TRUST THE ORIGINAL

speakON® Connectors
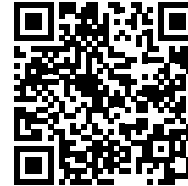
NEUTRIK®

C o n t e n t   P a g e

General information:

## s p e a k O N ®   C o n n e c t o r s

Introduction

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

The design is optimized for loudspeaker applications with an outstanding cost-performance ratio. As market leader for speaker connections we are proud to offer an all-encompassing product line for the specific needs of today's market. Recent designs such as the STXX series and the speakON Combo offer solutions for nearly every speaker application.

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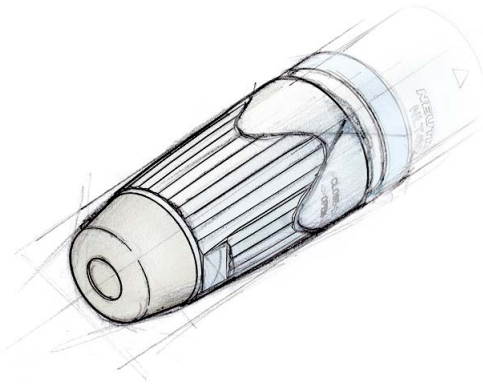
One of Neutrik's goals is to create products that are easily distinguished from other manufacturers. We have successfully achieved this in our engineering efforts as well as the patent and trademark protection granted for our unique products. To further establish a clear difference between Neutrik and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

Features & Benefits

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

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

Beyond that, the latest designs as the SPXX and STXX series offer:
- Up to 50 A current rating
- Only 3 parts with 1 piece strain relief design for even easier assembly
- Convertable right-angle version
- Weatherproof and extremely robust

Quick lock

Chuck type strain relief

Right angle conversion

s p e a k O N ® S P X   S e r i e s   2   &   4   P o l e   C a b l e   C o n n e c t o r

NL2FX

NL4FX

NL4FRX

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

NL4FX

71.5-76.5 [2.815-3.011"]

Ø 26.0 [1.024"]

NL4FRX

62.0 [2.44"]

74.0 - 79.0 [2.91 - 3.10"]

setting standards
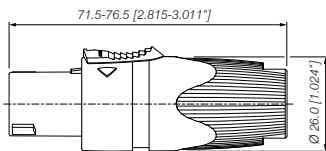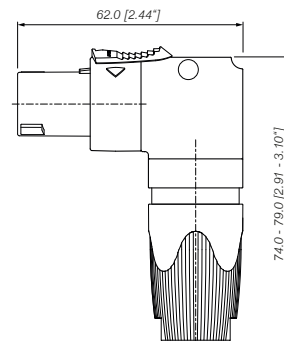
Design Criteria

This second generation of speakON connectors features higher current rating for the operation of high power speakers and amplifiers carrying more than 1`000 Watts. Only 3 parts make it fast and easy to assemble with a more reliable performance. Our unique design makes it possible to change easily and quickly from a straight connector to the right-angle version, even without disconnecting the cable.
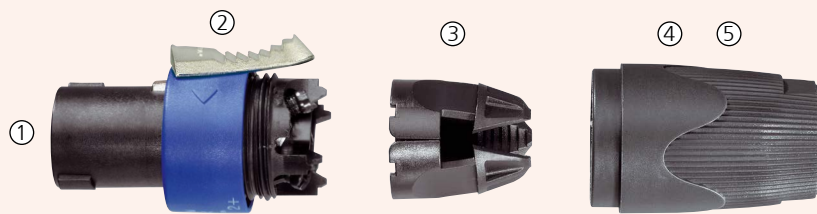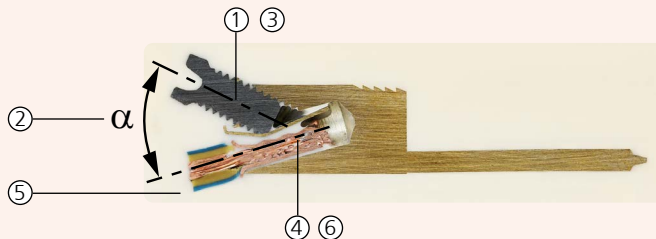
① Easy and extremely precise locking system "Quick Lock"
② Improved grip on latch
③ 1 piece strain relief, chuck for 7 to 14.5 mm cable O.D., with accessory NLRR 5-8 mm
④ Color coding possible
⑤ Integrated design guaranties "Made by NEUTRIK®"

Improved SPX-Series screw contacts! (Wire position after assembly)

① Progressive clamping as wire is pushed forward
② Acts as screw locking device due to side forces
③ Large combi drive - M4 screw
④ Wire size 1.5 - 4 mm² (AWG 12) for 6 mm² (AWG 10) remove screw & solder
⑤ Pull out force > 200 N @ 80 cNm
⑥ Gas tight connection

Assembly

Prepare cable as shown.

25 mm [1.0"]
12 mm [0.5"]
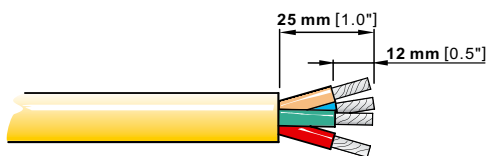
HINT:

For easy wiring especially of thick cables, first screw on the inner contacts 1+ and 2+ and afterwards the outer contacts 1- and 2- !

