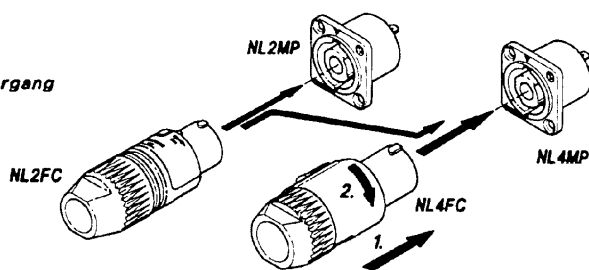
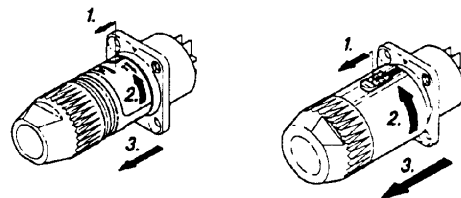


Bedienung Handling

Einsteck-Vorgang Engagement



Aussteck-Vorgang Separation

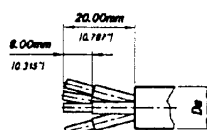


Montageanleitung Assembly Instructions

Not for use as mains (A.C.) connectors

A1) NL4FC

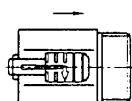
Kabelvorbereitung Cable Preparation



Da: 5.00 [0.197"]-11.00 [0.433"]
... Spannzange weiss
white chuck

Da: 9.50 [0.374"]-15.00 [0.59"]
... Spannzange schwarz
black chuck

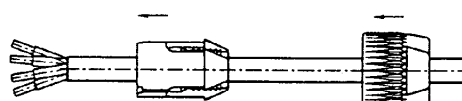
Montage Assembling



Gehäuse
Housing



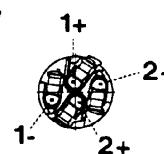
Einsatz
Insert



Spannzange
Chuck

Spannhülse
Bushing

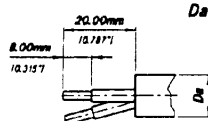
Verdrahtung Wiring



- 1) Spannhülse u. Spannzange auf Kabel schieben (Spannzange kann auch nachträglich angebracht werden).
Put bushing and chuck onto the cable.
- 2) Kabel lt. Anweisung vorbereiten.
Prepare cable as shown above.
- 3) Drähte in die Klemmlöcher am Einsatz einführen und mit Schraube und Klemmblech mittels Inbus-Gewindestift SW 1.5mm oder Schraubenzieher befestigen.
Insert the wires into the terminals and fasten the clamping device by means of Allenkey 1/16" or flat screw driver.
- 4) Einsatz und Spannzange in das Gehäuse schieben (Führungsrippen und Führungsnut beachten!).
Push insert and chuck into housing (pay attention to the guiding keyway!).
- 5) Spannhülse mittels Gabelschlüssel SW 19mm fest anschrauben.
Fasten bushing by means of a fork wrench 3/4".

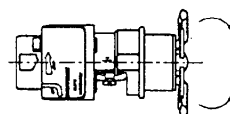
A2) NL2FC

Kabelvorbereitung Cable Preparation



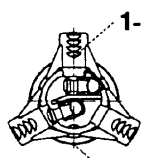
Da: 4.00 [0.157"]-10.00 [0.394"]

Montage Assembling



Befestigungsring
Ring

Einsatz + Spannzange
Insert + Chuck

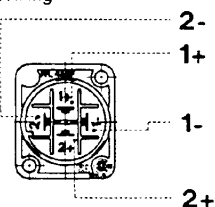


Spannhülse
Bushing

- 1) Spannhülse auf Kabel schieben.
Put bushing onto the cable.
- 2) Kabel lt. Anweisung vorbereiten.
Prepare cable as shown above.
- 3) Drähte in die Klemmlöcher am Einsatz einführen und mit Schraube und Klemmblech mittels Inbus-Gewindestift SW 1.5mm oder Schraubenzieher befestigen.
Insert the wires into the terminals and fasten the clamping device by means of Allenkey 1/16" or flat screw driver.
- 4) Befestigungsring in Richtung Spannzange schieben.
Snap on locking ring into the chuck direction as shown above.
- 5) Spannhülse mittels Gabelschlüssel SW 17mm fest anschrauben.
Fasten bushing by means of a fork wrench 11/16".

