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Where to obtain Technical Information

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

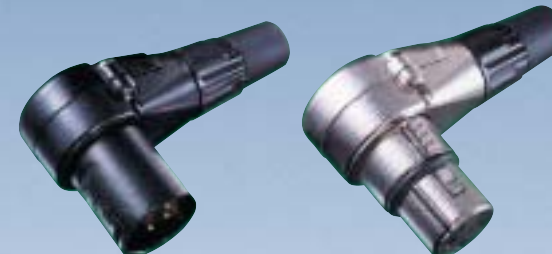
# of Contacts	Nickel Shell Silver Contacts	Black Chrome Shell Silver Contacts
3	NC3MX-14	NC3MX-14-B

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.

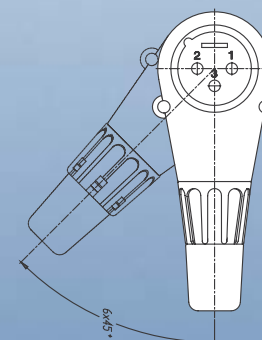
ORDERING INFORMATION – "RC" Series Male

# 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).

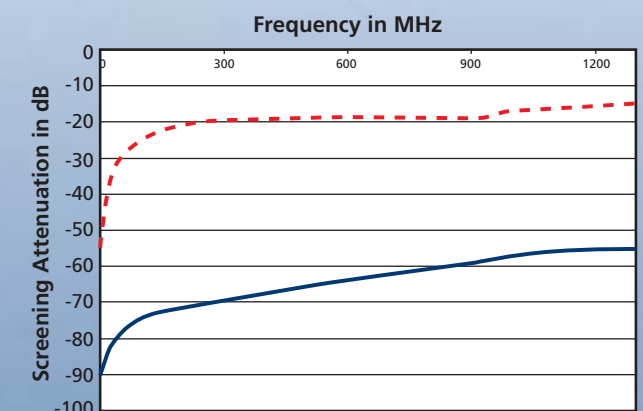
ORDERING INFORMATION – Digital XLR

# 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 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 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

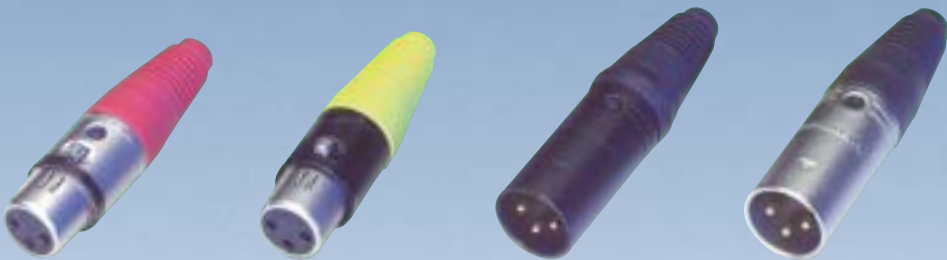
# of Contacts	Stainless Steel Shell Gold Contacts	
3	NC3MX-HD	NC3MX-HD-B*

* -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/ Gold Contacts	Black Chrome/ Gold Contacts
3	NC3MEZY-AU	NC3MEZY-B

ORDERING INFORMATION – EASYCON – IDC-Female

# of Contacts	Nickel Shell/ Gold Contacts	Black Chrome/ Gold Contacts
3	NC3FEZY-AU	NC3FEZY-B

ORDERING INFORMATION – EASYCON – Solder-Male

# of Contacts	Nickel Shell/ Gold Contacts	Black Chrome/ Gold Contacts
3	NC3MEZ-AU	NC3MEZ-B

ORDERING INFORMATION – EASYCON – Solder-Female

# of Contacts	Nickel Shell/ Gold Contacts	Black Chrome/ 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 N/A	N/A 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
Electrical			
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
Mechanical			
Applicable wire size: 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
Environmental			
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
Materials			
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

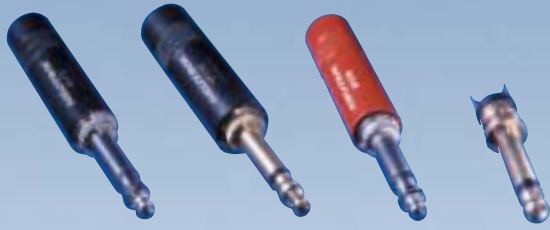
# of Contacts	Nickel Shell	Black Chrome Shell		Contacts
	Nickel Contacts	Nickel Contacts	Gold Contacts	
2	NP2C	NP2C-BAG	NP2C-B	TS
2	N/A	NP2C-BAG-D*	N/A	TS
2	NP2C-T10AA	NP2C-T10AA-BAG	N/A	TS**
2	NP2L	NP2L-BAG	N/A	TS
2	NP2RCS	N/A	N/A	TS