Use screwdriver Pozidriv #1 only.

Glass reinforced housing

Quick lock

speakON® FC Cable Connector Series

NL4FC

NL8FC

- Up to 30 A rms current rating
- Glass reinforced materials for housing and inserts
- Unique Neutrik chuck type strain relief
- Precise keyway for secure mating
- Accurate twist lock latching system
- 4 pole in new design with more ergonomic latch

Keying:

NL2MP

NL4MP

NL2FX

NL4FC

NL4FC

Ø 26.0 [1.024"]

76.5-80.0 [3.012-3.150"]

NL8FC

Ø36.2 [1.425"]

81.0~85.0 [3.35"]

setting standards
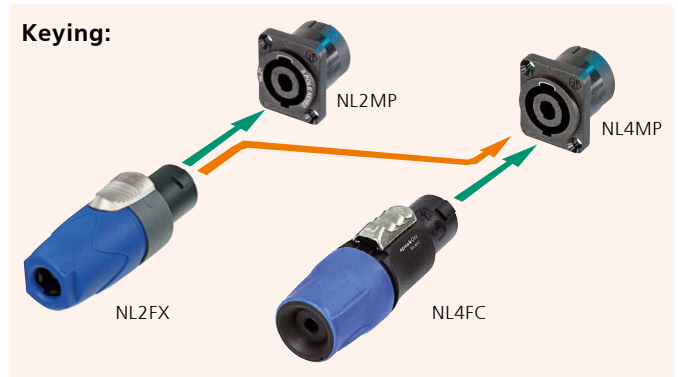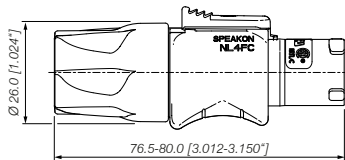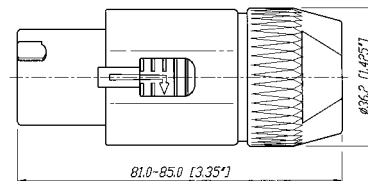
1/4" Jack adapter   Extention coupler   Secure Lock

s p e a k O N ® A d a p t e r

NA4LJX   NL4MMX   NL8MMXX

NL4MMX:

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

USE THIS SIDE FOR
SECURE CONNECTION
SLIDE RING
UNLOCK   LOCK

Secure Lock!

NL4MMX + NL4FX:
(locked on the cable)

Changes gender to male when permanently locked on the cable.

NA4LJX

Ø 6.35 [1/4"]
Ø 26.0 [1.024"]
78.0 [3.07"]

NL4MM

28.7 [1.13"]
25.5 [1.0"]

NEUTRIK
speakON
NL4MMX
LIECHTENSTEIN
50.0 [1.97"]

NL8MM

NL8M
NEUTRIK
LIECHTENSTEIN
38.0 [1.496"]
38.0 [1.496"]
79.6 [3.134"]
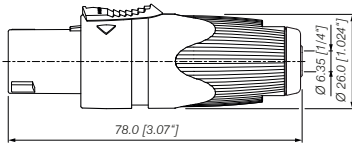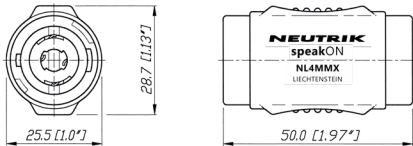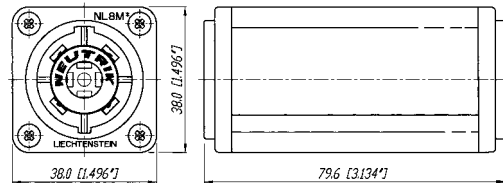
Reinforced locking area

Nickel housing

3/16" flat tabs
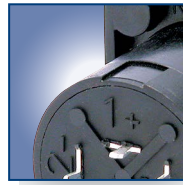
Vertical PCB mount

speakON® Chassis Connector

NL2MDXX-V

NL4MDXX-H-3

NL4MPXX

NL4MPRXX

NL8MPRXX

- Standard version up to 25 A rms, ultra high current version up to 50 A audio current
- Glass reinforced materials
- Precise keyway for secure mating
- Accurate twist lock latching system
- Metal front plate (8 pole) or metal insert in locking area (2 & 4 pole)
- Various mounting and wiring possibilities
- "Air tight design", optimized for speaker applications
- D or G panel cutouts to be easily mounted on audio industry standard panels
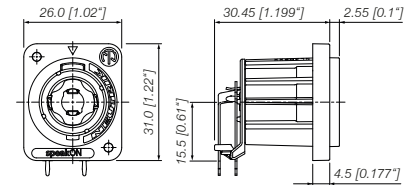
NL4MPXX

