching stereo-jack           | NCJ6FI-H       | NCJ6FI-V     | NCJ6FI-S    | T,R,S,G                |
| 3 pole female XLR / switching (normalling) stereo-jack | NCJ9FI-H       | NCJ9FI-V     | NCJ9FI-S    | T,R,S,G,TN,RN,SN,      |
| 3 pole female XLR / switching ground and stereo-jack   | NCJ10FI-H      | NCJ10FI-V    | NCJ10FI-S   | T,R,S,G,TN, RN, SN, GN |

Add "-O" as suffix to any part for latchless version (retention spring instead of "Push" Tab). i.e. NCJ6FI-H-O



Speakon® 2-Pole



Speakon® 4-Pole Cable and Adapters



Speakon® 8-Pole



Speakon® 4-Pole Chassis

Speakon® is not to be used as a “main” (AC) connector.

Speakon®

This series of professional speaker and amplifier connectors is recognized as the industry standard. The Speakon® product line features 2, 4 and 8 pole versions. Patent protected, reliable, cost effective, and extremely durable the Speakon® system offers the “quick lock” locking system and recently redesigned inserts on its cable ends. The inserts feature solderless connections using new pozidrive and slot combination screw terminals with a captivated pressure plate. No special tools are required making these connectors 100% field repairable. We do offer a screwdriver as an accessory - use part # SD-NLP for your convenience.

Speakon® panel receptacles with solder terminations also allow you to use quick disconnect type terminals (Faston®) for easy and reliable assembly. These quick disconnects can be ordered from Neutrik USA, Inc.® - use part # NL-FASTON. Speakon 4 pole receptacles are available with PCB vertical and horizontal terminations or screw terminals. A new increased current version is also available. OEM specials may be available, please contact Neutrik USA, Inc.® for details. The contacts in this series are touch proof and designed to prevent damage from arcing if disconnected under load. Ensuring fail safe conditions for both the equipment and the operator, Speakon® meets the prevailing safety standards of IEC65, IEC348, CE, CSA and are UL rated (file #E135070).

Wiring Suggestions

Positive signal on speaker pin “+” produces positive waveform from driver (moves cone outwardly)  
“+” = In phase (high) “-” = Ground (out of phase, low)  
Lower numbers for lower frequencies

|                       | Amplifier                                                                                         | Cable                                                                                     | Speaker                                                                      |
|-----------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Stereo (“HiFi”)       | One NL4MP socket<br>left channel pins 1+/1-<br>right channel pins 2+/2-                           | NL4FC on amplifier end, four conductor cable splits into two pairs with NL4FC on each end | one NL4MP per speaker<br>left speaker pins 1+/1-<br>right speaker pins 2+/2- |
| POWER (“PA”) Standard | three NL4MP socket<br>“A” socket: left channel pins 1+/1-<br>“B” socket: right channel pins 1+/1- | A two-conductor cable for each channel with NL4FC on both ends                            | NL4MP pin 1+ to speaker coil “+”<br>NL4MP pins 1- and 2+ to speaker coil “-” |
| Bridged mono          | “M” socket:<br>left channel pins 1+/1-<br>right channel pins 2+/2-                                | A special two conductor cable, on both ends wired to pins 1+/2+ of NL4FC                  | NL4MP pin 1+ to speaker coil “+”<br>NL4MP pins 1- and 2+ to speaker coil “-” |
| Bi-Amp                | one NL4MP socket<br>low frequency pins 1+/1-<br>high frequency pins 2+/2-                         | a four-conductor cable on both ends wired to pins 1+/1-, 2+/2- of NL4FC                   | one NL4MP socket<br>low frequency pins 1+/1-<br>high frequency pins 2+/2-    |

Schematics available online – [www.neutrik.com](http://www.neutrik.com) in the FAQ section – or by fax from Neutrik USA, Inc.®

Neutrik has added to the Speakon® line with the 2002 introduction of the **STX** and **SPX** series. Information is available on a separate brochure or on our website – [www.neutrikusa.com](http://www.neutrikusa.com) – or contact Neutrik USA, Inc.® for details.

ORDERING INFORMATION – Speakon®

| Type        | Terminations    | Description                                                                 | 2 pole     | 4 pole     | 8 pole      |
|-------------|-----------------|-----------------------------------------------------------------------------|------------|------------|-------------|
| Cable       | Screw           | quicklock feature                                                           | NL2FC      | NL4FC      | NL8FC       |
|             | Screw           | with quicklock feature & gold contacts – all black body                     | N/A        | NL4FC-B    | N/A         |
| Chassis     | Solder / Faston | airtight – square flange                                                    | NL2MP      | NL4MP      | N/A         |
|             | Solder / Faston | airtight – square flange – mounting holes in opposite corners               | N/A        | NL4MP-2    | N/A         |
|             | Solder / Faston | airtight – square flange & gold contacts                                    | N/A        | NL4MP-B    | N/A         |
|             | Solder / Faston | airtight – round flange – all plastic                                       | N/A        | NL4MPR     | N/A         |
|             | Solder / Faston | airtight – round flange – nickel bezel                                      | N/A        | N/A        | NL8MPR      |
|             | Solder / Faston | airtight – round flange – black chrome bezel                                | N/A        | N/A        | NL8MPR-BAG  |
|             | Solder / Faston | airtight – square flange                                                    | NL2MD-V    | NL4MD-V    | N/A         |
|             | Vertical PCB    | airtight – square flange – grey housing – mtg holes for self tapping screws | N/A        | NL4MD-V-1  | N/A         |
|             | Vertical PCB    | airtight – square flange – mounting holes in opposite corners               | N/A        | NL4MD-V-2  | N/A         |
|             | Vertical PCB    | airtight – round flange – all plastic                                       | N/A        | NL4MPR-V   | N/A         |
|             | Vertical PCB    | airtight – round flange – nickel bezel                                      | N/A        | N/A        | NL8MD-V     |
|             | Vertical PCB    | airtight – round flange – black chrome bezel                                | N/A        | N/A        | NL8MD-V-BAG |
|             | Horizontal PCB  | airtight – square flange                                                    | NL2MD-H    | NL4MD-H    | N/A         |
|             | Horizontal PCB  | airtight – square flange – mounting holes in opposite corners               | N/A        | NL4MD-H-2  | N/A         |
|             | Horizontal PCB  | airtight – round flange – nickel bezel                                      | N/A        | N/A        | NL8MD-H     |
|             | Horizontal PCB  | airtight – round flange – black chrome bezel                                | N/A        | N/A        | NL8MD-H-BAG |
| Boot        | Solder / Faston | airtight – handles 40A for audio or 50A for audio w/2 contact load          | N/A        | NL4MP-UC   | N/A         |
|             | Screw           | airtight – no special tools required – ideal for field applications         | N/A        | NL4MP-ST   | N/A         |
| Adapter     |                 | drip boot for wet environments – use with NL4FC                             | N/A        | BSL-WR     | N/A         |
|             |                 | coupler for cable extensions                                                | NL4MMX     | NL4MMX     | NL8MM       |
| Accessories |                 | 4 pole Speakon to 1/4” - connects +1 to Tip, -1 to Sleeve                   | NA4LJ      | NA4LJ      | N/A         |
|             |                 | Mounting screws to mount chassis connectors to panel                        | Screw-2.9m | Screw-2.9m | Screw-2.9m  |
|             |                 | 4.8mm x 0.5mm tab for use with solder type receptacles                      | NL-FASTON  | NL-FASTON  | NL-FASTON   |

|                                                                             | NL*FC | NL*MP    | NL*MPR       | NL*MD       |
|-----------------------------------------------------------------------------|-------|----------|--------------|-------------|
| Electrical                                                                  |       |          |              |             |
| Rated current/contact:                                                      |       |          |              |             |
| 30A rms continuous / 40A rms 1 minute                                       | X     | X        | X            | X           |
| 50A rms continuous for audio signal w/2 contacts                            | N/A   | NL4MP-UC | N/A          | N/A         |
| Dielectric Strength: 4KV peak                                               | X     | X        | X            | X           |
| Rated voltage: 250V ac (Speakon is not to be used as an AC mains connector) | X     | X        | X            | X           |
| Contact resistance:                                                         |       |          |              |             |
| <3 mΩ after 5,000 insertion/withdrawals                                     | X     | X        | X            | X           |
| <10 mΩ after 5,000 insertion/withdrawals                                    |       |          |              | NL4MD-H     |
| Insulation resistance: 250 V ac                                             |       |          |              |             |
| initial: >2GΩ                                                               | X     | X        | X            | X           |
| after damp heat test: >1GΩ                                                  | X     | X        | X            | X           |
| Inrush/outrush current capability (12v source): 300/30 A/200 ms             | X     | X        | X            | X           |
| Creepage distance is according to IEC 664-1                                 | X     | X        | X            | X           |
| Mechanical                                                                  |       |          |              |             |
| Retention method - quicklock with latch                                     | X     | N/A      | N/A          | N/A         |
| Cable anchoring - Neutrik chuck principle                                   | X     | N/A      | N/A          | N/A         |
| Cable OD range:                                                             |       |          |              |             |
| 6 - 10 mm                                                                   | NL2FC | N/A      | N/A          | N/A         |
| 6 - 15 mm: white chuck (6 - 11mm); black chuck (9.5 - 15mm)                 | NL4FC | N/A      | N/A          | N/A         |
| 8 - 20 mm: w/reducing sleeve (8 - 15mm); w/o sleeve (15 - 20mm)             | NL8FC | N/A      | N/A          | N/A         |
| Cable retention force of >220N is subject to cable diameter & material      | X     |          |              |             |
| Wiring:                                                                     |       |          |              |             |
| chassis: solder = flat tabs for Faston 4.8mm x 0.5mm (.187")                | N/A   | X        | X            | N/A         |
| chassis: solder = flat tabs for Faston 6.3mm x 0.8mm (.25")                 | N/A   | NL4MP-UC | N/A          | N/A         |
| chassis: PCB pins 1.6mm x 0.5mm                                             | N/A   | N/A      | NL4MPR-V     | X           |
| chassis: screw terminals - 4mm² / AWG12                                     | N/A   | NL4MP-ST | N/A          | N/A         |
| Material                                                                    |       |          |              |             |
| Contacts: CuZn39Pb3/CuSn8 4um Ag plated                                     | X     | X        | X            | X           |
| Securing element: ZnAl4Cu1, Ni plated                                       | X     |          |              |             |
| Spring element: Neoprene ring                                               | N/A   | X        | X            | X           |
| Housings:                                                                   |       |          |              |             |
| PA 6 30% GR                                                                 | X     | X        | NL4MPR (all) | NL4MD (all) |
| ZnAl4Cu1, Ni or black chrome plated                                         |       |          | NL8MPR (all) | NL8MD (all) |
| Insert: PBTP 20% GR                                                         | X     | N/A      | N/A          | N/A         |
| Boot: PA 6 15% GR                                                           | X     | N/A      | N/A          | N/A         |
| Chuck: POM                                                                  | X     | N/A      | N/A          | N/A         |
| Temperature Range = -30° C to +80° C                                        | X     | X        | X            | X           |



PowerCon®

PowerCon® is a lockable 3 pole equipment (AC) connector with contacts for line, neutral, and premating safety grounds. It is rated at 20A/250V ac. Color coded for easy identification, PowerCon® offers power-in (blue) and power-out (grey) versions with different keying to avoid the possibility of short circuiting. The contacts are designed to prevent damage from arcing when disconnected while under load. **PowerCon® is not designed to be a “mains” connector or for speaker/amplifier applications. For speaker/applications please see Speakon on pages 20-22.**

This series of connectors is rugged and reliable and is UL recognized, SEV and VDE approved and meets prevailing safety standards.