**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



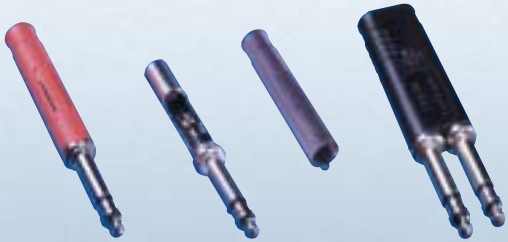
Military Gauge Series

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	Color	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 SERIES	NP3C SERIES	NP*RCS SERIES	MIL GAUGE SERIES	NP3TT 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 • 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 • 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 left channel pins 1+/1- 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 left speaker pins 1+/1- right speaker pins 2+/2-
POWER (“PA”) Standard	three NL4MP socket “A” socket: left channel pins 1+/1- “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 “+” NL4MP pins 1- and 2+ to speaker coil “-”
Bridged mono	“M” socket: left channel pins 1+/1- 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 “+” NL4MP pins 1- and 2+ to speaker coil “-”
Bi-Amp	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-	a four-conductor cable on both ends wired to pins 1+/1-, 2+/2- of NL4FC	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-

Schematics available online – 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 – 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

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



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 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:	
• 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

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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.

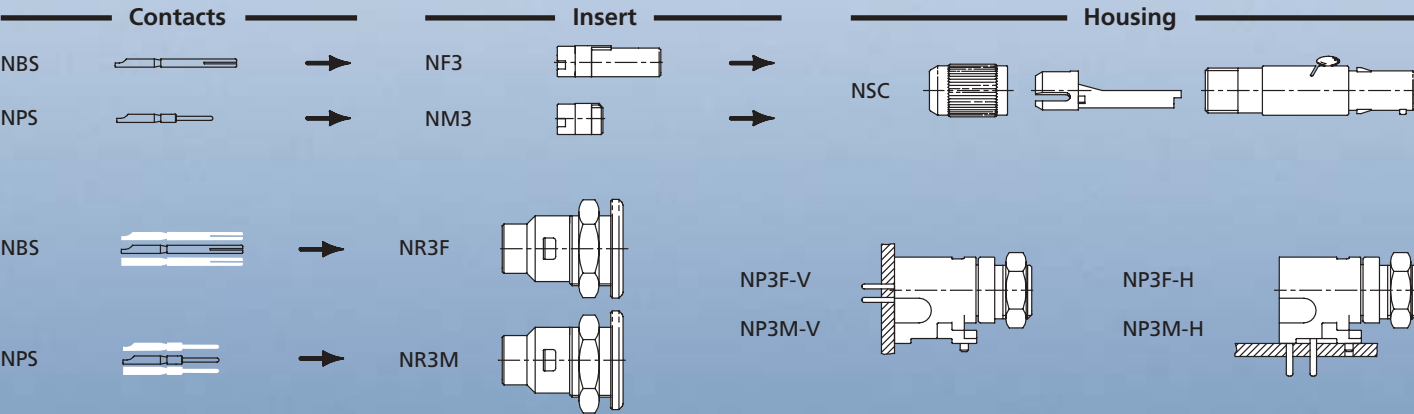
The machined metal nickel plated housings hold inserts which contain machined gold contacts. Pin #1 mates first, breaks last. Panel receptacles with blank inserts, mating cable ends with interchangeable inserts and fully loaded PCB receptacles are available.

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.

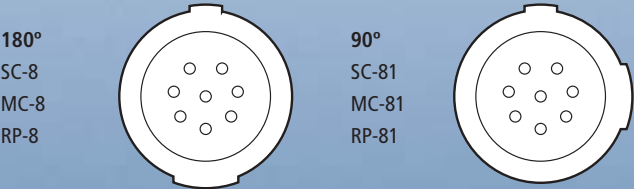
ORDERING INFORMATION – Neutricon®		
Cable Connectors		
Description	Female	Male
Cable housing, Nickel#	SC-8Ni	SC-8-Ni
Cable housing, Black Chrome#	SC-8	SC-8
Strain relief & Boot	SR-8	SR-8
Strain relief & Boot w/ crimp ferrule for coaxial grounding	SR-8A / 3-3.8mm SR-8B / 6-7mm	SR-8A / 3-3.8mm SR-8B / 6-7mm
Inserts	FI-8	MI-8
Contacts	• Solder BS1 • Crimp BC1 • Blank BB1	PS1 PC1 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.