NL4MDXX-V-2

NL4MDXX-H-3
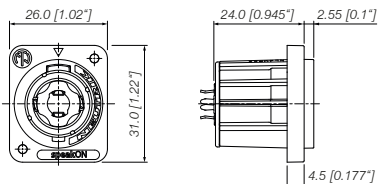
NL4MPRXX

NL8MPRXX
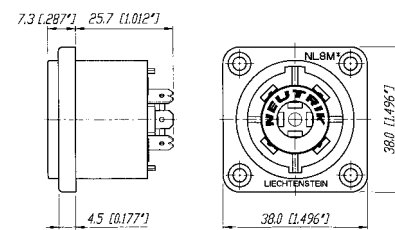
Locking key

PCB solder pins

speakON® Combo

NLJ2MDXX-V

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

Combines a speakON® and 1/4" Phone Jack – one for two

NLJ2MDXX-V
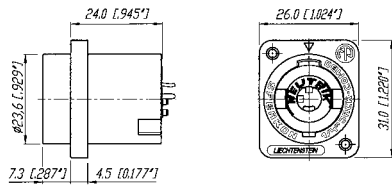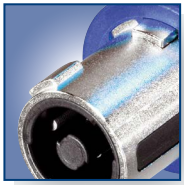
Reinforced locking
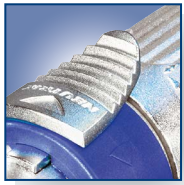
Latch lock

XL-solder contacts

Protected latch

s p e a k O N ® S T X X S e r i e s C a b l e C o n n e c t o r s

NLT4FXX-BAG

NLT4MXX

NLT8FX

NLT8MX-BAG

- Up to 30 A current rating
- Robust and durable all metal housing
- Sealing ring provides weatherproof IP 54 rating in mated condition on 4 pole version
- Reinforced metal quick lock system for ease and precise locking
- Extra large solder contacts for up to 6 mm² (AWG 10) wires
- Compatible with all available speakON products

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

NLT4MXX

ø26.0 [1.024"]   82.5 [3.246"]

NLT8FXX

117.0 - 121.0 [4.60 - 4.76"]   Ø 35.0 [1.378"]
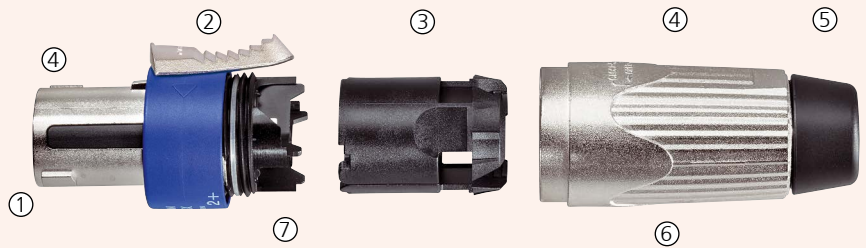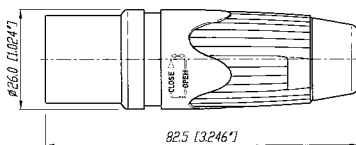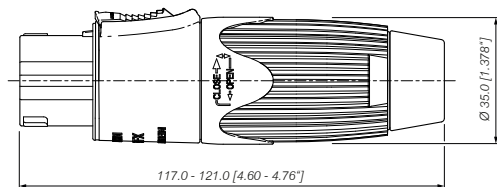
Robust metal
housing

XL-solder contacts
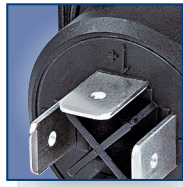
1/4" flat tabs

speakON® STXX Series Chassis Connectors

NLT4FPXX-BAG

NLT4MPXX

NLT4MPXX-BAG

NLT8MPXX-BAG

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

NLT4MPXX

8.0 [0.315"]   33.7 [1.327"]

30.0 [1.496"]

NLT4MP

LIECHTENSTEIN

4.5 [0.177"]

38.0 [1.496"]

NLT4FPXX

11.1 [0.436"]   40.7 [1.602"]

38.0 [1.496"]

PUSH   NL4FP

4.5 [0.177"]

38.0 [1.496"]

NLT8MPXX

7.3 [.287"]   29.2 [1.150"]

NL8M*

38.0 [1.496"]

LIECHTENSTEIN

4.5 [0.177"]

