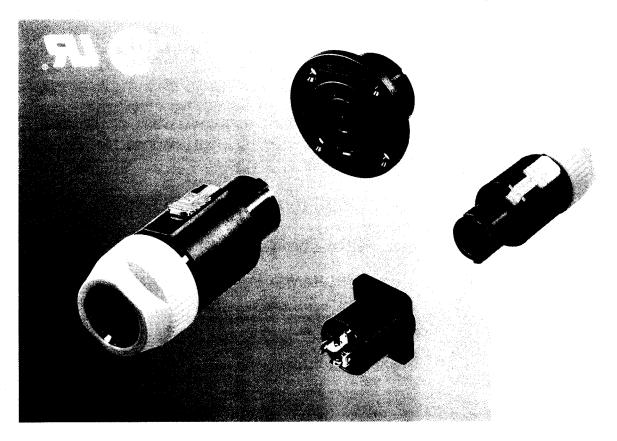
Speakon®

Loudspeaker Amplifier Connectors



WE ARE SETTING STANDARDS

- Reliable and extremely robust
- 4- and 8-pole version with the new quicklock system
- NEUTRIK unique chuck type strain relief
- Cable connectors have solid contacts with screw-type terminals
- The chassis types are fast and reliable to wire with flat quick-connect terminations (e.g. FASTON®)
- Excellent price / performance ratio



FEATURES

- 4- and 8-pole version now available with new quicklock system.
- Much easier handling of the release mechanism with a locking lever.
- Only 2 variations of the connector in 4- and 8-pole configuration for simplicity: cable version and chassis-mount type
- All contacts on both connectors are touch proof, the connectors meet the safety requirements of IEC 65, IEC 348 and are UL Recognized and CSA listed
- Terminations are solderless, making the connectors field serviceable, and the chassis types are fast and reliable to wire with FASTON® terminals.
- Chassis connector for speakers is airtight and uses panel cutouts the same as existing audio connector types for flexibility and simplicity of metal/wood work tooling.
- Extremely robust, step-on proof, multiple contact finger for highest connecting integrity.
- Contacts are designed to prevent any damage from arcing when disconnected under load.

SPECIFICATION AND TECHNICAL DATA

UL-, CSA-listed

MECHANICAL MATERIALS ELECTRICAL

Rated current/contact: 20 A rms continuous.

40 A rms 1 min.

(Connects "1+" to Tip, "1-" to Sleeve of 1/4" Jack. Same Dimensional of NL4FC.)

Dielectric strenath: 4240 V pp 250 V ac Rated voltage:

 \leq 3 m Ω after 5000 Contact resistance: insertion-withdrawal operations

Insulation resistance - initial: > $2 \cdot 10^9 \Omega$ - after damp heat test: > 108 Ω

Inrush/outrush current capability (12 V source):

300/30 A/200 ms

Creepage distance: according to IEC 664-1 Retention method: Quicklock with securing lever Contact: NEUTRIK chuck principle Cable anchoring: Cable OD range: 5 - 15 mm (4-pole)

8 - 20 mm (8-pole) Cable retention force:

≥ 220 N, depending on cable dia and material

Cable: screw-type terminals (use with end sleeves for strands) or soldering. Max. wire size/contact: 4 mm²/12 AWG (stranded)

Chassis: flat tabs for FASTON 0.187" x 0.02" (4.8 mm x 0.5 mm) or PCB-version with pins 1.6 mm x 0.5 mm

ZnAl4Cu1 / CuSn8

4 μm Ag plated

Securing element:

ZnAl4Cu1. CuNi plated

Spring element: Neoprene ring PA 6.6 30% GR Housing: Insert (FC part): PBT 20% GR PA 6.6 15% GR Bushing:

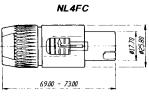
POM Chuck:

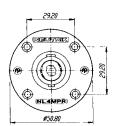
Temperature range: -30°C to +80°C

ORDERING INFORMATION

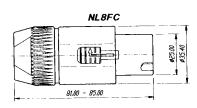
	4-pole	8-pole
Cable connector, quicklock with securing lever	NL4FC	NL8FC
with gold plated contacts and securing lever	NL4FC-B	-
Chassis connector, air tight	NL4MP	-
with gold plated contacts	NL4MP-B	-
NEUTRIK D- and G-series compatible		
Chassis connector, air tight, round flange,	NL4MPR	NL8MPR
Cannon EP 13/14 compatible		
Vertical PCB-version, air tight	NL4MD-V	NL8MD-V
Horizontal PCB-version, air tight	NL4MD-H	
Coupler for linking (extending) cables	NL4MM	NL8MM
Adapter to 1/4" 2 pole jack (6.3 mm)	NA4LJ	

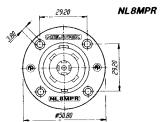
DIMENSIONAL DRAWINGS

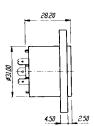




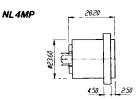
NL4MPR 28.20





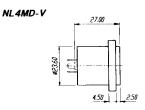


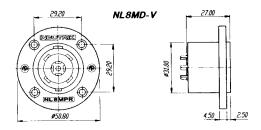




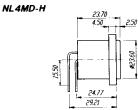
4.50 2.50

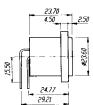






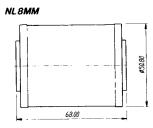




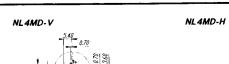




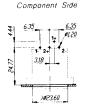
ø50.80



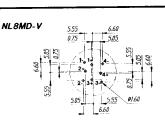


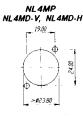


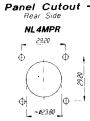
NL4MM

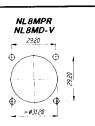


PCB - Layout





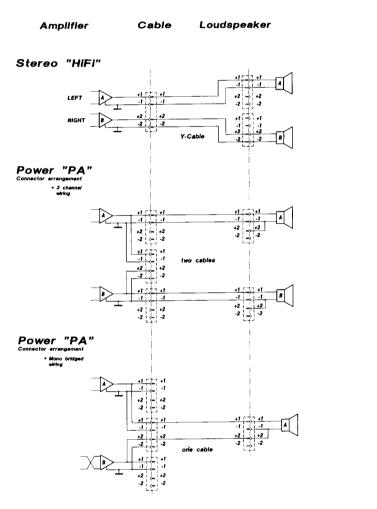


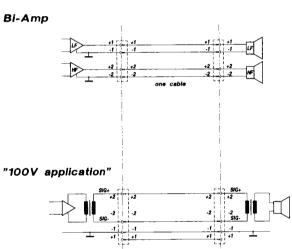


WIRING

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





Çable

Amplifier

Loudspeaker

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