

Loudspeaker Connectors



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NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.

speakON

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 STX 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 SPX and STX 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







conversion

speakON[®] SPX Series 2 & 4 Pole Cable Connector



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



NL4FRX





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.



- (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.



(4) (6)

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

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



NL8FC



NL4FC



NL8FC











1/4" Jack adapter

25.5 [1.0*]

50.0 [1.97*]

Extention coupler

speakON® Adapter



38.0 [1.496*****]

79.6 [3.134*****]



speak O N











Reinforced locking area

Nickel housing

3/16" flat tabs

Vertical PCB mount





NL2MP



NL4MD-H-1



NL4MD-H-3





NL4MPR

NL8MPR

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

NL4MD-V



2.5 [.098'] 4.5 [0.177']

NL4MD-H





26.0 [1.024"]







NL4MPR 7.0 [.275] 26.0 [1.024]



NL8MPR







NL4MP

24.0 [.945**'**]









Locking key

PCB solder pins

speakON[®] Combo





NLJ2MD-V

- D-size flange
- Compatible PCB layout and panel mount to NL4MD-V-1 (NL4MD-H)
- Cost saving combines two connectors in one housing
- \bullet 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



NLJ2MD-V





www.neutrik.com



speakON



Reinforced locking



Latch lock



XL-solder contacts





Protected latch

speakON[®] STX Series Cable Connectors



NLT4FX-BAG

NLT4MX

NLT8FX



• Up to 50 A current rating

- Robust and durable all metal housing
- Sealing ring provides weatherproof IP 54 rating in mated condition on 4 pole version
- Reinforced metal quick lock system for ease and precise locking
- Extra large solder contacts for up to 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

NLT4MX





NLT8FX





speakON









Robust metal housing

XL-solder contacts

1/4" flat tabs

speakON[®] STX Series Chassis Connectors





NLT4MD-V





NLT4MP-BAG

NLT4MP

8.0 [0.315"] 33.7 [1.327"]

4.5 [0.177*]

NLT8MP-BAG

Ó

38.0 [1.496*]



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





NL BM L G6/97] 008 ULCONTENSTEN 380 (1.1967)

38.0 [1.496*****]





Technical Data

ns continuous 4 pole) rms continuous udiosignal, duty cycle 50% ns continuous ac 2 2 eak peak ock (latch) 0 ype terminals	2 + 4 • • • • • • • • • • • • •	STX Series Cable Con. 4 + 8 • • • • • • • • • • • • • • • • • • •	FC Cable Con 4 + 8 30 A - 40 A - 40 A - 3 ≤ 3 • 40 A - 3 (•) 40 A - 3 (•) 40 A - 3 (•) 4 () 4 (speakON Chassis + Combo 2, 4, 8 30 A** 10 A 40 A • • • • • • • • • • • • • • • • • • •	Adapter 2, 4, 8 15 A - 30 A - 30 A - 30 A - 4 - 4 - - - - - - - - - - - - - - -	STX Series Chassis - - - - - - - - - - - - - - - - - -
ns continuous 4 pole) rms continuous udiosignal, duty cycle 50% ns continuous ac 2 2 eak peak ock (latch) 0 ype terminals 4 ng 6 for 3/16 "FASTON® (4.8 x 0.5 mr 5 for 1/4 " FASTON® (6.3 x 0.8 mr rsion	Cable Con. 2 + 4 • • • • • • • • • • • • •	Cable Con. 4 + 8 - - - - - - - - - - - - - - - - - - -	Cable Con 4 + 8 30 A - 40 A - 3 \leq 3 \circ \circ \circ \circ \circ \circ \circ \circ	Combo 2, 4, 8 30 A** 10 A 40 A ● ≤ 3 • - - - - (ST)	15 A - 30 A - ≤ 3 • • • • • • • • • • • • •	Chassis 4 + 8
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0% GR	•	-	•	-	-	-
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(CuSn6)	-	-	-	•	•	-
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e C	ecast (ZnAI4Cu1) etal (POM) nide (PA 6 15% GR) C to +80 °C (mated condition) (8 pole, mated cond.) HB	ecast (ZnAl4Cu1) • etal (POM) • nide (PA 6 15% GR) • C to +80 °C • (mated condition) - (8 pole, mated cond.) -	ecast (ZnAl4Cu1) • • etal (POM) • • nide (PA 6 15% GR) • C to +80 °C • • (mated condition) - • (8 pole, mated cond.) - • HB • IEC 61984 •	ecast (ZnAl4Cu1) • etal (POM) • nide (PA 6 15% GR) • C to +80 °C • (mated condition) - (8 pole, mated cond.) - HB • IEC 61984 •	ecast (ZnAl4Cu1) - etal (POM) - nide (PA 6 15% GR) - C to +80 °C - (mated condition) - (8 pole, mated cond.) - HB - IEC 61984 -	ecast (ZnAl4Cu1) - - - etal (POM) - - - nide (PA 6 15% GR) - - - C to +80 °C - - - (mated condition) - - - (8 pole, mated cond.) - - - HB - - - IEC 61984 - - -

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	e 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

NLT4FX	4 pole	Female cable connector, nickel metal housing, chuck and bushing
NLT4FX-BAG	4 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT4MX	4 pole	Male cable connector, nickel metal housing, chuck and bushing
NLT4MX-BAG	4 pole	Male cable connector, black-chrome metal housing, chuck and bushing
NLT8FX	8 pole	Female cable connector, nickel metal housing, chuck and bushing
NLT8FX-BAG	8 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT8MX-BAG	8 pole	Male cable connector, black-chrome metal housing, chuck and bushing

Accessories

000 C



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 into a right-angel 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
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.