The cable ends use the “quick-lock” latch for fast and easy locking. PowerCon® inserts feature solid contacts with screw type terminals. No special assembly tools are required. The chassis connectors have large solder tabs which accept FastOn® type quick disconnects for even easier hard wiring.

PowerCon® meets or exceeds the demands of applications in the fields of A/V usages, test and measurement equipment, computers, or industrial designs.

| ORDERING INFORMATION – PowerCon®                        |                             |                              |
|---------------------------------------------------------|-----------------------------|------------------------------|
| Description                                             | Part #                      |                              |
|                                                         | A-type: for power in (Blue) | B-type: for power out (Gray) |
| Cable connector, quick lock with securing lever         | NAC3FCA                     | NAC3FCB                      |
| Chassis connector, air tight                            | NAC3MPA                     | NAC3MPB                      |
| Coupler for linking cables (Couples NAC3FCA to NAC3FCB) | NAC3MM                      |                              |

| POWERCON® Specifications                                                |                                                                                       |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| UL-Recognized (E 135070) VDE rated (6360) SEV approved (No. 96.1 10096) |                                                                                       |
| Electrical                                                              |                                                                                       |
| Number of contacts:                                                     | 3                                                                                     |
| Rated current/contact:                                                  | 20 A rms @ wire size 2.5 mm²                                                          |
| Rated Voltage:                                                          | 250 V ac                                                                              |
| Contact resistance after 5000 insertion-withdrawal operations: ≤3 mΩ    |                                                                                       |
| Insulation resistance:                                                  | • Initial: >2GΩ • After damp heat test: >100MΩ                                        |
| Creepage distance:                                                      | according to IEC 664-1                                                                |
| Safety ground:                                                          | Premating                                                                             |
| Dielectric strength:                                                    | 4 KV peak                                                                             |
| Mechanical                                                              |                                                                                       |
| Wiring:                                                                 |                                                                                       |
| • Cable:                                                                | screw-type terminals or soldering<br>Max wire size/contact: 4 mm² / 12 AWG (stranded) |
| • Chassis:                                                              | flat tabs for FASTON®, 0.187" x 0.02" (4.8mm x 0.5mm) or soldering                    |
| Cable OD range:                                                         | 5-15mm                                                                                |
| • White chuck:                                                          | 5mm (.19") – 11mm (.433)                                                              |
| • Black chuck:                                                          | 9.5mm (.374") – 15mm (.787")                                                          |
| Cable anchoring:                                                        | NEUTRIK®, chuck principle                                                             |
| Cable retention force:                                                  | ≥220N, depending on cable diameter and material                                       |
| Retention method:                                                       | Quicklock with securing lever                                                         |
| Environmental                                                           |                                                                                       |
| Temperature range:                                                      | -30°C to +80°C                                                                        |
| Materials                                                               |                                                                                       |
| Housing:                                                                | PA 6 30% GR                                                                           |
| Insert (FC part):                                                       | PBTB 20% GR                                                                           |
| Bushing:                                                                | PA 6.6 15% GR                                                                         |
| Chuck:                                                                  | POM                                                                                   |
| Contact:                                                                | CuZn39Pb3 / CuSn8, 4µm/20mm Ag plated                                                 |
| Securing lever:                                                         | ZnAl4Cu1, CuNi plated                                                                 |

Miniature Circular Connectors



NanoCon®

NanoCon® is the smallest – measuring just 0.236" in diameter x 1.22" (6mm x 31mm) – lockable multi-pin connector in the world! Another member of the Neutrik® family of miniature circular connectors, NanoCon® offers a selective load of 1 - 3 gold contacts in mating cable ends, PCB vertical or horizontal male and female receptacles, or male and female solder termination receptacles.

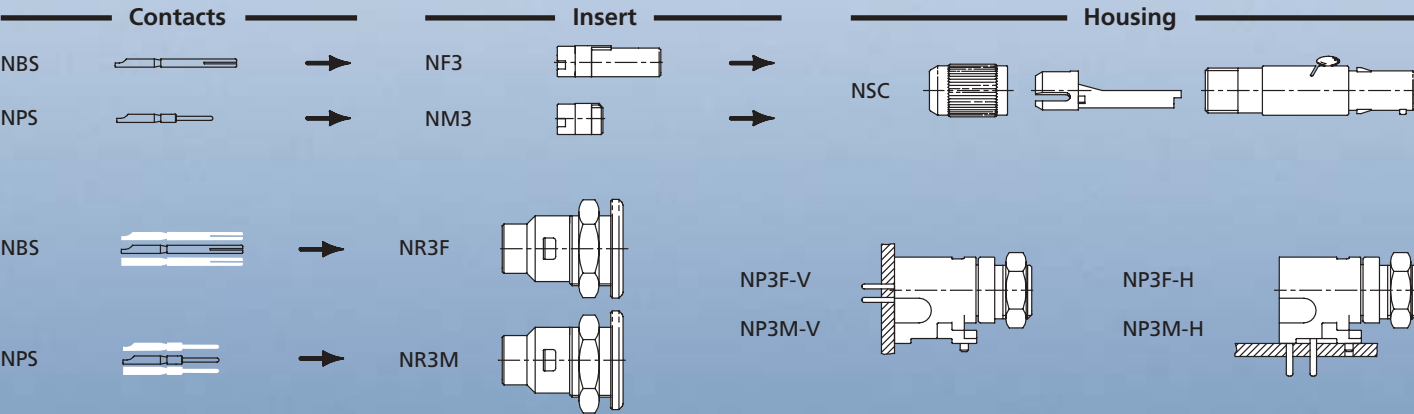
The machined metal nickel plated housings hold inserts which contain machined gold contacts. Pin #1 mates first, breaks last. Panel receptacles with blank inserts, mating cable ends with interchangeable inserts and fully loaded PCB receptacles are available.

The NanoCon® cable connectors utilize the unique Neutrik® chuck type strain relief and all housings have polarizing guides for ease of assembly and then mating.

These micro connectors are manufactured without jeopardizing quality or reliability. The versatility of the NanoCon® system allows them to be used in a variety of audio and industrial applications such as wireless mics, control systems, or PCB interface cards.

| ORDERING INFORMATION – NanoCon®                  |        |      |
|--------------------------------------------------|--------|------|
| Cable Connectors                                 |        |      |
| Description                                      | Female | Male |
| Cable housing – nickel with boot & chuck         | NSC    | NSC  |
| Insert – unloaded must order contacts separately | NF3    | NM3  |
| Solder contacts – gold                           | NBS    | NPS  |
| Mating cable housing – nickel with boot & chuck  | NMC    | NMC  |

| ORDERING INFORMATION – NanoCon®                            |        |        |
|------------------------------------------------------------|--------|--------|
| Receptacles                                                |        |        |
| Description                                                | Female | Male   |
| Receptacle housing with insert – must order contacts       | NR3F   | NR3M   |
| Solder contacts – gold                                     | NBS    | NPS    |
| Receptacle – vertical PCB mount – complete with contacts   | NP3F-V | NP3M-V |
| Receptacle – horizontal PCB mount – complete with contacts | NP3F-H | NP3M-H |



7 3 2 - 9 0 1 - 9 4 8 8

Miniature Circular Connectors



Neutricon®

Neutricon® is a modular system with a minimum of parts offering the user a maximum of variations.

The male and female inserts can be selectively loaded with 1 - 8 gold contacts for solder, crimp (according to MIL-C22520F) or PCB vertical terminations.

Assembly is quick and easy and requires no screws. Your choice of a nickel or black chrome plated receptacle or cable end housing absorbs vibrations and mechanically protects the contacts. These housings offer 90° or 180° polarizing guides to fit your application needs.

The cable connectors utilize the unique Neutrik® chuck type strain relief, will accommodate cable diameters of 3-7mm, and are equally suitable for flat ribbon cables. Additional crimp ferrules for coaxial shield terminations are available as an option.

The Neutricon® non-threaded, self-activating, push-pull locking system is vibration proof. A splash proof version (per IP65) is available, just contact Neutrik USA, Inc.® for the details. Color coded boots (use part # BSP-color – see page 39) are an optional accessory.

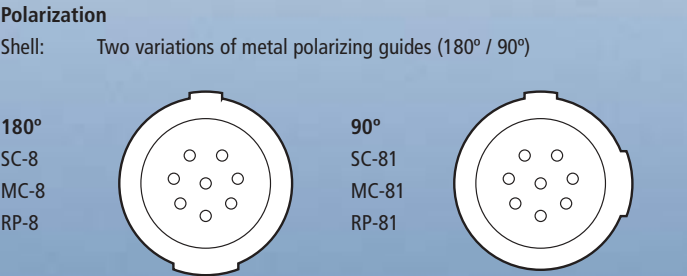
| ORDERING INFORMATION – Neutricon®                           |                                            |                                  |
|-------------------------------------------------------------|--------------------------------------------|----------------------------------|
| Cable Connectors                                            |                                            |                                  |
| Description                                                 | Female                                     | Male                             |
| Cable housing, Nickel#                                      | SC-8Ni                                     | SC-8-Ni                          |
| Cable housing, Black Chrome#                                | SC-8                                       | SC-8                             |
| Strain relief & Boot                                        | SR-8                                       | SR-8                             |
| Strain relief & Boot w/ crimp ferrule for coaxial grounding | SR-8A / 3-3.8mm<br>SR-8B / 6-7mm           | SR-8A / 3-3.8mm<br>SR-8B / 6-7mm |
| Inserts                                                     | FI-8                                       | MI-8                             |
| Contacts                                                    | • Solder BS1<br>• Crimp BC1<br>• Blank BB1 | PS1<br>PC1<br>N/A                |
| Mating Cable End – Cable Housing#                           | MC-8                                       | MC-8                             |
| Cable housing boot for color coding                         | BSP-*                                      | BSP-*                            |

\* Available in ten resistor colors (see page 39).  
Must order w/ SR-8 for strain relief.

For additional Ordering Information please go to [www.neutrik.com](http://www.neutrik.com) in the TECHNICAL SUPPORT section under ASSEMBLIES

| ORDERING INFORMATION – Neutricon® |                                                                    |                          |
|-----------------------------------|--------------------------------------------------------------------|--------------------------|
| Receptacles                       |                                                                    |                          |
| Description                       | Female                                                             | Male                     |
| Housing, Nickel#                  | RP-8Ni                                                             | RP-8Ni                   |
| Housing Black Chrome#             | RP-8                                                               | RP-8                     |
| Inserts                           | FI-8                                                               | MI-8                     |
| Contacts                          | • Solder BS1<br>• Crimp BC1<br>• PCB (vertical) BP1<br>• Blank BB1 | PS1<br>PC1<br>PP1<br>N/A |

# Available in 90° or 180° polarization. 180° version is standard. Add "-1" as suffix for 90° version.



[www.neutrikusa.com](http://www.neutrikusa.com)



MiniCon®

MiniCon® is a compact miniature circular connector of modular design. It offers a select load combination of contacts from 1-12.