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 • Crimp BC1 • PCB (vertical) BP1 • Blank BB1	PS1 PC1 PP1 N/A

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

Polarization
Shell: Two variations of metal polarizing guides (180° / 90°)



For additional Ordering Information please go to www.neutrik.com in the TECHNICAL SUPPORT section under ASSEMBLIES

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MiniCon®

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

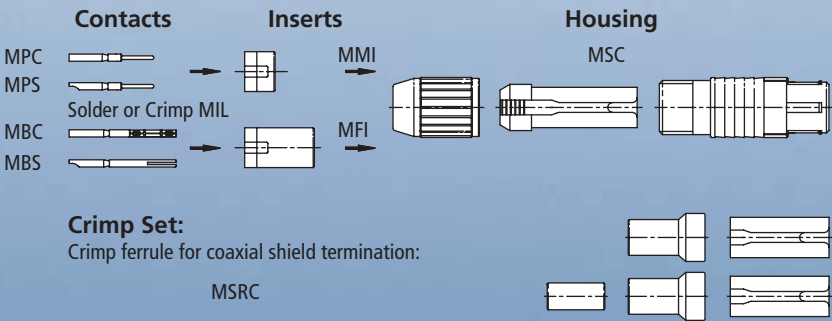
Offering a precisely machined, rugged, all metal design, MiniCon® features fully loaded male and female PCB horizontal or vertical receptacles, male and female receptacles for crimp or solder contacts and a cable housing with optional crimp ferrules for coaxial shield terminations. The cable connectors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

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			

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®			
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 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 SR8A: 3 – 3.8 mm SR8B: 6 – 7 mm	gray chuck: 2 – 5 mm white chuck: 5 – 7 mm 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®

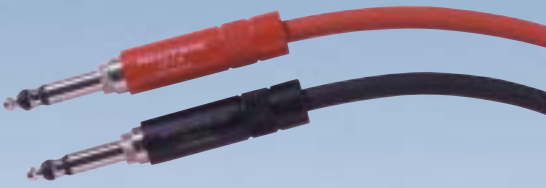
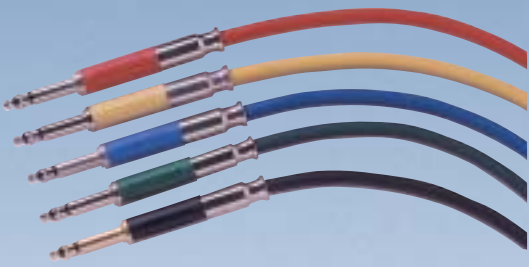
You will not find a higher quality RCA plug. The Neutrik® Profi® professional phono plugs are precisely machined to our highest standards.

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:	• blue chuck: 3.0 – 5.5 mm • black chuck: 5.5 – 7.3 mm
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 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 (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

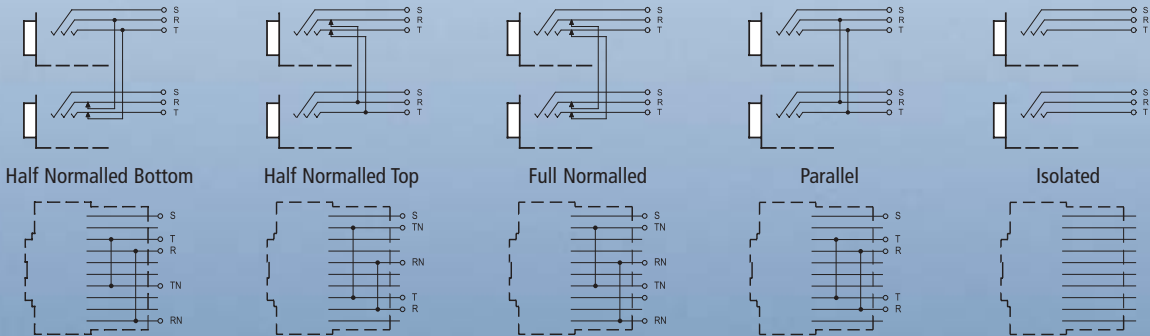
The standard version of our “Easy-Patch” is delivered with the bottom row half normalled for each jack pair. There are four other normalling configurations available for each jack pair:

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

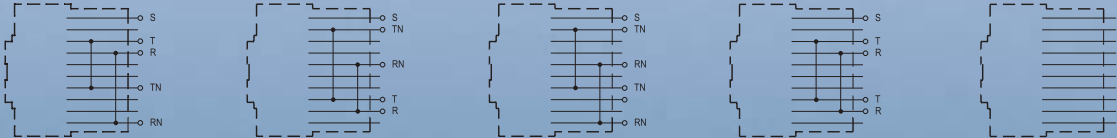
CAUTION: DO NOT use parallel configurations or other parallel paths in the half-normalled configuration when handling DIGITAL signals. Parallel paths may lead to mismatching. Please see the configuration chart included with each unit.