38.0 [1.496"]
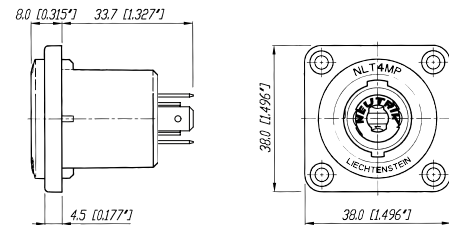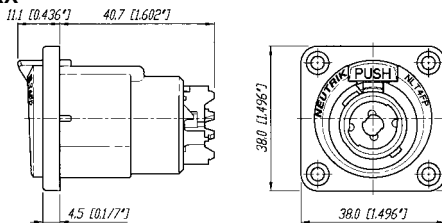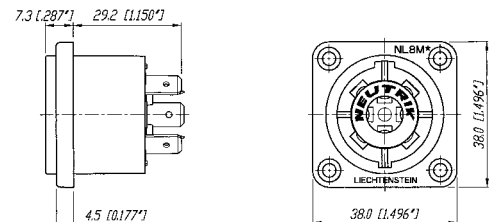
Specification			SPX Series Cable Con.	STXX Series Cable Con.	speakON FC Cable Con	speakON Chassis + Combo	Adapter	STX Series Chassis
Electrical								
Number of contacts			2 + 4	4 + 8	4 + 8	2, 4, 8	2, 4, 8	4 + 8
Rated current per contact	40 A rms continuous		●	●	30 A	30 A**	15 A	●
CSA approved rating	25 A (4 pole) rms continuous		●	●	-	10 A	-	-
	50 A audiosignal, duty cycle 50%		●	●	40 A	40 A	30 A	●
Combo	15 A rms continuous		-	-	-	●	-	-
Rated voltage	250 V ac		●	●	●	●	●	●
Contact resistance after lifetime	< 2 mΩ		●	●	≤ 3	≤ 3	≤ 3	●
Insulation resistance	> 1 GΩ		●	>100MΩ	●	●	●	>100MΩ
Dielectric strength	4 kVac peak		●	●	●	●	●	●
1/4" Jack	1.5 kV peak		-	-	-	-	●	-
Mechanical								
Locking System	Quick lock (latch)		●	●	●	●	●	●
Life time (mating cycles)	> 5'000		●	●	●	●	●	●
Cable O.D. range (mm)	2 pole		6 - 10	-	-	-	-	-
	4 pole		7 - 14.5	9 - 16	6 - 15	-	-	-
	8 pole		-	8 - 20	8 - 20	-	-	-
Wiring	screw type terminals		4 mm² (AWG 12)	-	4 mm² (AWG 12)	● (ST)	-	-
	soldering		6 mm² (AWG 10)	6 mm² (AWG 10)	4 mm² (AWG 12)	●	-	●
	flat tabs for 3/16"FASTON® (4.8 x 0.5 mm)		-	-	-	●	-	-
	flat tabs for 1/4" FASTON® (6.3 x 0.8 mm)		-	-	-	● (UC)	-	●
	PCB-version		-	-	-	●	-	●
Insertion / withdrawal force	Combo Jack: ≤ 20 N / > 10 N		-	-	-	●	-	-
Cable retention force	≥ 220 N*		●	●	●	-	-	-
Material								
Housing	Polyamide UL94 V-0		-	-	●	●	●	-
	PBTP 20% GR		●	-	-	-	-	-
	Zinc diecast (ZnAl4Cu1)		(8 pole)	●	-	-	-	●
Insert	Polyamide PA 6 30% GR		-	●	-	-	●	●
	PBTP 20% GR		●	-	●	-	-	-
Contacts	Brass (CuZn39Pb3)		●	●	●	-	-	-
	Bronze (CuSn6)		-	-	-	●	●	-
	Spring copper		-	●	-	● (UC)	-	●
Contact plating	4 µm Ag		●	●	●	●	●	●
Locking Element	Zinc diecast (ZnAl4Cu1)		●	●	●	-	-	● (FP)
Chuck	Polyacetal (POM)		●	●	●	-	-	-
Bushing	Polyamide (PA 6 15% GR)		●	●	●	-	-	-
Environment								
Temperature range	-30 °C to +80 °C		●	●	●	●	●	●
Protection class	IP 54 (mated condition)		-	●	-	-	-	●
	IP 50 (8 pole, mated cond.)		-	●	-	-	-	●
Flammability	UL94HB (*: UL94 V-0)		●	●	●*	●	●	●
Finger- Safety	IP2X/IEC 61984		●	●	●	●	●	●
Approvals	UL-Recognized, CSA listed		●	4 pole	●	●	●	4 pole
Solderability	complies with IEC 68-2-20		●	●	●	●	●	●

*:   subject to cable O.D. and material
**: NL4MD-V-S - Rated current per contact: 20A

Ordering Information Cable Connectors

SPX Series

NL2FX	2 pole	Cable connector with chuck and blue bushing, intermates with 4 pole chassis connector and makes contact with +1/-1
NL4FX	4 pole	Cable connector with chuck and black bushing
NL4FX-2	4 pole	Cable connector with chuck and red bushing
NL4FX-4	4 pole	Cable connector with chuck and yellow bushing
NL4FX-5	4 pole	Cable connector with chuck and green bushing
NL4FX-9	4 pole	Cable connector with chuck and white bushing
NL4FRX	4 pole	Right-angle cable connector with chuck and black bushing

FC Series

NL4FC	4 pole	Cable connector with latch lock
NL8FC	8 pole	Cable connector with latch lock

Adapters

NA4LJX	4/2 pole	Adapter from speakON cable connector to 2 pole 1/4" Jack, wiring: +1 to TIP and -1 to SLEEVE
NL4MMX	4 pole	Lockable coupler to extend two 4 pole cables
NL8MM-BAG	8 pole	Coupler to extend two 8-pole cables, black-chrome metal housing, chuck and bushing

STX Series

NLT4FXX	4 pole	Female cable connector, nickel metal housing, chuck and bushing
NLT4FXX-BAG	4 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT4MXX	4 pole	Male cable connector, nickel metal housing, chuck and bushing
NLT4MXX-BAG	4 pole	Male cable connector, black-chrome metal housing, chuck and bushing
NLT8FX	8 pole	Female cable connector, nickel metal housing, chuck and bushing
NLT8FX-BAG	8 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT8MX-BAG	8 pole	Male cable connector, black-chrome metal housing, chuck and bushing