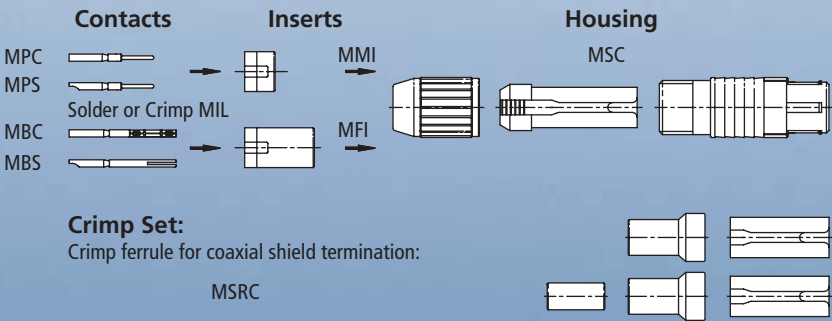
Offering a precisely machined, rugged, all metal design, MiniCon® features fully loaded male and female PCB horizontal or vertical receptacles, male and female receptacles for crimp or solder contacts and a cable housing with optional crimp ferrules for coaxial shield terminations. The cable connectors accept a wide range of cable diameters (2-7mm) and cable protection is afforded by the unique Neutrik® chuck type strain relief.

Assembling the inserts is quick as the contacts “snap in” to place from the rear. Loaded inserts are seated into their housings correctly every time using the Neutrik® keying method. Once assembled, it is the push-pull locking system that mates these connectors. Pin #1 makes ground first, breaks last.

The MiniCon® system is extremely cost effective and fits a wide variety of applications in the medical, instrumentation, industrial, and audio fields.

| ORDERING INFORMATION – MiniCon®                      |          |        |      |
|------------------------------------------------------|----------|--------|------|
| Cable Connectors                                     |          |        |      |
| Description                                          |          | Female | Male |
| Cable housing (including chuck and boot)             |          | MSC    | MSC  |
| Insert                                               |          | MFI    | MMI  |
| Contacts: 1-12 contacts                              | – crimp  | MBC    | MPC  |
| user selectable                                      | – solder | MBS    | MPS  |
| Accessories                                          |          |        |      |
| – Set of strain relief crimp ferrules, for Cable OD: |          | MSRC   |      |
| 2.5 – 3.2 mm                                         |          |        |      |
| 3.3 – 4.4 mm                                         |          |        |      |
| 4.5 – 6.0 mm                                         |          |        |      |
| Includes boot with larger rear cable opening         |          |        |      |

| ORDERING INFORMATION – MiniCon®                                 |              |         |         |
|-----------------------------------------------------------------|--------------|---------|---------|
| Receptacles                                                     |              |         |         |
| Description                                                     |              | Female  | Male    |
| Receptacle housing with insert - must order contacts separately |              | MRF     | MRM     |
| Contacts: 1-12 contacts user selectable                         | – crimp      | MBC     | MPC     |
|                                                                 | – solder     | MBS     | MPS     |
| PCB receptacle (12-pole) Completely assembled                   | – Vertical   | MPF12-V | MPM12-V |
|                                                                 | – Horizontal | MPF12-H | MPF12-H |



7 3 2 - 9 0 1 - 9 4 8 8

|                                             | NanoCon®                          | Neutricon®                                     | MiniCon®                                                                   |
|---------------------------------------------|-----------------------------------|------------------------------------------------|----------------------------------------------------------------------------|
| Electrical                                  |                                   |                                                |                                                                            |
| Number of contacts: user selectable         | 1-3                               | 1-8                                            | 1-12                                                                       |
| Rated current/contact:                      | 2A                                | solder – 7.5 A<br>crimp – 5 A                  | 3A                                                                         |
| Rated Voltage:                              | 75 V ac                           | 125 V ac                                       | 125 V ac                                                                   |
| Contact resistance:                         | <8 mΩ                             | <2 mΩ                                          | <6 mΩ                                                                      |
| Insulation resistance after damp heat test: | >2GΩ                              | >0.5GΩ                                         | >0.5GΩ                                                                     |
| Dielectric strength:                        | 1.5 Kv dc / 1.06 kV rms           | 1,500 v dc                                     | 1.01 Kv dc / 0.71 Kv rms                                                   |
| Mechanical                                  |                                   |                                                |                                                                            |
| Maximum wire size:                          |                                   |                                                |                                                                            |
| • Solder:                                   | 0.20 mm² / AWG 24 (solid wire)    | 1.0 mm² / 18 AWG                               | 0.50 mm² / 20 AWG                                                          |
| • Crimp:                                    | 0.14 mm² / AWG 26 (stranded wire) | 0.14 – 0.34 mm² / 22 – 26 AWG                  | 0.22 mm² / 24 AWG                                                          |
| Cable Anchoring: NEUTRIK® chuck principle   | X                                 | X                                              | X                                                                          |
| Cable OD range:                             | 3.4 mm max                        | 3 – 7 mm<br>SR8A: 3 – 3.8 mm<br>SR8B: 6 – 7 mm | gray chuck: 2 – 5 mm<br>white chuck: 5 – 7 mm<br>crimp contact: 2.5 – 6 mm |
| Cable retention force:                      | <100N for 3 mm Cable              | <150N for 5 mm Cable                           | <150N for 5 mm Cable                                                       |
| Retention method: self-locking              | X                                 | X                                              | X                                                                          |
| Protective system (mated): IP50             | X                                 | X (higher classes on request)                  | X                                                                          |
| Life time: >1000 cycles                     | X                                 | X                                              | X                                                                          |
| Male contact diameter:                      | 0.5 mm                            | 1 mm                                           | 0.8 mm                                                                     |
| Environmental                               |                                   |                                                |                                                                            |
| Temperature range: -30°C to +80°C           | X                                 | X                                              | X                                                                          |
| Solderability: complies with IEC 68-2-20    | X                                 | X                                              | X                                                                          |
| Insert flammability: UL 94HB                | UL 94V-0                          | X                                              | UL 94V-0                                                                   |
| Materials                                   |                                   |                                                |                                                                            |
| Housings cable & receptacle                 |                                   |                                                |                                                                            |
| CuSn4Pb4Zn4 (cable connector)               | X                                 | ZnAl4Cu1, gal Cu/Ni (+ black chrome)           | CuZn35Pb3 / ZnAl4Cu1satin chromium plated                                  |
| CuZn39Pb2 (receptacle)                      | X                                 | ZnAl4Cu1, gal Cu/Ni (+ black chrome)           | satin chromium plated                                                      |
| Insert:                                     | PETP                              | PBTB 15% GR                                    | PA 6.6                                                                     |
| Chuck: POM                                  | X                                 | X                                              | X                                                                          |
| Bushing:                                    | BRASS                             | POM + PUR                                      | BRASS                                                                      |
| Contacts:                                   | CuZn35Pb2                         | CuZn39Pb3 / CuZn35Pb2,                         | CuZn39Pb3 / CuZn35Pb2 / CuSn6                                              |
| Contact surface:                            | 0.5 µm Au                         | 0.3 µm hard gold over Ni                       | 0.2 µm AuCo plated                                                         |

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Profi®

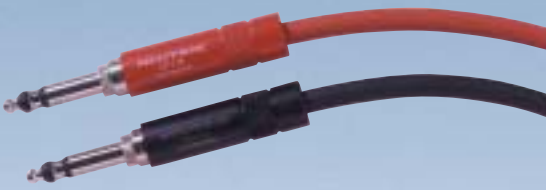
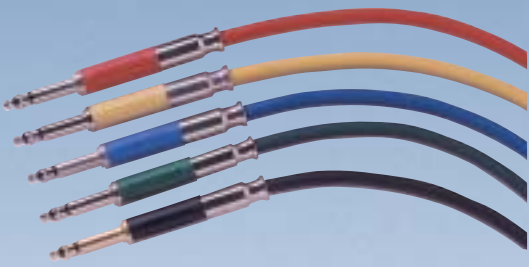
You will not find a higher quality RCA plug. The Neutrik® Profi® professional phono plugs are precisely machined to our highest standards.

Featuring a retractable sleeve, the Profi® connectors makes ground before signal contact and breaks signal before ground. This “makes first, breaks last” feature means you can eliminate unwanted noise and broken speaker cones when used under load.

In addition, Profi® offers the Neutrik® unique chuck type strain relief (includes two sizes for different diameter cables) and gold plated contacts as standard. They arrive in pairs marked red and black for right and left channel.

| ORDERING INFORMATION – Profi®                                                                                                   |          |
|---------------------------------------------------------------------------------------------------------------------------------|----------|
| Description                                                                                                                     | Part #   |
| Packaged in pairs – each marked red & black for right & left channels. Includes 2 strain reliefs for different diameter cables. | NF2CB//2 |
| Custom orders and packaging may be available. Please contact Neutrik USA, Inc.® for details.                                    |          |

| Profi® Specifications       |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Electrical                  |                                                                                                                |
| Rated current:              | 16 A                                                                                                           |
| Rated voltage:              | 250 V ac                                                                                                       |
| Insulation resistance:      | >100GΩ                                                                                                         |
| Capacitance (pin to shell): | 7 pF                                                                                                           |
| Dielectric strength:        | 1500 V dc                                                                                                      |
| Mechanical                  |                                                                                                                |
| Max. wire size:             | 2.5 mm² / 14 AWG                                                                                               |
| Cable anchoring:            | NEUTRIK® chuck principle                                                                                       |
| Cable OD range:             | <ul style="list-style-type: none"><li>• blue chuck: 3.0 – 5.5 mm</li><li>• black chuck: 5.5 – 7.3 mm</li></ul> |
| Environmental               |                                                                                                                |
| Temperature range:          | -30°C to +80°C                                                                                                 |
| Solderability:              | complies with IEC 68-2-20                                                                                      |
| Materials                   |                                                                                                                |
| Shell:                      | Brass CuZn39Pb3 black coated                                                                                   |
| Insulator:                  | PBTP                                                                                                           |
| Chuck:                      | Polyacetal POM                                                                                                 |
| Contact pin:                | Brass CuZn39Pb3 / 0.5 µm Au plated                                                                             |
| Ground contact:             | Brass CuZn39Pb3 / 0.5 µm Au plated over 5 µm Ni                                                                |



Patch Cord Assemblies

Neutrik® utilizes the highest quality craftsmanship and materials to bring you our line of professional TT and TB patch cables.

Our TT patch cords are made with a flexible yet durable cable that is manufactured using our own nickel plated TT plugs (gold plugs are also available). Neutrik® was the first worldwide to provide nickel plating as standard to help eliminate problems of corrosion and tarnish build-up. Each TT plug has a hex crimped strain relief to provide the ultimate in stress protection for the solder joints and actual

cable. Our TT patch cords are offered in five colors (red, black, blue, yellow, and green) that are matching between cord and plug sleeve for easy identification.