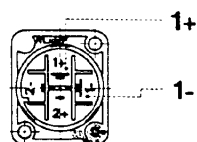
B) NL4MP + NL2MP

Verdrahtung Wiring

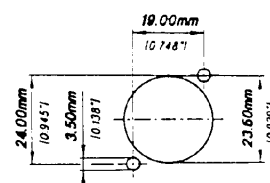


für Flachsteck-
hülsen 4.8mm x 0.5mm
for flat quick-connect
receptacles 0.187" x 0.020"

für Flachsteck-
hülsen 4.8mm x 0.5mm
for flat quick-connect
receptacles 0.187" x 0.020"



Frontplattenausschnitt (Rückseite) Panel Cutout (Rear Side)



FEATURES

- 2, 4 and 8 pole version with the NEUTRIK® "Quick Lock" system
- Much easier handling of the release mechanism with a locking lever on 4 and 8-pole version
- Positive keying and latching on the 2 pole version
- Only 2 variations of the connector in 2, 4 and 8 pole configuration for simplicity: cable version and chassis-mount type
- The new cable connector NL2FC mates also with NL4MP (1+/1-)
- All contacts on both connectors are touch proof, the connectors meet the safety requirements of EN 60065 / IEC 60065 (CE) 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 e.g. 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

TECHNICAL DATA

US.Pat.: 5205749

UL-Recognized; CSA listed
UK.Pat.: 2209635

A.Pat: 387871

ELECTRICAL

Rated current/contact: 30 A rms continuous,
40 A rms 1 min.
Dielectric strength: 4240 V pp
Rated voltage: 250 V ac
Contact resistance: ≤ 3 mΩ after 5000
insertion-withdrawal operations

Insulation resistance - initial: > 2 · 10⁹ Ω
- 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

MECHANICAL

Retention method: Quicklock with securing lever
Cable anchoring: NEUTRIK® chuck principle
Cable OD range: 6 - 10 mm (2 pole)
5 - 15 mm (4 pole)
8 - 20 mm (8 pole)

Wiring:
• **Cable:** screw-type terminals (use with end sleeves for strands
on 8 pole version) or soldering.
Max. wire size/contact: 4 mm² (12 AWG strandet)
• **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

Cable retention force:
≥ 220 N, depending on cable dia and material

MATERIALS

Contacts: CuZn39Pb3 / ZnAl4Cu1 / CuSn8,
4 μm Ag plated
Securing element: ZnAl4Cu1, CuNi plated
Spring element: Neoprene ring
Housing: PA 6 30% GR

Insert (FC part): PBTP 20% GR
Bushing: PA 6 15% GR
Chuck: POM
Temperature range: -30°C to +80°C

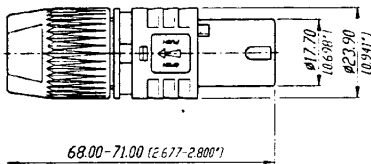
ORDERING INFORMATION

	2 pole	4 pole	8 pole
Cable connector, quicklock with securing lever with gold plated contact and securing lever	NL2FC NL2FC-B	NL4FC NL4FC-B	NL8FC -
Chassis connector, air tight with gold plated contact NEUTRIK D- and G-series compatible	NL2MP NL2MP-B	NL4MP NL4MP-B	- -
Chassis connector, air tight, round flange, Cannon EP 13/14 compatible	-	NL4MPR	NL8MPR
Direct on 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) (Connects "1+" to Tip, "1-" to Sleeve of 1/4" Jack. Same dimensions as NL4FC)		NA4LJ	

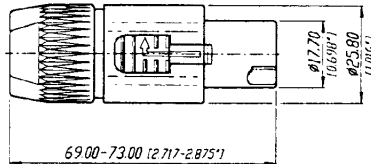
DIMENSIONAL DRAWINGS

Cable Connector

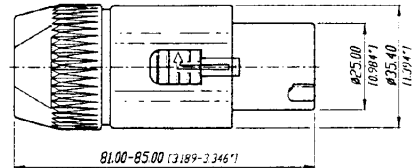
NL2FC



NL4FC

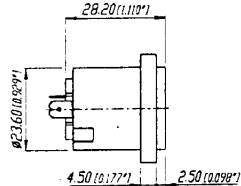
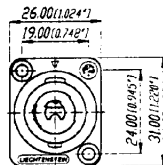