- 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:	AIMgSi0.5 F22	



Spring loaded push terminals (PH)

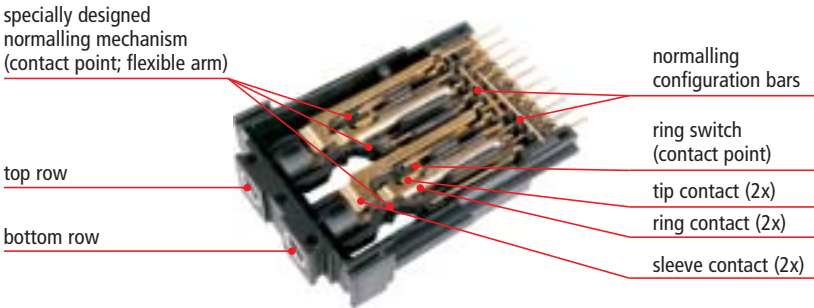


56+ pin Elco/Edac (E56)

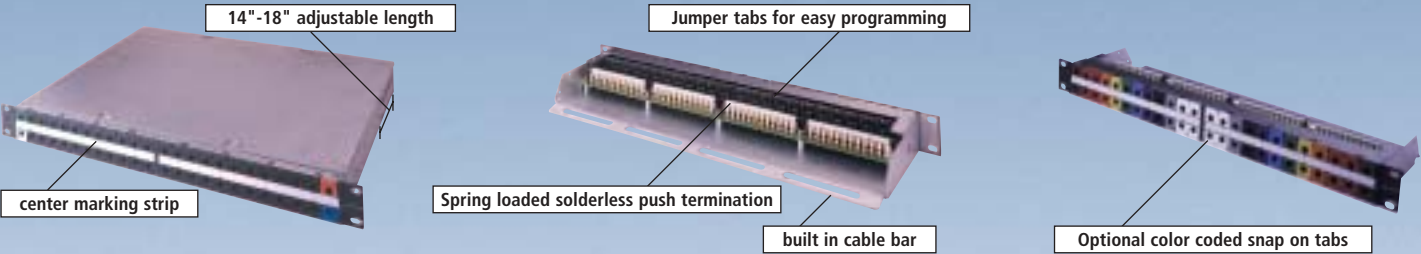


Solder lugs (S)

NJ3TTA Series Jack



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NPP-TB Series

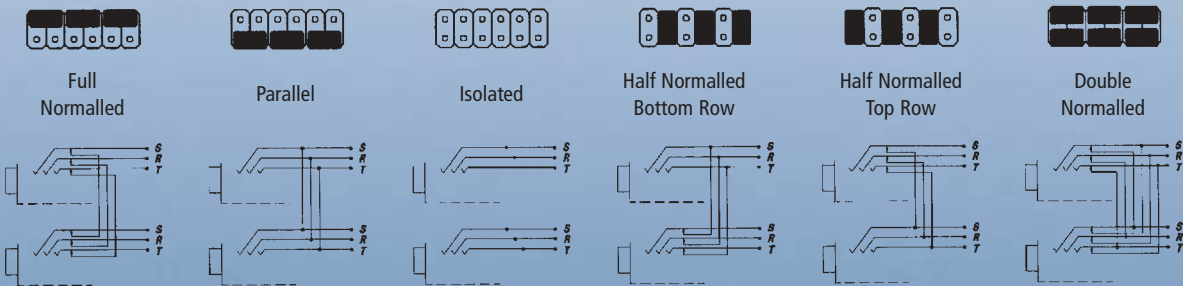
The "Easy Patch" is a durable compactly designed 19" rack mount (19" x 1U) series of patch panels. Each unit is made in a galvanized metal housing and includes a built in cable tray. The front panel has a removable center marking strip and individual snap on tabs for color coding.

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 mm²) and solid wire to AWG 18 (0.75 mm²) 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



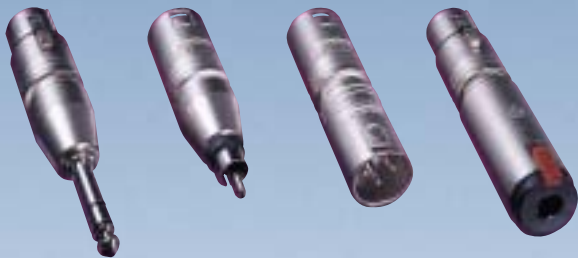
90 pin Elco/Edac



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-) plug
	NA2FPMF*	XLR 3 pin female	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. • thread adapter M17x1 outer – 3/8" outer thread • 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.