The NEUTRIK® professional TB (1/4" long frame) patch cables feature the same craftsmanship and attention to details as our TT cords. Standard features include an all metal black or red body with color matched cable, unique NEUTRIK® chuck type strain relief, and nickel plated contacts. Using a flexible long lasting cable you are assured of NEUTRIK® quality with each use.

| ORDERING INFORMATION – TT Patch Cords<br>Bantam style (0.173") |         |
|----------------------------------------------------------------|---------|
| Part #                                                         | Length* |
| NKTT03-#                                                       | 1’      |
| NKTT04-#                                                       | 18"     |
| NKTT05-#                                                       | 2’      |
| NKTT1-#                                                        | 3’      |
| NKTT12-#                                                       | 4’      |
| NKTT2-#                                                        | 6’      |

# Available in BLK=Black, GN=Green, R=Red, Y=Yellow, BL=Blue

| ORDERING INFORMATION – TB Patch Cords<br>(1/4") TB-style (B Gauge BPO 316) |         |
|----------------------------------------------------------------------------|---------|
| 1/4" Long Frame                                                            | Length* |
| NKTB03-#                                                                   | 1’      |
| NKTB04-#                                                                   | 18"     |
| NKTB05-#                                                                   | 2’      |
| NKTB1-#                                                                    | 3’      |

# Available in BLK=Black or R=Red

NOTE: \*Custom lengths available upon request. Minimum quantity of 20 per length & color. Contact Neutrik USA, Inc.® for details.

| TECHNICAL DATA – Patch Cord Assemblies |                    |         |                      |      |                  |     |              |           |                            |         |                             |         |            |           |
|----------------------------------------|--------------------|---------|----------------------|------|------------------|-----|--------------|-----------|----------------------------|---------|-----------------------------|---------|------------|-----------|
| Plug Size                              | Stranding (avg 24) |         | Insulation Thickness |      | Jacket Thickness |     | Nominal O.D. |           | Capacitance Cond. To Cond. |         | Capacitance Shield to Cond. |         | Shield     |           |
|                                        | inch               | mm      | inch                 | mm   | inch             | mm  | inch         | mm        | pF/ft.                     | pF/m    | pF/ft                       | pF/m    | inch       | mm        |
| TT                                     | 60 x 0.0028        | 60x0.07 | 0.008                | 0.2  | 0.028            | 0.7 | 0.18         | 4.6 + 0.2 | 40pF/ft                    | 120pF/m | 66pF/ft                     | 200pF/m | 60 x 0.001 | 60 x 0.12 |
| TB                                     | 28 x 0.039         | 28x0.17 | 0.01                 | 0.25 | 0.063            | 1.6 | 0.25         | 6.5 + 0.2 | 53pF/ft                    | 160pF/m | 93pF/ft                     | 280pF/m | 85 x 0.039 | 85 x 0.1  |



NPPA-TT Series

All panels are provided with high quality, long life NEUTRIK® NJ3TTA gold plated double contact point TRS jacks (2x48). The NEUTRIK® Easy-Patch system is easily programmable for any one of five signal routing configurations (unit ships in the half-normalled – bottom row configuration) and for the grounding system of your choice. Each individual jack can be changed or reconfigured quickly even while the unit is “on air.” The Easy-Patch offers two contact points per (TRS) terminal with a uniquely designed mechanism for the normalling contact. To change or repair a jack, simply remove the front panel to reveal the module, replace or reconfigure the jack(s) and replace the panel. It’s that easy! The Easy-Patch is a compact, low cost patching system - 1U high and only 7” deep – for 19” rack mounting and can

- GROUNDING OPTIONS**  
The flexible grounding system provides the following alternatives:
- Individual: Each channel is individually grounded through its cable shield.
  - Group: Selected channel grounds are connected via the bus PCB using solder bridges and track cuts to form a group that is connected to one common cable shield.
  - Central: All channel grounds (individual top and bottom row) are connected via the bus PCB using solder bridges and wired with only one cable shield.
  - Chassis-Common: The same as central grounding but with the addition of the common ground (top and/or bottom rows) connected to the patch panel chassis by means of jumpers.

handle analog or digital signals. The patch panel is housed in a robust black-coated steel/aluminium shell, features precision aluminum hardware, and includes two built in cable bars and two wide channel ID strips.

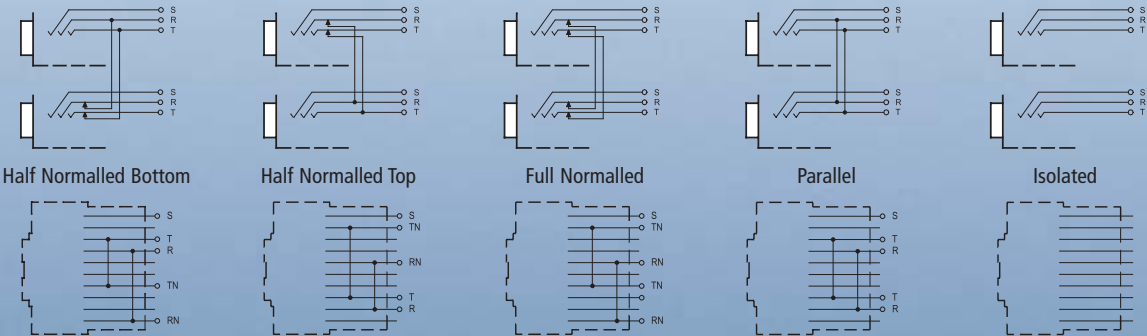
**Configurations**  
The standard version of our “Easy-Patch” is delivered with the bottom row half normalled for each jack pair. There are four other normalling configurations available for each jack pair:

- Full Normalled
- Half Normalled Top Row
- Isolated
- Parallel

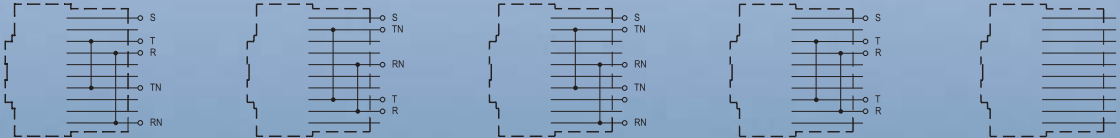
**CAUTION:** DO NOT use parallel configurations or other parallel paths in the half-normalled configuration when handling DIGITAL signals. Parallel paths may lead to mismatching. Please see the configuration chart included with each unit.

- WIRING TERMINATIONS**  
Our Easy-Patch system offers different different wiring interconnects at the rear of the unit:
- Spring loaded push terminals with gas tight connection\*
  - 56 pin Elco/Edac connectors
  - Solder lugs
- \*The spring loaded terminal blocks allow quick and easy wiring. NO soldering and screwing necessary and NO special tools are required. Simply insert the STRIPPED wire after depressing the release tab. These push terminal blocks can handle stranded wire up to AWG 20 (0.5 mm²) and solid wire up to AWG 18 (0.75 mm²).

Configurations Chart



Jumper Configuration



732-901-9488

ORDERING INFORMATION – NPPA-TT Series

| Type No.      |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| NPPA-TT-PT-PH | Patch panel, 2x48 jacks, half normalled, 288 push terminals for easy wiring.           |
| NPPA-TT-E56   | Patch panel, 2x48 jacks, half normalled, 6x56 pole ELCO male connectors.               |
| NPPA-TT-S     | Patch panel, 2x48 jacks, half normalled, 288 solder terminals for fixed installations. |

ORDERING INFORMATION – Pre-Configured Jack-Pairs

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| NJ3TTA-4-HNB | Blocks of 2 channels; half normalled bottom row; cover ident color: clear |
| NJ3TTA-4-HNT | Blocks of 2 channels; half normalled top row; cover ident color: yellow   |
| NJ3TTA-4-FN  | Blocks of 2 channels; full normalled bottom row; cover ident color: green |
| NJ3TTA-4-P   | Blocks of 2 channels; parallel; cover ident color: red                    |
| NJ3TTA-4-I   | Blocks of 2 channels; isolated; cover ident color: orange                 |

TECHNICAL DATA:

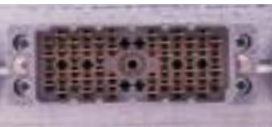
| Electrical                    |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| Frequency range:              | DC to >50 MHz                                                     |
| Channel separation:           | >100 dB @ 10 kHz, 600Ω terminated >40 dB @ 6 MHz, 110Ω terminated |
| Insulation resistance:        | >1GΩ @ 500 V dc                                                   |
| Connector contact resistance: | 20 mΩ                                                             |
| Switch contact resistance:    | <25 mΩ                                                            |
| Dielectric strength:          | 1000 V dc                                                         |

| Mechanical                  |                                    |
|-----------------------------|------------------------------------|
| Lifetime:                   | >5.000 Insertion/withdrawal cycles |
| Depth:                      | 178 mm (7")                        |
| Insertion/withdrawal force: | <10N / >8N                         |
| Dimensions (rack mount):    | 482 mm (W) x 44 mm (H) (19" x 1U)  |
| Temperature range:          | -30°C to +80°C                     |

| Materials      |                                                    |
|----------------|----------------------------------------------------|
| Jack housing:  | PA 66 blend                                        |
| Jack contacts: | CuSn6 - TRIBOR® plated (0.2 μm AuCo over 2 μm NIP) |
| Housing:       | Steel and aluminum, black coated                   |
| Front panel:   | AlMgSi0.5 F22                                      |



Spring loaded push terminals (PH)

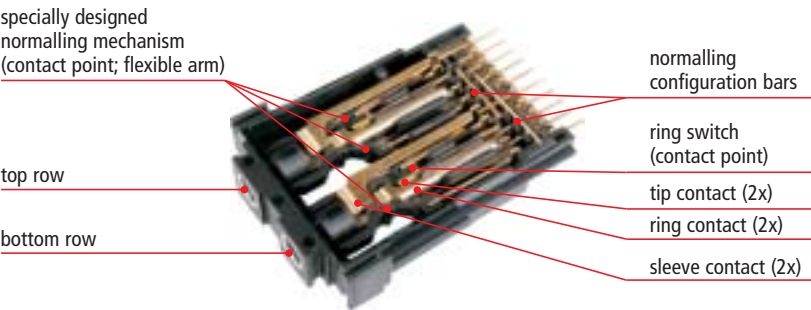


56+ pin Elco/Edac (E56)

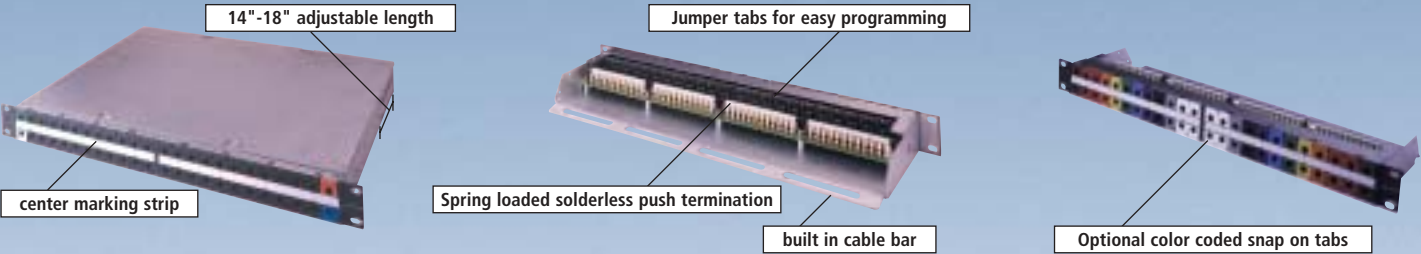


Solder lugs (S)

NJ3TTA Series Jack



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NPP-TB Series

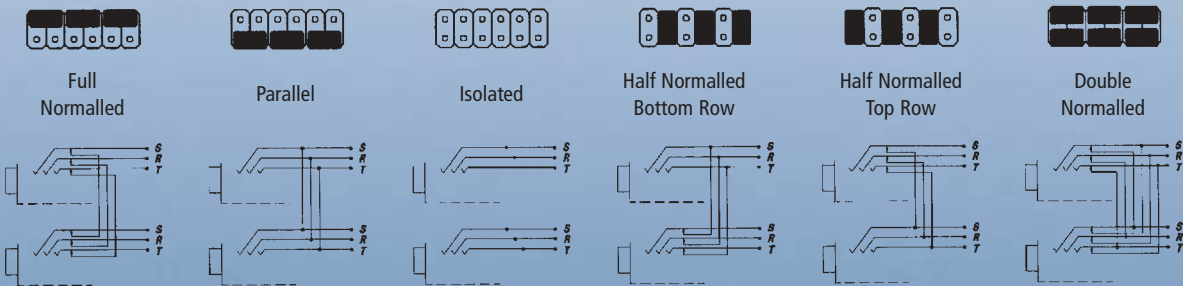
The "Easy Patch" is a durable compactly designed 19" rack mount (19" x 1U) series of patch panels. Each unit is made in a galvanized metal housing and includes a built in cable tray. The front panel has a removable center marking strip and individual snap on tabs for color coding.