Accessories

LCR-*   LRX   NLRR   BSL-*   HTFAC

SPX Series

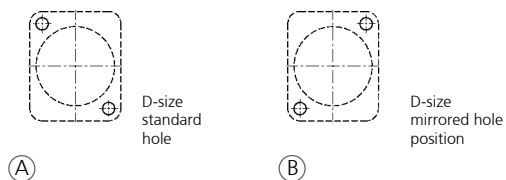| LCR-*	Colored coding rings for the right-angle version of the SPX Series. Available in blue (Standard), white, red, green and yellow.
LRX	Right-angle speakON conversion kit for changing the straight connector NL4FX into a right-angle version without removing the cable from the insert.
NLRR	Strain relief reduction ring for NL4FX for thin loudspeaker cables with an O.D. of 5 to 8 mm
HTFAC	Hand tool for tightening the bushing of the speakON NL4FC and the powerCON 20A cable connectors.

FC Series

BSL-*	Colored 2 component bushing for NL4FC

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

Ordering Information Chassis Connectors

Flange layout:

Hole layout:

D-size standard hole

(A)

D-size mirrored hole position

(B)

G-size flange with four holes

(C)

Countersunk

(D)

Self tapping screw holes (A-screw)

(E)
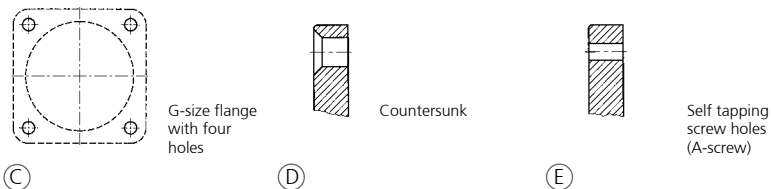
	Pole	Flange size	Flange layout	Fastening method	Color	Wiring	Remarks
Traditionally							
NL2MPXX	2	D-size	A	D	black	3/16" flat tabs*	Does not intermate with 4-pole cable connector
NL2MDXX-H-3	2	D-size	A	E	black	horizontal PCB	Does not intermate with 4-pole cable connector
NL2MDXX-V	2	D-size	A	D	black	vertical PCB	Does not intermate with 4-pole cable connector
NL2MDXX-V-3	2	D-size	A	E	black	vertical PCB	Does not intermate with 4-pole cable connector
NL4MPXX	4	D-size	A	D	black	3/16" flat tabs*	
NL4MPXX-3	4	D-size	A	E	black	3/16" flat tabs*	
NL4MDXX-H-2	4	D-size	B	E	black	horizontal PCB	
NL4MDXX-H-3	4	D-size	A	E	black	horizontal PCB	
NL4MDXX-V	4	D-size	A	D	black	vertical PCB	
NL4MDXX-V-3	4	D-size	A	E	black	vertical PCB	
NL4MDXX-V-2	4	D-size	B	E	black	vertical PCB	
NL4MPXX-ST	4	D-size	A	D	black	screw terminal	
NL4MPXX-UC	4	D-size	A	D	black	1/4" flat tabs*	Ultra high current, up to 40 A rms
NL4MPRXX	4	round G-size flange	C	D	black	3/16" flat tabs*	
NL8MDXX-V	8	square G-size flange	C	D	Ni	vertical PCB	
NL8MDXX-V-BAG	8	square G-size flange	C	D	black chrome	vertical PCB	
NL8MDXX-V-3	8	square G-size flange	C	E	Ni	vertical PCB	
NL8MPRXX	8	square G-size flange	C	D	Ni	3/16" flat tabs*	
NL8MPRXX-BAG	8	square G-size flange	C	D	black chrome	3/16" flat tabs*	
STX Series							
NLT4MPXX	4	square G-size flange	C	D	nickel	1/4" flat tabs*	
NLT4MPXX-BAG	4	square G-size flange	C	D	black chrome	1/4" flat tabs*	
NLT4MDXX-V-3	4	square G-size flange	C	E	nickel	vertical PCB	
NLT4MDXX-V	4	square G-size flange	C	D	nickel	vertical PCB	
NLT4FPXX	4	square G-size flange	C	D	nickel	solder contacts	
NLT4FPXX-BAG	4	square G-size flange	C	D	black chrome	solder contacts	
NLT4FD-V-BAG	4	square G-size flange	C	D	black chrome	vertical PCB	
NLT8MPXX	8	square G-size flange	C	D	nickel	1/4" flat tabs*	
NLT8MPXX-BAG	8	square G-size flange	C	D	black chrome	1/4" flat tabs*	
NLT8FPXX-BAG	8	square G-size flange	C	D	black chrome	solder contacts	

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

Ordering Information Chassis Connectors

	Pole	Flange size	Flange layout	Fastening method	Color	Wiring	Remarks
Combo Series							
NLJ2MDXX-V	2	D-size	A	E	green	vertical PCB	
NLJ2MD-V-1	2	D-size	A	E	grey	vertical PCB	
NLJ2MDXX-H	2	D-size	A	E	green	horizontal PCB	