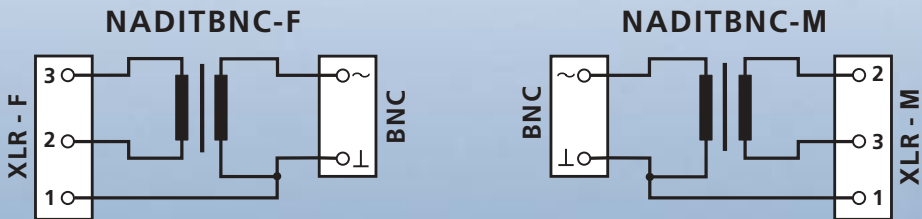
ORDERING INFORMATION – AES/EBU digital Audio Adapter

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 20Hz-20kHz	Max. input voltage (@60Hz)		Min. load 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 @ 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

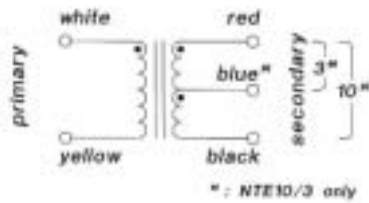
ORDERING INFORMATION – Transformers

Type	Part No.	Connection Type		Comments	
Application		Source/load Impedances in Ω	Turns Ratio (prim : sec)	Max. input voltage 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 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

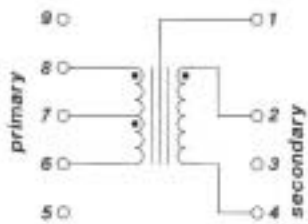
Modules		Adapters
Electrical		
Contact resistance:		
• XLR: <3 mΩ	X	X
• Jack: <6 mΩ	X	X
Insulation resistance: >2GΩ	X	X
Dielectric strength: 1.5 kV dc	X	X
Mechanical		
Max. wire size:		
XLR: 2.5 mm² / 14 AWG	X	X
Jack: 1.5 mm² / 16 AWG	X	X
Environmental		
Temperature range: -20°C to +65°C	X	X
Solderability: 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

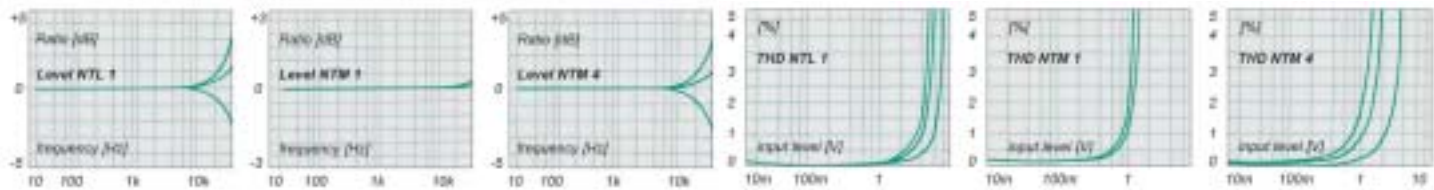
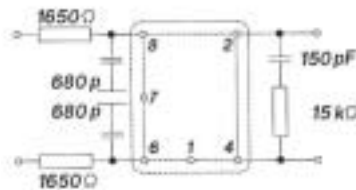
NTE1, 4, 10/3



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.

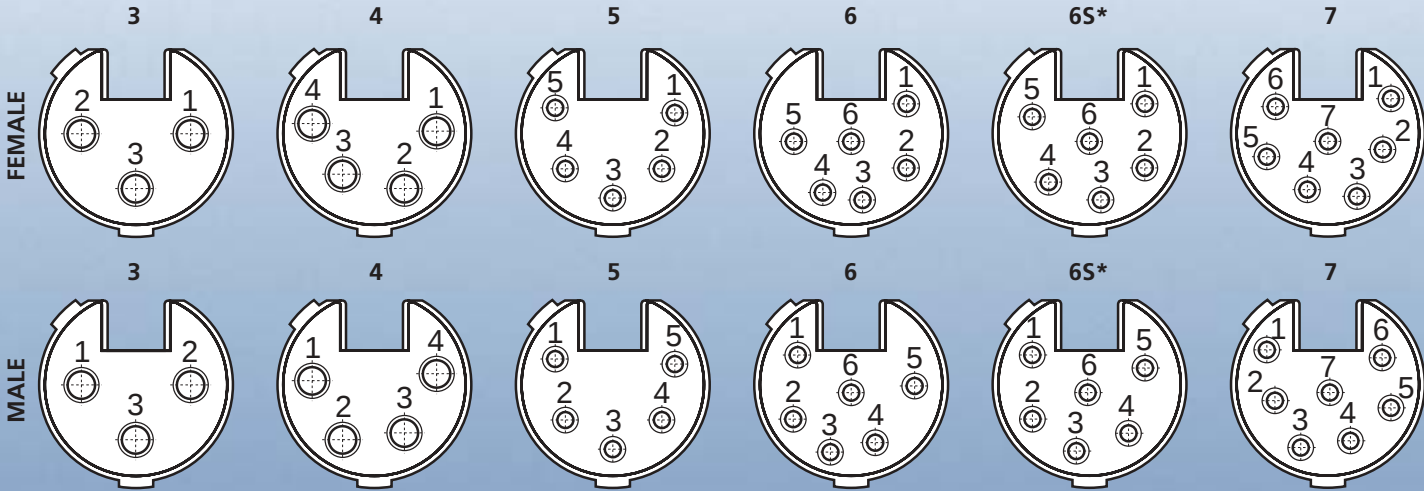
ORDERING INFORMATION – Color coded Accessories											
Part #'s	Description	-WT (White)	-GR (Gray)	-V (Violet)	-BL (Blue)	-GN (Green)	-Y (Yellow)	-O (Orange)	-R (Red)	-BR (Brown)	-BLK (Black)
ACRF-Color	Colored rings for "A/B" series female receptacles										
ACRM-Color	Colored rings for "A/B" 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 AC = "AC" C = Connector F = Fi (ProFi) J = Jack K = "Kabel" (Patch Cable) L = Loudspeaker M = Module P = Plug PP = Patch Panel T = Transformers	2 – 10	F = Female M = Male	A B CJ D K P RC TB TT X ZL	H = Right angle PCB mount L = Solder V = Vertical PCB mount	Revisions: "I" or "1" OR Grounding: "-1" or "-2" A/B Series only	No suffix = Ni/Silver -B = Black/Gold -BAG = Black/Silver	Latchless (retention spring instead of "PUSH" tab. 3 pin female receptacle only. "P" series not included)