This system is programmable with jumpers in any of 6 different configurations and offers 4 flexible grounding possibilities to fit your needs. Fast rear connections are either solderless spring loaded gold terminal blocks or Elco/Edacs (both for fully normalled versions). A half-normalled solder lug version is also available.

- GROUNDING:** The flexible grounding possibilities are:
- Individual:** Each channel ground is a separate connection with its corresponding cable shield.
  - Group:** To group channels together you must link the shields of the common ground bar by the solder joints and then you must cut the tracks at the point where you want to form the group. The ground bar must be connected to one common cable shield.
  - Common:** Connects all shields to the common ground bar. The ground bar must be connected to one common cable shield.
  - Chassis-Common:** Chassis ground is connected to the common ground. This is the same as for common grounding but with an additional connection to the common ground of the patch panel chassis using a jumper.

Configuration Chart

Switching: Programmable for all commonly used configurations.



The "Easy Patch" is both analog and digital capable. The standard unit is 7" in depth and the expandable units measures from 14" - 18" to fit various rack spaces.

In addition to color coded labeling tabs in the ten resistor colors, accessories include a dust cover and a rear extension bar for strain relief for the 7" versions (the extendible versions come with a cover and the rear extension bar).

All these features lead to a TB patch panel that is cost effective, labor saving, easy to program and durable for your application.

- WIRING:** The "Easy Patch" offers four wiring choices.
- STANDARD:** Spring loaded push terminals with a gas tight connection. The spring loaded terminal blocks make it fast and easy to connect, change, or replace a wire. NO soldering or screws necessary. Simply depress the white key and insert the stripped wire into the space to make a gas tight connection. Stranded wire up to AWG 20 (0.5 mm<sup>2</sup>) and solid wire to AWG 18 (0.75 mm<sup>2</sup>) is possible.
- OPTIONS:** 90 pin Elco/Edac connectors (-14" versions only) – female terminations\*  
Solder lug -HN <half-normalled> versions only
- \*Pin outs available upon request

ORDERING INFORMATION – NPP-TB Series

| 2 x 24 NJ6TB-V Jacks, Mates w/ 1/4" BP0316 & MIL-P-642/2 plugs |                                 |                                                   |
|----------------------------------------------------------------|---------------------------------|---------------------------------------------------|
| Type No.                                                       | Wiring                          | Configuration                                     |
| NPP-TB                                                         | Spring loaded Push terminations | Programmable for all commonly used configurations |
| NPP-TB-HN                                                      | Solder contacts                 | Half Normalled Bottom Row only                    |
| NPP-TB-14PT                                                    | Spring loaded Push terminations | Programmable for all commonly used configurations |
| NPP-TB-14E                                                     | Elco/Edac 90 pin female         | Programmable for all commonly used configurations |

ORDERING INFORMATION – Accessories

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| NPP-LB            | Channel ID snap on tabs. Available in ten resistor colors. Sold individually, or in multi-color packages.                  |
| NPP-C             | Metal dust cover for 7" standard versions (extendible versions come with cover).                                           |
| NPP-S             | Rear extension bar to act as strain relief for large cables (standard with extendible versions).                           |
| NKTB patch cables | TB patch cables available in red or black in lengths of 1', 18", 2', or 3'. See Patch Cable section for details (page 29). |

TECHNICAL DATA:

| Electrical                                |                                            |                                    |                                                 |
|-------------------------------------------|--------------------------------------------|------------------------------------|-------------------------------------------------|
| Connector contact resistance:             | <10 mΩ                                     |                                    |                                                 |
| Switch contact resistance:                | <15 mΩ                                     |                                    |                                                 |
| Insulation resistance:                    | >1GΩ @ 500 V dc                            |                                    |                                                 |
| Dielectric strength:                      | 1000 V dc                                  |                                    |                                                 |
| Cross talk between stereo pairs:          | >120 dB @ 1 kHz: 600Ω terminated           |                                    |                                                 |
| Cross talk between two adjacent channels: | >120 dB @ 1 kHz                            |                                    |                                                 |
| Mechanical                                |                                            |                                    |                                                 |
| Insertion / withdrawal:                   | • Force: 10N / 8N                          |                                    | • Lifetime: >5000 insertion / withdrawal cycles |
| Dimensions:                               | 485 (W) x 44 (H) mm (19" x 1U), rack mount |                                    |                                                 |
| Depth:                                    | • 139.7 mm (5.5") for Standard             | • 355.6 mm (14") for "-14" version | • 457.2 mm (18")                                |
| Environmental                             |                                            |                                    |                                                 |
| Temperature range:                        | -30°C to +80°C                             |                                    |                                                 |
| Material                                  |                                            |                                    |                                                 |
| Housing, Cable bar, Dust cover:           | Steel, AlZn galvanized                     |                                    |                                                 |
| Front Panel:                              | Pocan B 3225                               |                                    |                                                 |
| Coding tabs:                              | Grilon PVZ-15H                             |                                    |                                                 |

Wiring Variants



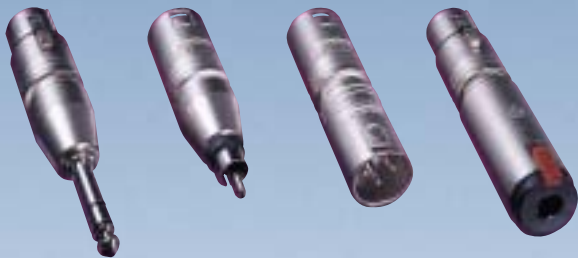
90 pin Elco/Edac



Spring loaded push terminals (PH)



-HN solder lug



Adapters

Neutrik® offers a variety of adapters that will reliably interface with various connector combinations. These adapters are available in either wired or non-wired versions depending on your needs. Made with the same rugged diecast shells of our “X” series connectors, these adapters offer the professional look, compact design and durability that you’ve come to expect from Neutrik®.

| ORDERING INFORMATION – Adapter                                                      |          |                      |                            |
|-------------------------------------------------------------------------------------|----------|----------------------|----------------------------|
| Type                                                                                | Part No. | Connection Type      |                            |
|                                                                                     |          | Part 1               | Part 2                     |
| Gender Conversion                                                                   | NA3FF    | XLR 3 pin female     | XLR 3 pin female           |
|                                                                                     | NA5FF    | XLR 5 pin female     | XLR 5 pin female           |
|                                                                                     | NA5FM    | XLR 5 pin female     | XLR 5 pin male             |
|                                                                                     | NA3MM    | XLR 3 pin male       | XLR 3 pin male             |
|                                                                                     | NA5MM    | XLR 5 pin male       | XLR 5 pin male             |
| Part #s as shown are UNWIRED. For wired adapters add "/W" to part # - i.e. NA3FF/W. | NA3M5F   | XLR 3 pin male       | XLR 5 pin female           |
|                                                                                     | NA3F5M   | XLR 3 pin female     | XLR 5 pin male             |
|                                                                                     | NA3FM    | XLR 3 pin female     | XLR 3 pin male             |
|                                                                                     | NA3F5F   | XLR 3 pin female     | XLR 5 pin female           |
|                                                                                     | NA3M5M   | XLR 3 pin male       | XLR 5 pin male             |
| Extension                                                                           | NA3FJ    | XLR 3 pin female     | stereo 1/4" locking jack   |
|                                                                                     | NA3MJ    | XLR 3 pin male       | stereo 1/4" locking jack   |
|                                                                                     | NA2FP*   | XLR 3 pin female     | mono 1/4" plug             |
|                                                                                     | NA2MP*   | XLR 3 pin male       | mono 1/4" plug             |
|                                                                                     | NA3FP    | XLR 3 pin female     | stereo 1/4" plug           |
| Part #s as shown are UNWIRED. For wired adapters add "/W" to part # - i.e. NA3FJ/W. | NA3MP    | XLR 3 pin male       | stereo 1/4" plug           |
|                                                                                     | NA2FBNC* | XLR 3 pin female     | BNC socket                 |
|                                                                                     | NA2MBNC* | XLR 3 pin male       | BNC socket                 |
|                                                                                     | NA2FPMF* | XLR 3 pin female     | phono (RCA-) jack          |
|                                                                                     | NA2MPMF* | XLR 3 pin male       | phono (RCA-) jack          |
| Threaded Adapters                                                                   | NA2FPMF* | XLR 3 pin female     | phono (RCA-) jack          |
|                                                                                     | NA2MPMM* | XLR 3 pin male       | phono (RCA-) plug          |
|                                                                                     | NA2MPMM* | XLR 3 pin male       | phono (RCA-) plug          |
| Threaded Adapters                                                                   | NAM1     | M17x1 outside thread | outside thread 5/8" 27 UNS |
|                                                                                     | NAM4     | M17x1 outside thread | inside thread 5/8" 27 UNS  |
|                                                                                     | NAM5     | 3/8" inside thread   | outside thread 5/8" 27 UNS |

\*For adapters wired according to IEC268-12 (pin 2 is signal, pins 1 & 3 wired to ground) add "/W" to part # - i.e. NA2FP/W  
Other pinouts and special wiring options may be available as special order. Minimums may be required. Contact Neutrik USA, Inc.® for details.