Accessories

A-Screw-1-8   E-Screw1-12Ni   E-Screw1-12B   NLFASTON   MFD   NDL   SCL

SCDR   SCDX   SCCD-W   SCDP-*

SCNLT   Example: SCNLT + NLT4MP*   NZP1RU-12

A-Screw-1-8	Black self tapping PLASTITE®* screw 2.9 x 1.05 tri-rondular configuration, 8 mm long, panhead, for rear panel mount (A, AA and speakON Combo)
E-Screw1-12NI	Nickel self-tapping PLASTITE® countersunk screw 2.9 x 12 for rear panel mount, only suitable for panels with countersunk thru holes
E-Screw1-12B	Black self-tapping PLASTITE® countersunk screw 2.9 x 12 for rear panel mount, only suitable for panels with countersunk thru holes
NLFASTON	FASTON® receptacle for tabs with "positiv lock" for use with NL4MP, NL4MPR, NL8MPR, Pack of 100 pcs.
MFD	M3 mounting frame for D-size chassis
NDL	dummyPLUG for 2 & 4 Pole chassis connector
NZP1RU-8	Panel 1RU housing with 8 D-shape cutouts
NZP1RU-12	Panel 1RU housing with 12 D-shape cutouts
SCL	Plastic sealing cover to protect the connectors against dust and moisture
SCDR	Rear end protection cover for D-size chassis connectors
SCDP-*	D-Size sealing gaskets, color coding
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover to seals for D-size chassis Connectors, IP 65 rated
SCNLT	Gasket for NLT4MP
	(To make a cabinet with an Amphenol EP cutout airtight, use the rubber sealing which covers the entire hole.)

(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)   *PLASTITE® is a registered trademark of SFS Unimarket

Wiring Suggestion

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

"+" = 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 NL4FX on each end	one NL4MP per speaker left speaker pins 1+/1- right speaker pins 2+/2-
POWER ("PA") Standard	three NL4MP sockets "A" socket: left channel pins 1+/1- "B" socket: right channel pins 1+/1-	a two-conductor cable for each channel with NL4FX on both ends	NL4MP pins 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 pin 1+/2+ of NL4FX	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 NL4FX	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-
4 Way System	one NL8MPR socket low frequency pins 1+/1- low mid frequency pins 2+/2- high mid frequency pins 3+/3- high frequency pins 4+/4-	an eight-conductor cable wired on both ends to pins 1+/1-, 2+/2-, 3+/3-, 4+/4- of NL8FC	one NL8MPR socket low frequency pins 1+/1- low mid frequency pins 2+/2- high mid frequency pins 3+/3- high frequency pins 4+/4-

AMPLIFIER   CABLE   SPEAKER

AMPLIFIER   CABLE   SPEAKER

Power "PA" — 2 channel wiring

two cable

Power "PA" — Mono briged wiring

one cable

Stereo "HiFi"

Y- cable

Bi-Amp

one cable
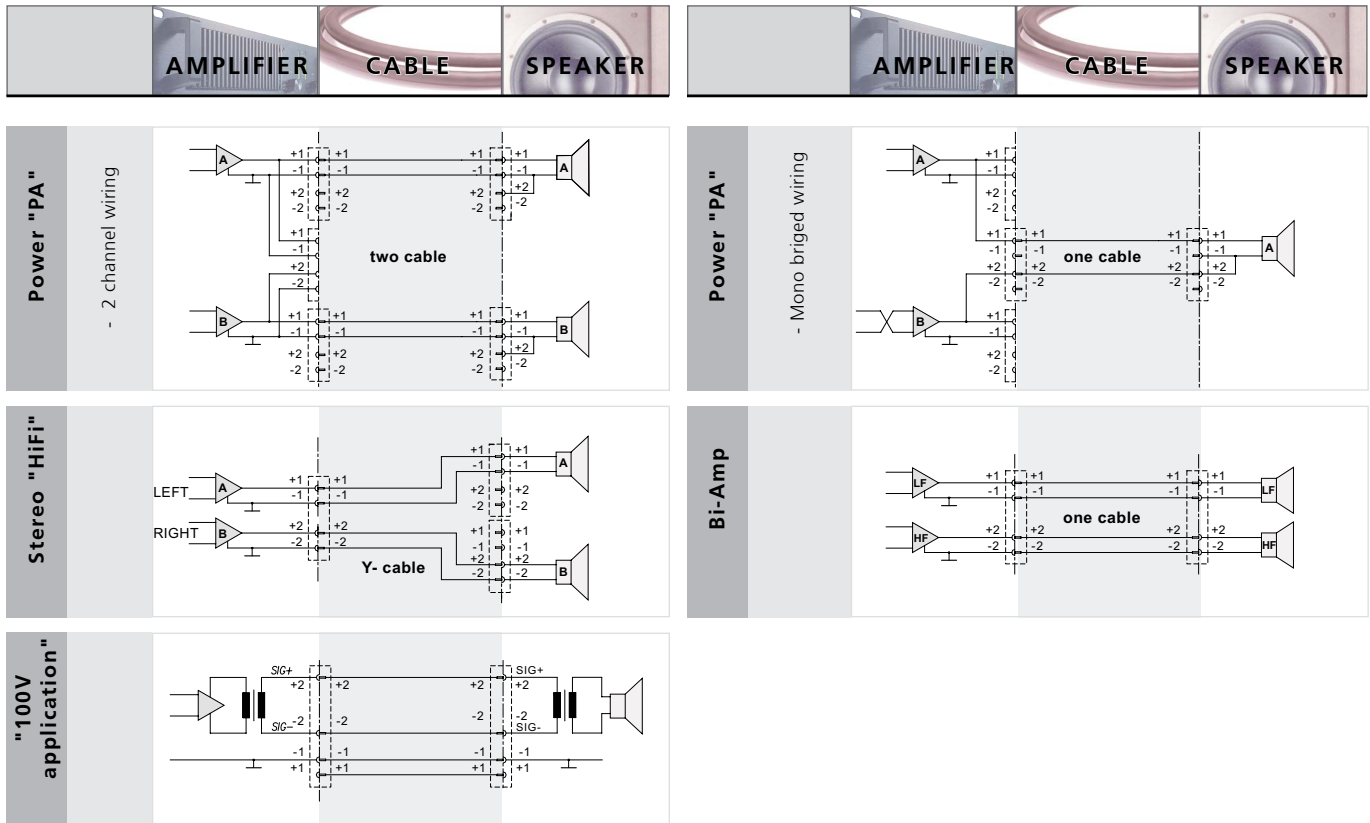
"100V application"