Contact Arrangements Mating Side

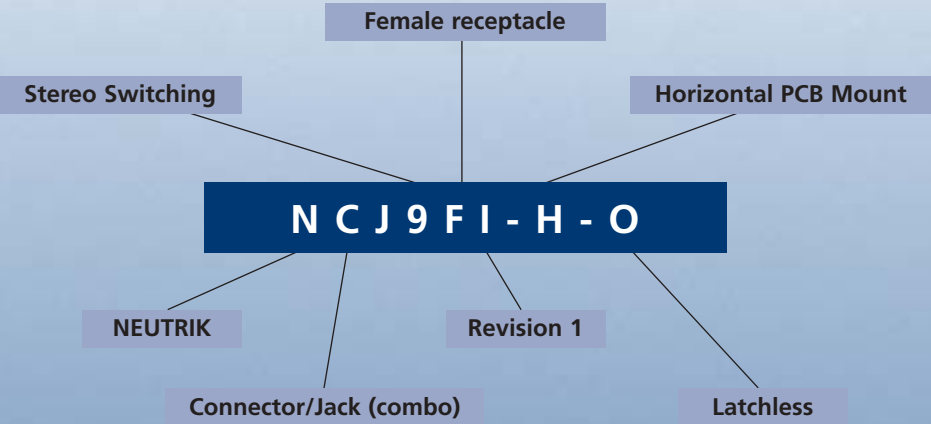
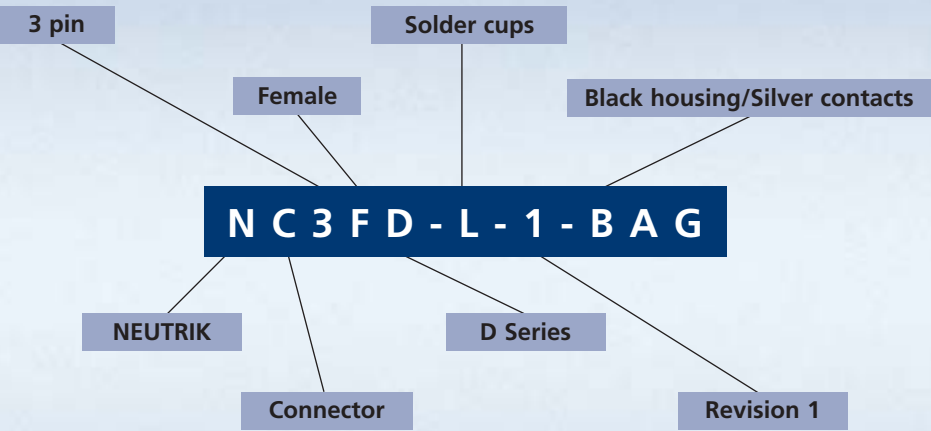


All standard inserts are black

*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
FI-8	25	NA3M5F	34	NC3FBH-2-O	8	NC3FX-14-B	2	NC3MX-1-D	2	NC4MX-HD	4
GF1	34	NA3M5F/W	34	NC3FBHL-1	8	NC3FX-14-B-D	2	NC3MX-14	2	NC4MX-HD-B	4
GN-18	34	NA3M5M	34	NC3FBHL-1-B	8	NC3FX14-D	2	NC3MX-14-B	2	NC5FAH	9
GNS-18	34	NA3M5M/W	34	NC3FBHL-1-O	8	NC3FX	2	NC3MX-1-BAG-D	2	NC5FAV	9
GN-36	34	NA3MJ	34	NC3FBHL-2	8	NC3FX-B	2	NC3MX-14-D	2	NC5FBH	9