Goosenecks

Neutrik® offers strong, flexible, noiseless goosenecks in three lengths to fit a variety of applications. Our goosenecks are available individually or in sets which include a locking female XLR for theft proof mic connections and a series of threaded adapters. The interior of the gooseneck is a stainless steel spiral. The exterior features a non-reflective black finish.

| ORDERING INFORMATION – Gooseneck                                                       |          |                                  |                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------|----------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Made of: CuZn39Pb2; stainless steel spiral interior; non-reflective black matte finish |          |                                  |                                                                                                                                                                                                                          |
| Type                                                                                   | Part No. | Connection Type                  | Comments                                                                                                                                                                                                                 |
| Gooseneck                                                                              | GN18     | M17x1 inside thread at both ends | 230 mm/9.055" length                                                                                                                                                                                                     |
|                                                                                        | GN36     | M17x1 inside thread at both ends | 360 mm/14.173" length                                                                                                                                                                                                    |
|                                                                                        | GN50     | M17x1 inside thread at both ends | 500 mm/19.685" length                                                                                                                                                                                                    |
| Gooseneck set                                                                          | GNS18    | M17x1 inside thread at both ends | Sets include in addition to GN 18, 36 or 50                                                                                                                                                                              |
|                                                                                        | GNS36    | M17x1 inside thread at both ends | • black NC3FX-spec. XLR female with securing ring and fixing screw to prevent theft and noise.                                                                                                                           |
|                                                                                        | GNS50    | M17x1 inside thread at both ends | • black adapter M17x1 outer to 5/8" 27 UNS inner thread with through hole and cable outlet.<br>• thread adapter M17x1 outer – 3/8" outer thread<br>• thread adapter 3/8" inner – 5/8" 27 UNS outer thread (see Pt# NAM5) |
| Adapters with GNS sets are NOT sold separately                                         |          |                                  |                                                                                                                                                                                                                          |
| Flange                                                                                 | GF1      |                                  | Panel-mounting kit: Flange Ø 63,50 mm including mounting screw M17x1, 13 mm length                                                                                                                                       |
| Mounting screw                                                                         | MSG      |                                  | M17x1 13 mm length                                                                                                                                                                                                       |



Modules

Our complete line of modules allows the user to design their own adapters to suit a variety of specific needs. Based on the Neutrik® “X” series connector system, these modules offer professional and reliable connections. These modules will accept the Neutrik® NTE series of transformers.

| ORDERING INFORMATION – Modules |          |                          |               |                                                     |
|--------------------------------|----------|--------------------------|---------------|-----------------------------------------------------|
| Type                           | Part No. | Connection Type          |               | Comments                                            |
|                                |          | Top                      | Bottom        |                                                     |
| Coupler                        | VMX      | M17x1 outside            | M17x1 outside | all metal distance sleeve keeps XLR insert in place |
| Housing                        | NM3FXI   | XLR female               | M17x1 outside |                                                     |
| Housing                        | NM3MXI   | XLR male                 | M17x1 outside |                                                     |
| Housing                        | NM2P     | Mono 1/4" plug           | M17x1 inside  |                                                     |
| Housing                        | NM3P     | Stereo 1/4" plug         | M17x1 inside  |                                                     |
| Housing                        | NM3J     | Stereo 1/4" locking jack | M17x1 inside  |                                                     |
| Switch module                  | SM2/2    | M17x1 outside            | M17x1 outside | 2x2 switch positions                                |
| Housing                        | KM       | M17x1 inside             | M17x1 inside  | long version                                        |
| Housing                        | KMX      | M17x1 inside             | M17x1 inside  | short version                                       |



Wallplates

Riveted offset mounting in stainless steel plates to allow for printing or etching, NEUTRIK USA, Inc.® offers our 3 pin male and/or female D-L-1 series receptacles, 1/4" locking jacks, or NL\*MP Speakon® receptacles as standard wallplates. Mounting in a standard single electrical box outlet, screws are included and the dual configurations can be used either vertically or horizontally.

| ORDERING INFORMATION – Wallplates |                                     |        |
|-----------------------------------|-------------------------------------|--------|
| Type                              | Description                         | Part # |
| Single                            | NL2MP Speakon® receptacle           | 102L   |
| Single                            | NC3FD-L-1- receptacle*              | 103F   |
| Single                            | NC3MD-L-1 receptacle*               | 103M   |
| Single                            | NJ3FP6C to 1/4" locking jack        | 103P   |
| Single                            | NL4MP Speakon® receptacle           | 104L   |
|                                   |                                     |        |
| Dual                              | NL2MP Speakon® receptacles          | 202L   |
| Dual                              | NC3FD-L-1- receptacles*             | 203F   |
| Dual                              | NC3FD-L-1 and NC3MD-L-1 receptacle* | 203FM  |
| Dual                              | NC3MD-L-1 receptacles*              | 203M   |
| Dual                              | NJ3FP6C to 1/4" locking jack        | 203P   |
| Dual                              | NL4MP Speakon® receptacle           | 204L   |

\*Special order of 4-7 pin receptacles available. Minimums required. Contact Neutrik USA, Inc.® for details."



AES/EBU Digital Audio Adapters

In addition to the original NADITBNC adapters, two new versions of this series are now available. The BNC to XLR 3-pin receptacle (male and female) and the BNC to XLR cable end (male and female). This series was developed to provide an excellent impedance transformer at a reasonable cost for meeting the needs between analog and digital applications. Their use also allows for longer cable runs via unbalanced coaxial lines rather than twisted pair cables that present high attenuation values at the relevant frequencies.

- The criteria for these adapters are:
- Impedance matching between 110 Ohms and 75 Ohms.
  - Transition of balanced/unbalanced circuit (balun).
  - Electrical isolation (optional, not necessary).
  - Attenuation for use of analog video distribution equipment (optional). Reduction of hum and noise.

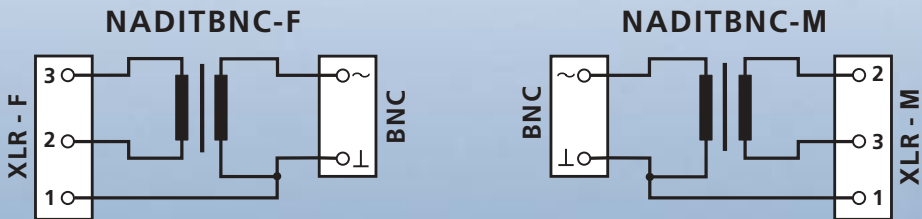
ORDERING INFORMATION – AES/EBU digital Audio Adapter

| Part #      | Description                                                                  |
|-------------|------------------------------------------------------------------------------|
| NADITBNC-F  | Female XLR Receptacle (3 pin) 110 Ohm Input to BNC Receptacle 75 Ohm Output. |
| NADITBNC-M  | BNC Receptacle 75 Ohm Input to Male XLR Receptacle (3 pin) 110 Ohm Output.   |
| NADITBNC-FX | Female XLR cable end 3-pin 110 Ohm Input to BNC Receptacle 75 Ohm Output.    |
| NADITBNC-MX | BNC Receptacle 75 Ohm Input to Male XLR cable end 3-pin 110 Ohm Output.      |

SPECIFICATIONS

|                             |                               |
|-----------------------------|-------------------------------|
| Frequency Band:             | 0.1 MHz to 15 MHz             |
| VSWR/Return Loss:           | <1.30 / >17.7 dB up to 10 MHz |
| Insertion Loss:             | <0.3dB @ 0.1 to 10 MHz        |
| Maximum Voltage/Max. Power: | 5 Vp-p / 250 mW               |

Schematics



Transformers

Neutrik® is pleased to offer a series of professional audio transformers for use in a variety of audio, studio, or line input applications. Featuring very low distortion and

excellent frequency response these transformers are also available in our NP2C plug to convert mic levels to guitar inputs.

Transformer Specifications

| Part #  | Ripple<br>20Hz-20kHz | Max. input voltage (@60Hz) |              | Min. load<br>impedance       |
|---------|----------------------|----------------------------|--------------|------------------------------|
|         |                      | THD ≤1%                    | THD ≤3%      |                              |
| NTE1    | max. -1dB            | 1.2 V                      | 1.4 V        | 200Ω                         |
| NTE4    | max. -1dB            | 1.6 V                      | 2.2 V        | 1 kΩ                         |
| NTE10/3 | max. -2dB            | 1.2 V                      | 1.6 V        | 10 kΩ                        |
|         | Turns Ratio          | Winding resistance (DC)    |              | Primary inductance<br>@ 30Hz |
|         |                      | Primary                    | Secondary    |                              |
| NTL1    | 1 : 1 ± 5%           | 1.1 kΩ ± 5%                | 1.35 kΩ ± 5% | ≥150 H                       |
| NTM1    | 1 : 1 ± 10%          | 85Ω ± 3%                   | 105Ω ± 5%    | ≥8 H                         |
| NTM4    | 1 : 4 ± 10%          | 105Ω ± 3%                  | 1.25 kΩ ± 5% | ≥8 H                         |

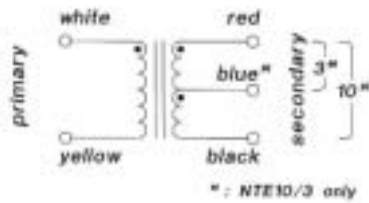
ORDERING INFORMATION – Transformers

| Type             | Part No.         | Connection Type                |                             |                                     | Comments                                                                   |
|------------------|------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------------------|
| Application      |                  | Source/load<br>Impedances in Ω | Turns Ratio<br>(prim : sec) | Max. input voltage<br>1% THD @60Hz: |                                                                            |
| Audio input      | NTE1             | 200 / 200                      | 1 : 1                       | 1.2 V                               | free wires                                                                 |
| Audio input      | NTE4             | 1k / 10K                       | 1 : 4                       | 400 mV rms                          | free wires                                                                 |
| Audio input      | NTE10/3          | 10k / 50K                      | 1 : 3 : 10                  | 500 mV rms                          | free wires                                                                 |
| 1/4" phone plug  | NP2C-T10AA(-BAG) | 200 / 50K                      | 1 : 10                      | 120 mV rms                          | with built-in transformer to convert<br>microphone levels to guitar inputs |
| 1% THD @30Hz:    |                  |                                |                             |                                     |                                                                            |
| Studio line      | NTL1             | 600 / 600                      | 1 : 1                       | 6 V rms                             | PCB mounting, fully Mu-metal shielded                                      |
| Studio mic input | NTM1             | 200 / 200                      | 1 : 1                       | 1.5 V rms                           | PCB mounting, fully Mu-metal shielded                                      |
| Studio mic input | NTM4             | 200 / 10K                      | 1 : 4                       | 1.2 V rms                           | PCB mounting, fully Mu-metal shielded                                      |

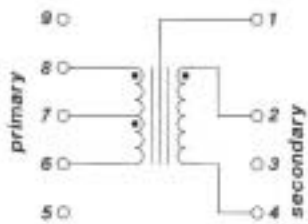
| Modules                                  |   | Adapters |
|------------------------------------------|---|----------|
| Electrical                               |   |          |
| Contact resistance:                      |   |          |
| • XLR: <3 mΩ                             | X | X        |
| • Jack: <6 mΩ                            | X | X        |
| Insulation resistance: >2GΩ              | X | X        |
| Dielectric strength: 1.5 kV dc           | X | X        |
| Mechanical                               |   |          |
| Max. wire size:                          |   |          |
| XLR: 2.5 mm² / 14 AWG                    | X | X        |
| Jack: 1.5 mm² / 16 AWG                   | X | X        |
| Environmental                            |   |          |
| Temperature range: -20°C to +65°C        | X | X        |
| Solderability: complies with IEC 68-2-20 | X | X        |
| Materials                                |   |          |
| Shell: ZnAl4Cu1, galv. Cu/Ni             | X | X        |
| Insert / Insulation: PA 6.6 30% GR       | X | X        |
| Contacts:                                |   |          |
| • female / jack: CuSn6, gal 2µm Ag       | X | X        |
| • male / plug: CuZn39Pb3, galv 2µm Ag    | X | X        |

Transformers

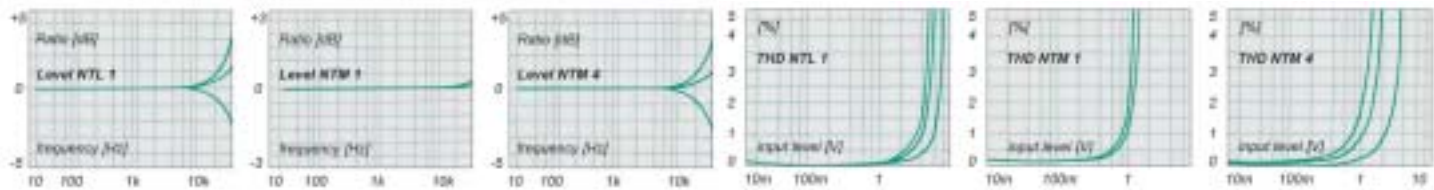
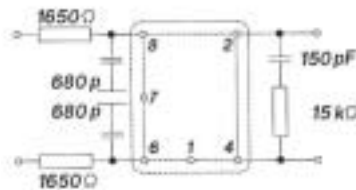
NTE1, 4, 10/3



NTL1, NTM1, 4



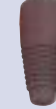
NTL1: typical application



7 3 2 - 9 0 1 - 9 4 8 8

Neutrik® offers color coded accessories for easy identification and match up for a variety of our connectors. Available in the ten resistor colors these accessories can be used on our standard 1/4" plugs or Neutricon® connectors (BSP); our "X" series cable connectors (BSX and XCR); our "D" series,

1/4" locking jack and NL\*MP connectors (DSS); or our TT size single plugs (BSTP). The PCR and XCR rings can be added to cables which are already soldered. Mix and match - you'll never make the wrong connection again when using our color coding system.