ELEMENTS

Ag	Silver
Al	Aluminium
Au	Gold
Co	Cobalt
Cr	Chromium
Cu	Copper
Ni	Nickel
P	Phosphorus
Pb	Lead
Pd	Palladium
Sn	Tin
Zn	Zinc
SS	Stainless Steel

ALLOYS, PLASTICS, POLYMERS

Brass (Alloy)	CuZn39Pb3
Bronze (Alloy)	CuSn6
Ck 67	Carbon Steel
EPDM	Ethylene Propylene
GR	Glass Reinforced
PA	Polyamide
PBTP	Polybutylene Terephthalate
POM	Polyacetal
PTFE	PolyTetraFluoroEthylene (TEFLON)
PUR	Polyurethane

MEASUREMENT LEGEND

N	Newton
Ω	Ohm
µ	Micro
OD	Outside Diameter
m	Meter(s)
k	Kilo

ENGLISH TO METRIC CONVERSIONS

1/8 inch	3.175	millimeters (mm)
1/4 inch	6.35	millimeters (mm)
1 inch	25.4	millimeters (mm)
	2.54 cm	1 inch
1 foot	30.48	centimeters (cm)
	0.305	meter (m)
6 foot	1.828	meters (m)
50 foot	15.24	meters (m)
100 foot	30.48	meters (m)
1000 foot	304.8	meters (m)

METRIC TO ENGLISH CONVERSIONS

1 centimeter	0.3937	inches
1 meter	39.37	inches
3.281 meter	10	feet
10 meters	32.808	feet
50 meters	164.041	feet
100 meters	328.084	feet

OTHER ABBREVIATIONS

UL®	Underwriters Laboratories
IP Rating	Ingress Protection rating for objects and water ACC IEC529/EN60529
IEC	International Electrotechnical Commission is the international standards and conformity assessment body for all fields of electrotechnology
🔲	UL Recognized Component Mark

⚡	**ENEC** – European norms electrical certification, demonstrates compliance with European safety standards.
🔲	**VDE** Association for Electrical, Electronic and Information Technologies e.V.
AWG	American Wire Gauge

NEUTRIK, **crystal**CON®, **ether**CON®, **max**CON®, **mini**CON®, **nano**CON®, **neutri**CON®, **optical**CON®, **power**CON®, **power**CON® **TRUE1®**, **rofi®**, **rear**TWIST®, **silent**PLUG®, **speak**ON®, **TOP®**, **DiWA®**, **XIRIUM®**, **are registered trademarks of Neutrik AG.**

Neutrik® Part Number Guide

NC3FAH1-B-0-D

Packaging:	D	Cable connector: bulk packed	
Assembly:	D	Chassis connector: disassembled push latch	
Retention:	w/o	Latch lock	
	-0	Retention spring	
	-DA	Asymmetric PUSH	
Shell:	B	Black shell, gold contacts	
	BAG	Black shell, silver contacts	
Grounding:	0	Separate ground contact connected to shell, male only	
	1	Pin 1 & panel & shell connected, no separate ground contact	
	2	Separate ground contact connected to shell & panel, separate Pin 1	
	E	Additional ground contacts	
	w/o number	No ground / shell contact (except 4 / 5 pole), female only	
Termination:	H	Horizontal PCB mount	
	HL	Lateral left PCB mount	
	HR	Lateral right PCB mount	
	L	Solder cups	
	V	Vertical PCB mount	
	Y	IDC for wires (no ground)	
	M3	Mounting holes with M3 thread	
	M25	Mounting holes with M2.5 thread	
	-	Not applicable	
Series:	A, AA, B, D, DL, DLX, MPR, P, PX, RX, X, XX		
Gender:	F	Female	
	M	Male	
Number of Contacts:	2, 3, 4, 5, 6, 7, 8, 12		
Connector Type:	A	Adapter	
	AC	powerCON®	
	B	BNC	
	C	XLR	
	D	dummyPLUG	
	E	etherCON® - RJ45	
	F	RCA / CINCH	
	J (MJ, RJ, SJ)	Jack	
	K	Cable Assembly	
	L	speakON® - Loudspeaker	
	M	Module	
	O	opticalCON - Fiber Optic Connector	
	P	Plug	
	PP	Patch Panel	
	R	Circular Connector	
	T	Transformer	
	TOP	True Outdoor Protection	