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

Index by part number

NC5FBH-B	9	NC6FRC	3	NCJ5FI-H	19	NKTT04-BL	29	NL8MD-H	21	NPP-TB-HN	32
NC5FBV	9	NC6FRC	3	NCJ5FI-H-O	19	NKTT04-BLK	29	NL8MD-H-BAG	21	NPP-TB-14E	32
NC5FBV-B	9	NC6FRC-BAG	3	NCJ5FI-S	19	NKTT04-BLK-AU	29	NL8MD-V	21	NPP-TB-14PT	32
NC5FD-L-1	12	NC6FX	2	NCJ5FI-S-O	19	NKTT04-GN	29	NL8MD-V-BAG	21	NPS	24
NC5FD-L-1-B	12	NC6FX-B	2	NCJ5FI-V	19	NKTT04-R	29	NL8MM	21	NR3F	24
NC5FD-L-1-BAG	12	NC6FX-BAG	2	NCJ5FI-V-O	19	NKTT04-R-AU	29	NL8MPR	21	NR3M	24
NC5FDM3-H	13	NC6FXS	2	NCJ6FI-H	19	NKTT04-Y	29	NL8MPR-BAG	21	NSC	24
NC5FDM3-H-BAG	13	NC6FXS-B	2	NCJ6FI-H-O	19	NKTT05-BL	29	NM2P	35	NTE1	37
NC5FDM3-V-BAG	13	NC6FXS-BAG	2	NCJ6FI-S	19	NKTT05-BLK	29	NM-3	24	NTE4	37
NC5FP-1	12	NC6FX-HD	4	NCJ6FI-S-O	19	NKTT05-BLK-AU	29	NM3FXI	35	NTE103	37
NC5FP-1-B	12	NC6FX-HD-B	4	NCJ6FI-V	19	NKTT05-GN	29	NM3J	35	NTL1	37
NC5FP-1-BAG	12	NC6MD-L-1	12	NCJ6FI-V-O	19	NKTT05-R	29	NM3MXI	35	NTM1	37
NC5FPP	13	NC6MD-L-1-B	12	NCJ9FI-H	19	NKTT05-R-AU	29	NM3P	35	NTM4	37
NC5FRC	3	NC6MD-L-1-BAG	12	NCJ9FI-H-O	19	NKTT05-Y	29	NMC	24	PC1	25
NC5FRC-B	3	NC6MDS-L-1	12	NCJ9FI-S	19	NKTT1-BL	29	NP2C	17	PCR@	39
NC5FRC-BAG	3	NC6MDS-L-1-B	12	NCJ9FI-S-O	19	NKTT1-BLK	29	NP2C-B	17	PP1	25
NC5FX	2	NC6MP	12	NCJ9FI-V	19	NKTT1-BLK-AU	29	NP2C-BAG	17	PS1	25
NC5FX-B	2	NC6MP-B	12	NCJ9FI-V-O	19	NKTT1-GN	29	NP2C-BAG-D	17	RP-8	25
NC5FX-BAG	2	NC6MP-BAG	12	NCJ10FI-H	19	NKTT1-R	29	NP2CM	17	RP-81	25
NC5FX-HD	4	NC6MRC	3	NCJ10FI-H-O	19	NKTT1-R-AU	29	NP2CM-B	17	RP-8Ni	25
NC5FX-HD-B	4	NC6MRC-B	3	NCJ10FI-S	19	NKTT1-Y	29	NP2CM-R	17	SC-8	25
NC5MAH	9	NC6MRC-BAG	3	NCJ10FI-S-O	19	NKTT2-BL	29	NP2CM-I	17	SC-8Ni	25
NC5MAV	9	NC6MRCS	3	NCJ10FI-V	19	NKTT2-BLK	29	NP2C-T10AA	17,37	SC-8W	25
NC5MBH	9	NC6MRCS-B	3	NCJ10FI-V-O	19	NKTT2-BLK-AU	29	NP2C-T10AA-BAG	17,37	SC-81	25
NC5MBH-B	9	NC6MRCS-BAG	3	NF2CB/2	28	NKTT2-GN	29	NP2L	17	SCDF	39
NC5MBV	9	NC6MX	2	NF-3	24	NKTT2-R	29	NP2L-BAG	17	SCDM	39
NC5MBV-B	9	NC6MX-B	2	NJ2FD-V	15	NKTT2-R-AU	29	NP2RCS	17	SCREW-2.5M	8
NC5MD-L-1	12	NC6MX-BAG	2	NJ3FC6	15	NKTT2-Y	29	NP3C	17	SCREW-2.9M	9,19,21
NC5MD-L-1-B	12	NC6MXS	2	NJ3FC6-BAG	15	NKTT12-BL	29	NP3C-B	17	SD-NLP	20