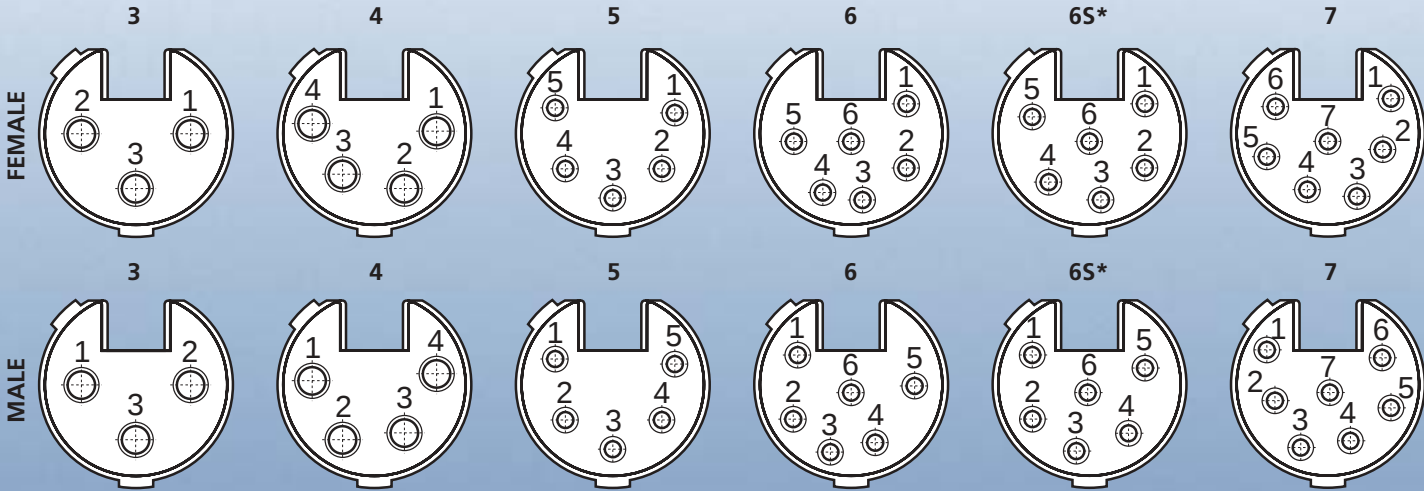
| ORDERING INFORMATION – Color coded Accessories |                                                                          |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Part #'s                                       | Description                                                              | -WT<br>(White)                                                                        | -GR<br>(Gray)                                                                         | -V<br>(Violet)                                                                        | -BL<br>(Blue)                                                                         | -GN<br>(Green)                                                                        | -Y<br>(Yellow)                                                                        | -O<br>(Orange)                                                                        | -R<br>(Red)                                                                           | -BR<br>(Brown)                                                                        | -BLK<br>(Black)                                                                       |
| ACRF-Color                                     | Colored rings for "A/B" series female receptacles                        |    |    |    |    |    |    |    |    |    |    |
| ACRM-Color                                     | Colored rings for "A/B" series male receptacles                          |    |    |    |    |    |    |    |    |    |    |
| BSP-Color                                      | Colored boots for all NP*C 1/4" plugs and Neutricon®                     |    |    |    |    |    |    |    |    |    |    |
| BSTP-Color                                     | Colored sleeves for NP3TT-P Bantam size plugs                            |    |    |    |    |    |    |    |    |    |    |
| BSX-Color                                      | Colored boots for X series cable connectors                              |    |    |    |    |    |    |    |    |    |    |
| BSZ-Color                                      | Colored boots for Easycon series                                         |  |  |  |  |  |  |  |  |  |  |
| DBA                                            | Blank plate for all "D" Series sized cutouts                             |  |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| DSS-Color                                      | Colored labeling plates for all D Series size receptacles                |  |  |  |  |  |  |  |  |  |  |
| PCR-Color                                      | Colored ring with flat label surface for NP*C series 1/4" plugs          |  |  |  |  |  |  |  |  |  |  |
| SCDF                                           | Rubber covers – for female receptacles of "D", "D-L-1", and "DM3" Series |  |                                                                                       |                                                                                       |                                                                                       | SCDM                                                                                  | Rubber covers – for male receptacles of "D", "D-L-1", "DM3", and NL*MP                |                                                                                       |                                                                                       |                                                                                       |  |
| XCR-Color                                      | Colored ring with flat label surface for X series cable connectors       |  |  |  |  |  |  |  |  |  |  |

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Part Number Guide

| NEUTRIK | Type                                                                                                                                                                                         | # of Contacts | Sex                    | Series                                                   | Terminations                                                      | Feature                                                                         | Shell/Contacts                                                  | Latch                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|----------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| N       | C                                                                                                                                                                                            | 3             | F                      | D                                                        | L                                                                 | 1                                                                               | BAG                                                             | 0                                                                                                            |
|         | A = Adapter<br>AC = "AC"<br>C = Connector<br>F = Fi (ProFi)<br>J = Jack<br>K = "Kabel"<br>(Patch Cable)<br>L = Loudspeaker<br>M = Module<br>P = Plug<br>PP = Patch Panel<br>T = Transformers | 2 – 10        | F = Female<br>M = Male | A<br>B<br>CJ<br>D<br>K<br>P<br>RC<br>TB<br>TT<br>X<br>ZL | H = Right angle PCB mount<br>L = Solder<br>V = Vertical PCB mount | Revisions:<br>"I" or "1"<br>OR<br>Grounding:<br>"-1" or "-2"<br>A/B Series only | No suffix = Ni/Silver<br>-B = Black/Gold<br>-BAG = Black/Silver | Latchless<br>(retention spring instead of "PUSH" tab. 3 pin female receptacle only. "P" series not included) |

Contact Arrangements Mating Side

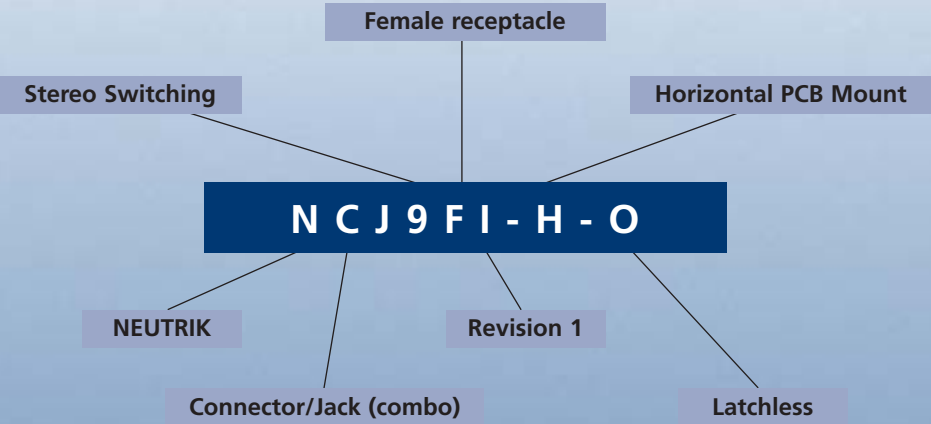
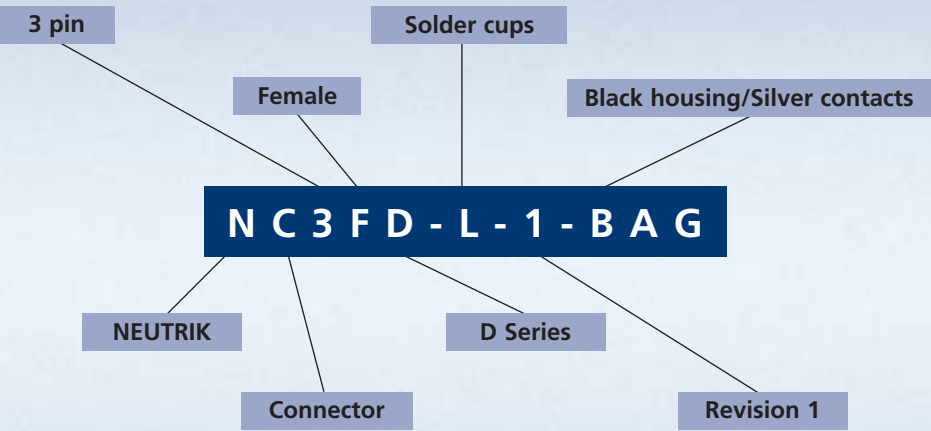


All standard inserts are black

\*Switchcraft® equivalent  
This insert is colored gray.

7 3 2 - 9 0 1 - 9 4 8 8

Basic Neutrik Part Nos.