NL8FC

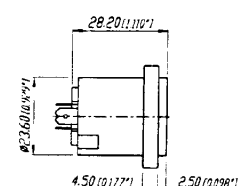
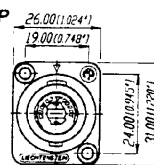


Receptacle

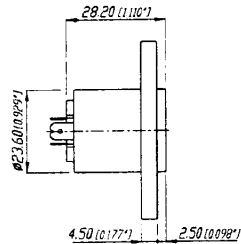
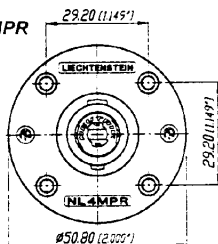
NL2MP



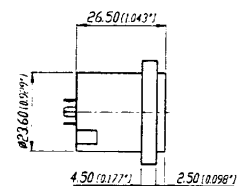
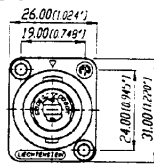
NL4MP



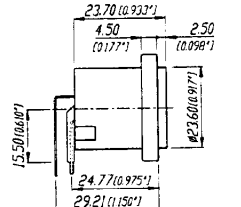
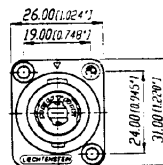
NL4MPR



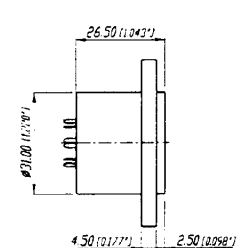
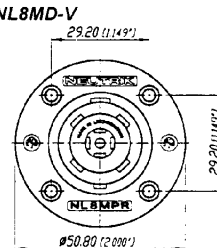
NL4MD-V



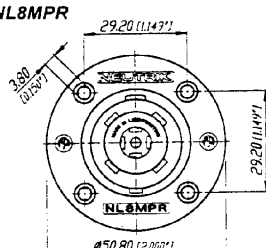
NL4MD-H



NL8MD-V

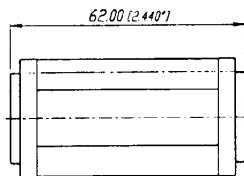
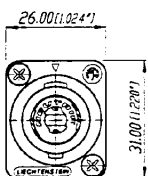


NL8MPR

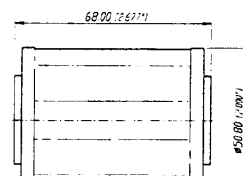
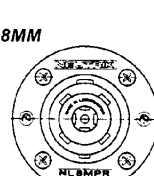


Coupler

NL4MM



NL8MM

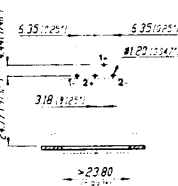


PCB-Layout (Component side)

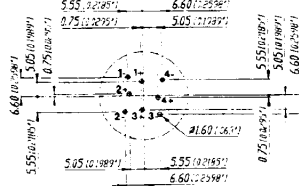
NL4MD-V



NL4MD-H

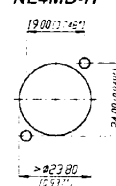


NL8MD-V

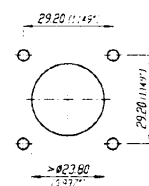


Panel Cutout (Rear side)