 \bigcirc

1/4" flat tabs*

black chrome solder contacts

Wiring

(E)

Remarks

Ordering Information Chassis Connectors Flange layout: Hole layout: Ο D-size D-size G-size flange Thru holes standard ⊕ with four mirrored hole \odot



A	hole	B	position)	holes
	Pole	Flange size	Flange layout	Hole layout	Color
Traditiona	ally				

NL2MP	2	D-size	А	D	black	3/16" flat tabs*	Does not intermate with 4-pole cable connected
NL2MD-H	2	D-size	А	D	grey	horizontal PCB	Does not intermate with 4-pole cable connected
NL2MD-V	2	D-size	А	D	black	vertical PCB	Does not intermate with 4-pole cable connected
NL4MP	4	D-size	А	D	black	3/16" flat tabs*	
NL4MP-1	4	D-size	А	E	grey	3/16" flat tabs*	
NL4MP-2	4	D-size	В	E	black	3/16" flat tabs*	
NL4MP-3	4	D-size	А	E	black	3/16" flat tabs*	
NL4MP-M3	4	D-size	А	F	black	3/16" flat tabs*	
NL4MD-H	4	D-size	А	E	grey	horizontal PCB	
NL4MD-H-1	4	D-size	А	D	black	horizontal PCB	
NL4MD-H-2	4	D-size	В	E	black	horizontal PCB	
NL4MD-H-3	4	D-size	А	E	black	horizontal PCB	
NL4MD-V	4	D-size	А	D	black	vertical PCB	
NL4MD-V-1	4	D-size	А	E	grey	vertical PCB	
NL4MD-V-2	4	D-size	В	E	black	vertical PCB	
NL4MD-V-S	4	D-size	А	E	black	vertical PCB	switched contacts
NL4MP-ST	4	D-size	А	D	black	screw terminal	
NL4MP-UC	4	D-size	А	D	black	1/4" flat tabs*	Ultra high current, up to 40 A rms
NL4MPR	4	round G-size flange	С	D	black	3/16" flat tabs*	
NL8MD-V	8	square G-size flange	С	D	Ni	vertical PCB	
NL8MD-V-BAG	8	square G-size flange	С	D	black chrome	vertical PCB	
NL8MD-V-1	8	square G-size flange	С	E	Ni	vertical PCB	
NL8MPR	8	square G-size flange	С	D	Ni	3/16" flat tabs*	
NL8MPR-BAG	8	square G-size flange	С	D	black chrome	3/16" flat tabs*	
STX Series							
NLT4MP	4	square G-size flange	С	D	nickel	1/4" flat tabs*	
NLT4MP-BAG	4	square G-size flange	С	D	black chrome	1/4" flat tabs*	
NLT4MD-V	4	square G-size flange	С	E	nickel	vertical PCB	
NLT4MD-V-1	4	square G-size flange	С	D	nickel	vertical PCB	
NLT4FP	4	square G-size flange	С	D	nickel	solder contacts	
NLT4FP-BAG	4	square G-size flange	С	D	black chrome	solder contacts	
NLT4FD-V-BAG	4	square G-size flange	С	D	black chrome	vertical PCB	
NLT8MP	8	square G-size flange	С	D	nickel	1/4" flat tabs*	
NU TONAD DAG	-		-	-			

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

С

С

D

D

black chrome



NLT8MP-BAG

NLT8FP-BAG

8

8

square G-size flange

square G-size flange

Ordering Information Chassis Connectors

Pole Flange size Flange layout Hole layout Color Wiring Remarks Combo Series NLJ2MD-V 2 D-size A E green vertical PCB NLJ2MD-V-1 2 D-size A E grey vertical PCB									
NLJ2MD-V 2 D-size A E green vertical PCB NLJ2MD-V-1 2 D-size A E grey vertical PCB		Pole	Flange size	Flange layout	Hole layout	Color	Wiring	Remarks	
NLJ2MD-V 2 D-size A E green vertical PCB NLJ2MD-V-1 2 D-size A E grey vertical PCB									
NLJ2MD-V-1 2 D-size A E grey vertical PCB	Combo Serie	s							
NLJ2MD-V-1 2 D-size A E grey vertical PCB									
	NLJ2MD-V	2	D-size	А	E	green	vertical PCB		
	NLJ2MD-V-1	2	D-size	A	E	grey	vertical PCB		
NLJZMD-H Z D-size A E green horizontal PCB	NLJ2MD-H	2	D-size	А	E	green	horizontal PCB		

Accessories



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
6 6 D D	

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 FP cutout airtight, use the rubber sealing which covers the entire hole.)

(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)



Wiring Suggestion

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

	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-



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