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Index by part number

|              |    |           |    |             |    |                 |    |               |    |               |    |
|--------------|----|-----------|----|-------------|----|-----------------|----|---------------|----|---------------|----|
| 102L         | 35 | GNS-36    | 34 | NA3MJ/W     | 34 | NC3FBHL-2-B     | 8  | NC3FX-BAG     | 2  | NC3MX-14-B-D  | 2  |
| 103F         | 35 | GN-50     | 34 | NA3MM       | 34 | NC3FBHL-2-O     | 8  | NC3FX-BAG-D   | 2  | NC3MX         | 2  |
| 103M         | 35 | GNS-50    | 34 | NA3MM/W     | 34 | NC3FBHR-1       | 8  | NC3FXCC       | 3  | NC3MX-B       | 2  |
| 103P         | 35 | KM        | 35 | NA3MP       | 34 | NC3FBHR-1-O     | 8  | NC3FX-D       | 2  | NC3MX-B-D     | 2  |
| 104L         | 35 | KMX       | 35 | NA3MP/W     | 34 | NC3FBHR-2       | 8  | NC3FX-HD      | 4  | NC3MX-BAG     | 2  |
| 202L         | 35 | MBC       | 26 | NA4LJ       | 20 | NC3FBHR-2-B     | 8  | NC3FX-HD-B    | 4  | NC3MX-BAG-D   | 2  |
| 203F         | 35 | MBS       | 26 | NA5FF       | 34 | NC3FBHR-2-O     | 8  | NC3FX-S       | 4  | NC3MXCC       | 3  |
| 203FM        | 35 | MC-8      | 25 | NA5FF/W     | 34 | NC3FBV-1        | 8  | NC3FX-S-B     | 4  | NC3MX-D       | 2  |
| 203M         | 35 | MC-8Ni    | 25 | NA5FM       | 34 | NC3FBV-1-B      | 8  | NC3FX-SPEC.   | 4  | NC3MX-HD      | 4  |
| 203P         | 35 | MI-8      | 25 | NA5FM/W     | 34 | NC3FBV-1-O      | 8  | NC3MAH        | 8  | NC3MX-HD-B    | 4  |
| 204L         | 35 | MIF       | 26 | NA5MM       | 34 | NC3FBV-2        | 8  | NC3MAHL       | 8  | NC4FAH        | 9  |
| 3FD-H-I      | 11 | MIM       | 26 | NA5MM/W     | 34 | NC3FBV-2-B      | 8  | NC3MAH-O      | 8  | NC4FAV        | 9  |
| 3FD-H-I-B    | 11 | MPC       | 26 | NAC3FCA     | 23 | NC3FBV-2-O      | 8  | NC3MAHR       | 8  | NC4FBH        | 9  |
| 3FD-H-I-O    | 11 | MPF12-H   | 26 | NAC3FCB     | 23 | NC3FBY          | 8  | NC3MAV        | 8  | NC4FBV        | 9  |
| 3FD-L-I      | 11 | MPF12-V   | 26 | NAC3MPA     | 23 | NC3FBY-B        | 8  | NC3MAV-O      | 8  | NC4FBV-B      | 9  |
| 3FD-L-I-B    | 11 | MPM12-H   | 26 | NAC3MPB     | 23 | NC3FD-H         | 11 | NC3MAY        | 8  | NC4FD-L-1     | 12 |
| 3FD-L-I-O    | 11 | MPM12-V   | 26 | NAC3MM      | 23 | NC3FD-H-B       | 11 | NC3MBH        | 8  | NC4FD-L-1-B   | 12 |
| 3FD-V-I      | 11 | MPS       | 26 | NADITBNC-F  | 36 | NC3FD-H-BAG     | 11 | NC3MBH-B      | 8  | NC4FD-L-1-BAG | 12 |
| 3FD-V-I-B    | 11 | MRF       | 26 | NADITBNC-FX | 36 | NC3FD-H-BAG-O   | 11 | NC3MBHL       | 8  | NC4FDM3-H     | 13 |
| 3FD-V-I-O    | 11 | MRM       | 26 | NADITBNC-M  | 36 | NC3FD-H-O       | 11 | NC3MBHL-B     | 8  | NC4FDM3-H-BAG | 13 |
| 3MD-H-I      | 11 | MSC       | 26 | NADITBNC-MX | 36 | NC3FD-L         | 11 | NC3MBHR       | 8  | NC4FP-1       | 12 |
| 3MD-H-I-B    | 11 | MSG       | 34 | NAM1        | 34 | NC3FD-L-B       | 11 | NC3MBHR-B     | 8  | NC4FP-1-B     | 12 |
| 3MD-L-I      | 11 | MSRC      | 26 | NAM4        | 34 | NC3FD-L-BAG     | 11 | NC3MBV        | 8  | NC4FP-1-BAG   | 12 |
| 3MD-L-I-B    | 11 | NA2FBNC   | 34 | NAM5        | 34 | NC3FD-L-BAG-O   | 11 | NC3MBV-B      | 8  | NC4FRC        | 3  |
| 3MD-V-I      | 11 | NA2FBNC/W | 34 | NBS         | 24 | NC3FD-L-O       | 11 | NC3MBY        | 8  | NC4FRC-B      | 3  |
| 3MD-V-I-B    | 11 | NA2FP     | 34 | NC3FAH      | 8  | NC3FD-L-1       | 12 | NC3MBY-B      | 8  | NC4FRC-BAG    | 3  |
| ACRF-@       | 39 | NA2FP/W   | 34 | NC3FAH-1    | 8  | NC3FD-L-1-B     | 12 | NC3MD-H       | 11 | NC4FX         | 2  |
| ACRM-@       | 39 | NA2FPMF   | 34 | NC3FAH-1-O  | 8  | NC3FD-L-1-BAG   | 12 | NC3MD-H-B     | 11 | NC4FX-B       | 2  |
| BB1          | 25 | NA2FPMF/W | 34 | NC3FAH-2    | 8  | NC3FD-L-1-BAG-O | 12 | NC3MD-H-BAG   | 11 | NC4FX-BAG     | 2  |
| BC1          | 25 | NA2FPM    | 34 | NC3FAH-2-O  | 8  | NC3FD-L-1-O     | 12 | NC3MD-L       | 11 | NC4FX-HD      | 4  |
| BP1          | 25 | NA2FPM/W  | 34 | NC3FAH-O    | 8  | NC3FD-V         | 11 | NC3MD-L-B     | 11 | NC4FX-HD-B    | 4  |
| BS1          | 25 | NA2MBNC   | 34 | NC3FAHL-1   | 8  | NC3FD-V-B       | 11 | NC3MD-L-BAG   | 11 | NC4MAH        | 9  |
| BSL-WR       | 20 | NA2MBNC/W | 34 | NC3FAHL-1-O | 8  | NC3FD-V-BAG     | 11 | NC3MD-L-1     | 12 | NC4MAV        | 9  |
| BSP-@        | 39 | NA2MP     | 34 | NC3FAHL-2   | 8  | NC3FD-V-BAG-O   | 11 | NC3MD-L-1-B   | 12 | NC4MBH        | 9  |
| BSTP-@       | 39 | NA2MP/W   | 34 | NC3FAHL-2-O | 8  | NC3FD-V-O       | 11 | NC3MD-L-1-BAG | 12 | NC4MBH-B      | 9  |
| BSX-@        | 39 | NA2MPMF   | 34 | NC3FAHR-1   | 8  | NC3FEZ-AU       | 5  | NC3MD-V       | 11 | NC4MBV        | 9  |
| BSZ@         | 39 | NA2MPMF/W | 34 | NC3FAHR-1-O | 8  | NC3FEZ-B        | 5  | NC3MD-V-B     | 11 | NC4MBV-B      | 9  |
| DBA          | 39 | NA2MPMM   | 34 | NC3FAHR-2   | 8  | NC3FEZY-AU      | 5  | NC3MD-V-BAG   | 11 | NC4MD-L-1     | 12 |
| DH-NF        | 11 | NA2MPMM/W | 34 | NC3FAHR-2-O | 8  | NC3FEZY-B       | 5  | NC3MEZ-AU     | 5  | NC4MD-L-1-B   | 12 |
| DH-NF-BAG    | 11 | NA3FF     | 34 | NC3FAV      | 8  | NC3FP-1         | 12 | NC3MEZ-B      | 5  | NC4MD-L-1-BAG | 12 |
| DH-NF-BAG-M3 | 11 | NA3FF/W   | 34 | NC3FAV-1    | 8  | NC3FP-1-B       | 12 | NC3MEZY-AU    | 5  | NC4MDM3-H     | 13 |
| DH-NF-BAG-O  | 11 | NA3FJ     | 34 | NC3FAV-1-O  | 8  | NC3FP-1-BAG     | 12 | NC3MEZY-B     | 5  | NC4MDM3-H-BAG | 13 |
| DH-NF-M3     | 11 | NA3FJ/W   | 34 | NC3FAV-2    | 8  | NC3FP-1-BAG-O   | 12 | NC3MP         | 12 | NC4MP         | 12 |
| DH-NF-M3-O   | 11 | NA3FM     | 34 | NC3FAV-2-O  | 8  | NC3FPP          | 13 | NC3MP-B       | 12 | NC4MP-B       | 12 |
| DH-NF-O      | 11 | NA3FM/W   | 34 | NC3FAV-O    | 8  | NC3FRC          | 3  | NC3MP-BAG     | 12 | NC4MP-BAG     | 12 |
| DH-NM        | 11 | NA3FP     | 34 | NC3FAY      | 8  | NC3FRC-B        | 3  | NC3MPP        | 13 | NC4MRC        | 3  |
| DH-NM-BAG    | 11 | NA3FP/W   | 34 | NC3FBH-1    | 8  | NC3FRC-BAG      | 3  | NC3MRC        | 3  | NC4MRC-B      | 3  |
| DH-NM-BAG-M3 | 11 | NA3F5F    | 34 | NC3FBH-1-B  | 8  | NC3FX-1         | 2  | NC3MRC-B      | 3  | NC4MRC-BAG    | 3  |
| DH-NM-M3     | 11 | NA3F5F/W  | 34 | NC3FBH-1-O  | 8  | NC3FX-1-BAG     | 2  | NC3MRC-BAG    | 3  | NC4MX         | 2  |
| DHP          | 11 | NA3F5M    | 34 | NC3FBH-2    | 8  | NC3FX-1-D       | 2  | NC3MX-1       | 2  | NC4MX-B       | 2  |
| DSS-@        | 39 | NA3F5M/W  | 34 | NC3FBH-2-B  | 8  | NC3FX-14        | 2  | NC3MX-1-BAG   | 2  | NC4MX-BAG     | 2  |
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| NC5MX-BAG     | 2  | NC7FX         | 2  | NKTB03-BLK    | 29 | NL4FC-B       | 21    | NP3TB-R        | 17    | (0)         | Black   |
| NC5MX-HD      | 4  | NC7FX-B       | 2  | NKTB03-R      | 29 | NL4MD-H       | 21    | NP3TM-B        | 17    | (1)         | Brown   |
| NC5MX-HD-B    | 4  | NC7FX-BAG     | 2  | NKTB04-BLK    | 29 | NL4MD-H-2     | 21    | NP3TM-R        | 17    | (2)         | Red     |
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| NC6FD-L-1-B   | 12 | NC7FX-HD-B    | 4  | NKTB05-BLK    | 29 | NL4MD-V-1     | 21    | NP3TT-P-B      | 17    | (4)         | Yellow  |
| NC6FD-L-1-BAG | 12 | NC7MD-L-1     | 12 | NKTB05-R      | 29 | NL4MD-V-2     | 21    | NP3TT-P-B-AU   | 17    | (5)         | Green   |
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| NC6FP-1-B     | 12 | NC7MRC-BAG    | 3  | NKTT03-BLK    | 29 | NL4MP-B       | 21    | NPPA-TT-E56    | 30    | (9)         | White   |
| NC6FP-1-BAG   | 12 | NC7MX         | 2  | NKTT03-BLK-AU | 29 | NL4MPR        | 21    | NPPA-TT-S      | 30    |             |         |
| NC6FPS-1      | 12 | NC7MX-B       | 2  | NKTT03-GN     | 29 | NL4MPR-V      | 21    | NPP-C          | 33    |             |         |
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| NC6FRC-BAG    | 3  | NC7MX-HD-B    | 4  | NKTT03-Y      | 29 | NL8FC         | 21    | NPP-TB         | 32    |             |         |

@ denotes product available in ten resistor colors as follows.

| #   | Color  | Suffix |
|-----|--------|--------|
| (0) | Black  | - BLK  |
| (1) | Brown  | - BR   |
| (2) | Red    | - R    |
| (3) | Orange | - O    |
| (4) | Yellow | - Y    |
| (5) | Green  | - GN   |
| (6) | Blue   | - BL   |
| (7) | Violet | - V    |
| (8) | Grey   | - GR   |
| (9) | White  | - WT   |

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