Definitions, abbreviations & useful information see page 17.

setting standards

Neutrik® Product Line

XLR Connectors

X Series	XX Series	TOP Series	RX Series	XS Series	A Series	AA Series	B Series	TOP Series	D Series	DL Series	DLX Series	P Series	MPR Series	Combo I Series	Combo A Series

Plugs & Jacks

PX Series	silentPLUG®	timbrePLUG®	ultimatePLUG®	MIL/B-Gauge Type Plugs	0.173" Bantam	MIL/B-Gauge Type Plugs	3.5 mm Plug	Cable Jack	Chassis Jacks	Vertical Jacks	Slim Jacks	M Jacks	Stacking Jacks	Phono - Profi®	Phono - Socket

speakON® Connectors

speakON® SPX Series	speakON® FC Series	speakON® SPX Series	speakON® Adapter	speakON® Chassis Connectors	speakON® Combo	speakON® STX Cable & Chassis Connector

Data Connectors

HDMI Cable & Chassis Connectors

opticalICON® Cable & Chassis Connectors

etherCON® Cable & Chassis Connectors

etherCON® TOP

USB Cable & Chassis Connectors

mediaCON Cable & Chassis Connectors

75 Ohm BNC Connectors

rearTWIST®	Female Cable Jack	Tiny Cable Jack	Bulkhead Jacks	Chassis	Bulkhead Jacks	Tiny Cable Jack

Circular Connectors

nanoCON® Cable & Chassis Connectors	miniCON® Cable & Chassis Connectors	neutriCON® Cable & Chassis Connectors

powerCON® Connectors

powerCON® Cable & Chassis Connectors

powerCON® TRUE1 TOP Cable & Chassis Connectors

32 A powerCON® Cable & Chassis Connectors

Patch Panels

1/4" Patch Panel	NPPA Series - 96 Bantam (TT) Jacks	LF 48 B-Gauge Patchbays

Digital Audio Network

NA2-IO-DPRO	NA2-IO-DLINE	NPS-30W

Accessories

XLR Feedthrough

DMX Adapters

AES / EBU Digital Impedance Trasformer Adapters

Circular Adapters

D Shape Adapters

Modules & Audio Transformers

Goosenecks

etherCON® CAT6A Adapter

NEUTRIK®

The premium brand of the Neutrik Group

LIECHTENSTEIN (HEADQUARTERS)
Neutrik AG, Im alten Riet 143, 9494 Schaan
T +423 237 24 24, F +423 232 53 93, neutrik@neutrikgroup.com

GERMANY / NETHERLANDS / DENMARK / AUSTRIA
Neutrik Vertriebs GmbH, Felix-Wankel-Straße 1, 85221 Dachau, Germany
T +49 8131 28 08 90, neutrik@neutrikgroup.de

GREAT BRITAIN
Neutrik (UK) Ltd., Westridge Business Park, Cothey Way
Ryde, Isle of Wight PO33 1 QT
T +44 1983 811 441, sales@neutrikgroup.co.uk

FRANCE
Neutrik France SARL, 52 rue d'aguesseau, 1er etage, 92100 Boulogne-Billancourt
T +33 1 41 31 67 50, info@neutrikgroup.fr

USA
NeutrikAmericas, 4115 Taggart Creek Road, Charlotte, North Carolina, 28208
T +1 704 972 3050, info@neutrikusa.com

JAPAN
Neutrik Limited, Yusen-Higashinihonbashi-Ekimae Bldg., 3-7-19
Higashinihonbashi, Chuo-ku, Tokyo 103
T +81 3 3663 47 33, mail@neutrik.co.jp

HONG KONG
Neutrik Hong Kong Ltd., Suite 18, 7th Floor Shatin Galleria
Fotan, Shatin
T +852 2687 6055, sales@neutrik.com.hk

CHINA
Ningbo Neutrik Trading Co., Ltd., Shiqi Street, Yinxian Road West
Fengjia Village, Hai Shu Area, Ningbo, Zhejiang, 315153
T +86 574 88250833, sales@neutrik.com.cn

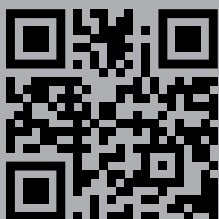**ASSOCIATED COMPANIES**

Contrik AG
Steinackerstrasse 35, 8902 Urdorf, Switzerland
T +41 44 736 50 10, contrik@contrik.ch

H. Adam GmbH
Felix-Wankel-Straße 1, 85221 Dachau, Germany
T +49 08131 28 08-0, anfrage@adam-gmbh.de

CONNEX GmbH
Elbertraße 12, 26135 Oldenburg, Germany
T +49 441 380398-0, info@connex.de

www.neutrik.com