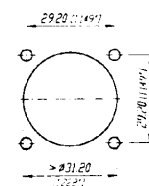
NL2MP



NL4MPR



NL8MPR



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

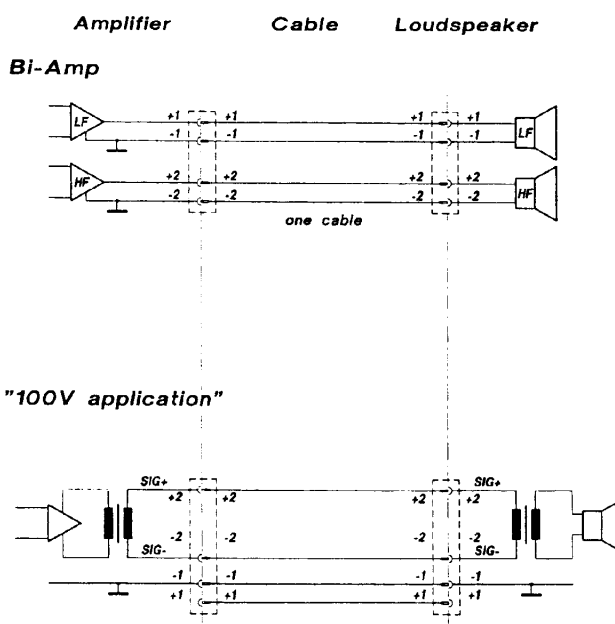
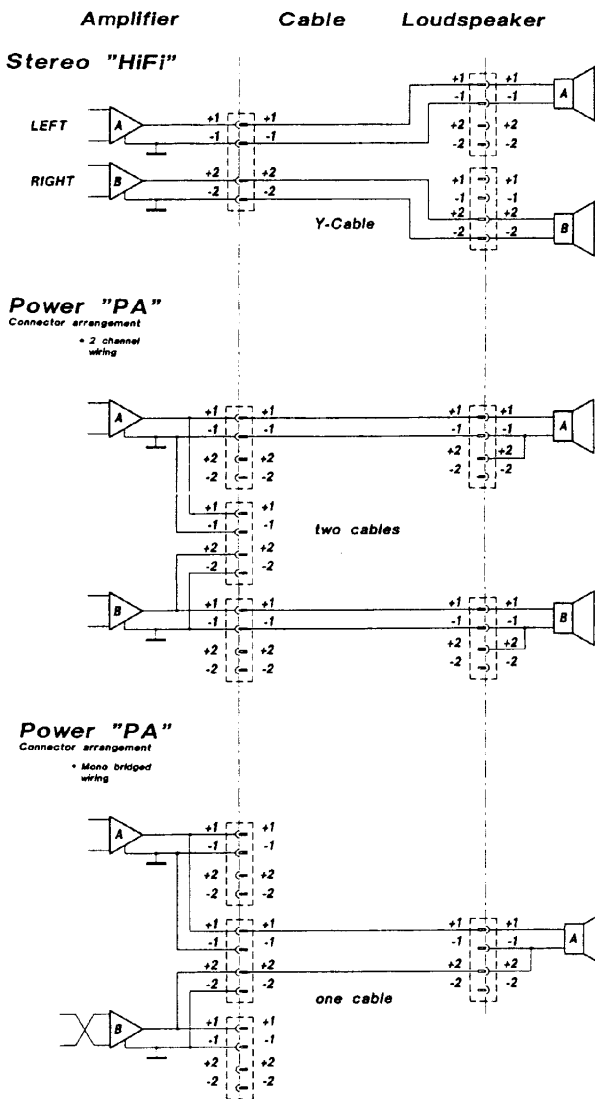
CABLE

SPEAKER

Stereo ("HiFi")	one NL4MP socket left channel pins 1+/1- right channel pins 2+/2-
POWER ("PA") Standard	three NL4MP sockets "A" socket: left channel pins 1+/1- "B" socket: right channel pins 1+/1- "M" socket: left channel pins 1+/1- right channel pins 2+/2-
Bridged mono	
Bi-Amp	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-

NL4FC on amplifier end, four conductor cable splits into two pairs with NL4FC on each end
a two-conductor cable for each channel with NL4FC on both ends
a special two-conductor cable, on both ends wired to pin 1+/2+ of NL4FC
a four-conductor cable on both ends wired to pins 1+/1-, 2+/2- of NL4FC

one NL4MP per speaker left speaker pins 1+/1- right speaker pins 2+/2-
NL4MP pin 1+ to speaker coil "+" NL4MP pins 1- and 2+ to speaker coil "-"
NL4MP pin 1+ to speaker coil "+" NL4MP pins 1- and 2+ to speaker coil "-"
one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-



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