NC5MD-L-1-BAG	12	NC6MXS-B	2	NJ3FD-V	15	NKTT12-BLK	29	NP3C-BAG	17	SD-1	11
NC5MDM3-H	13	NC6MXS-BAG	2	NJ3FP6C	15	NKTT12-BLK-AU	29	NP3C-D	17	SM2/2	35
NC5MDM3-H-BAG	13	NC6MX-HD	4	NJ3FP6C-BAG	15	NKTT12-GN	29	NP3CM	17	SR-8	25
NC5MDM3-V-BAG	13	NC6MX-HD-B	4	NJ3FP6C-P	15	NKTT12-R	29	NP3CM-B	17	SR-8W	25
NC5MP	12	NC7FD-L-1	12	NJ3TTA-4-HNB	31	NKTT12-R-AU	29	NP3CM-R	17	VMX	35
NC5MP-B	12	NC7FD-L-1-B	12	NJ3TTA-4-HNT	31	NKTT12-Y	29	NP3CM-I	17	XCR-@	39
NC5MP-BAG	12	NC7FD-L-1-BAG	12	NJ3TTA-4-FN	31	NL-FASTON	20-21	NP3F-H	24	@ denotes product available in ten resistor colors as follows.	
NC5MRC	3	NC7FP-1	12	NJ3TTA-4-P	31	NL2FC	21	NP3F-V	24		
NC5MRC-B	3	NC7FP-1-B	12	NJ3TTA-4-I	31	NL2MD-H	21	NP3M-H	24		
NC5MRC-BAG	3	NC7FRC	3	NJ5FD-V	15	NL2MD-V	21	NP3M-V	24		
NC5MX	2	NC7FRC-B	3	NJ6FD-V	15	NL2MP	21	NP3RCS	17		
NC5MX-B	2	NC7FRC-BAG	3	NJ6TB-V	15	NL4FC	21	NP3TB-B	17		#
NC5MX-BAG	2	NC7FX	2	NKTB03-BLK	29	NL4FC-B	21	NP3TB-R	17		(0)
NC5MX-HD	4	NC7FX-B	2	NKTB03-R	29	NL4MD-H	21	NP3TM-B	17		Black
NC5MX-HD-B	4	NC7FX-BAG	2	NKTB04-BLK	29	NL4MD-H-2	21	NP3TM-R	17		(1)
NC6FD-L-1	12	NC7FX-HD	4	NKTB04-R	29	NL4MD-V	21	NP3TT-2	17		Brown
NC6FD-L-1-B	12	NC7FX-HD-B	4	NKTB05-BLK	29	NL4MD-V-1	21	NP3TT-P-B	17	(2)	
NC6FD-L-1-BAG	12	NC7MD-L-1	12	NKTB05-R	29	NL4MD-V-2	21	NP3TT-P-B-AU	17	Red	
NC6FDS-L-1	12	NC7MD-L-1-B	12	NKTB1-BLK	29	NL4MMX	21	NP3TT-P-R	17	(3)	
NC6FDS-L-1-B	12	NC7MRC	3	NKTB1-R	29	NL4MP	21	NP3TT-R-AU	17	Orange	
NC6FP-1	12	NC7MRC-B	3	NKTT03-BL	29	NL4MP-2	21	NPPA-TT-PT-PH	30	(4)	
NC6FP-1-B	12	NC7MRC-BAG	3	NKTT03-BLK	29	NL4MP-B	21	NPPA-TT-E56	30	Yellow	
NC6FP-1-BAG	12	NC7MX	2	NKTT03-BLK-AU	29	NL4MPR	21	NPPA-TT-S	30	(5)	
NC6FPS-1	12	NC7MX-B	2	NKTT03-GN	29	NL4MPR-V	21	NPP-C	33	Green	
NC6FRC	3	NC7MX-BAG	2	NKTT03-R	29	NL4MP-ST	21	NPP-LB	33	(6)	
NC6FRC-B	3	NC7MX-HD	4	NKTT03-R-AU	29	NL4MP-UC	21	NPP-S	33	Blue	
NC6FRC-BAG	3	NC7MX-HD-B	4	NKTT03-Y	29	NL8FC	21	NPP-TB	32	(7)	
										Violet	
										(8)	
										Grey	
										(9)	
										White	
										- BLK	
										- BR	
										- R	
										- O	
										- Y	
										- GN	
										- BL	
										- V	
										- GR	
										- WT	

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