

our heritage is precision
our dedication is innovation
our promise is value



NEUTRIK®



WHO IS NEUTRIK AG?



The company

NEUTRIK was founded in the Principality of Liechtenstein (Swiss Economic Territory) in 1975 by well identified, internationally acknowledged professionals, who had worked for many years in the associated fields of electro-acoustics and precision engineering.

As it has been from the very beginning of the company, the singular goal remains that of deriving optimum solutions to market needs by linking long standing talents and continuing research in these two disciplines: electro-acoustics and precision engineering.

Vitally important to the success of the company and its products around the world, is the assembled team of creative, market responsive, engineers and technicians. Valuable, as well, in the development of NEUTRIK's products is the highly regarded local tradition of expertise in precision-mechanics and the most advanced design and manufacturing technologies.

An outstanding network of representatives around the world has been established, after thorough evaluation, to provide technical support and consulting as well as product and logistic service.

Since its inception, NEUTRIK's international technical reputation has been built upon, and products derived, from some 25 innovative patents granted. As well, many formally documented acceptance standards, issued upon completion of severe and comprehensive test and evaluation programs, by some of the world's foremost audio authorities and OEM users has added to NEUTRIK's worldwide reputation.

The product

- A NEUTRIK product must be innovative and original.
- A NEUTRIK product must be market responsive.
- A NEUTRIK product must give the user better service than one previously used.
- A NEUTRIK product must be exciting.

The quality

- Quality starts with the initial concept and design.
- Maintaining «controlled quality throughout the entire process of manufacture» is the essential achievement of customer satisfaction.
- International standards of test and evaluation, quality assurance and quality control, performed in the most comprehensively equipped laboratories form the basis for the recognized quality of NEUTRIK products.
- Every NEUTRIK staff member constantly employs the ideal of Swiss Precision quality, which the World has so grown to respect, and which has been so important in the establishment of customer confidence in NEUTRIK products.

Our goal: **To offer you an outstanding product at an attractive price.**

NEUTRIK AG

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INTRODUCTION

We are pleased to be able to present you with our new catalogue. It contains all our connector products and accessories available as at June 1987 apart from our customized «OEM» items.

This catalogue has been carefully prepared and edited but we can not accept responsibility for any mistakes or errors. We also reserve the right to make any technical alterations and improvements.

General technical data and our international representatives are listed on the fold out of this page.

Our connectors are manufactured with great care in our own facilities, with our own tools and machines and are protected by international patents, trade marks etc. Almost every model incorporates substantial innovations and improvements above the state of the art.

All XLR products are fully compatible with all known brands which are manufactured according to the relevant standards like IEC 268 as well as IEC WG 48B, sec. 114 (draft). We ask you to take special note of our gooseneck kits, our modules, adapters and transformers.

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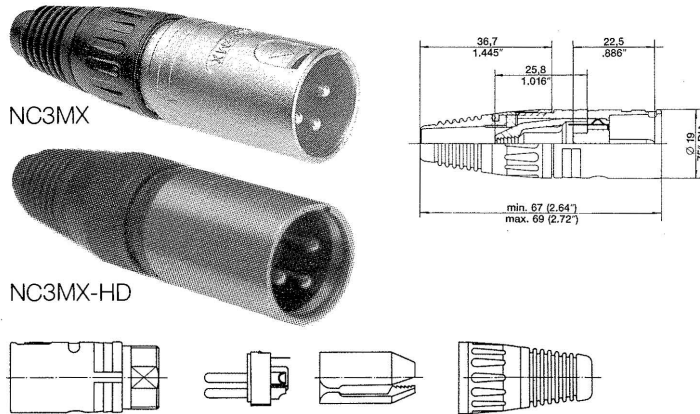


MALE AND FEMALE CABLE CONNECTORS

X-SERIES

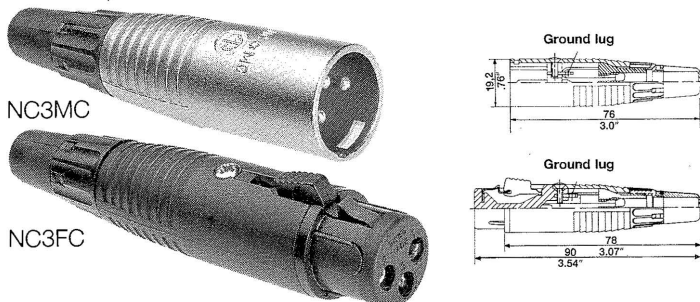
A new worldwide accepted standard – the **smallest** available XLR-cable-connector consists of only 4 parts and eliminates the use of a set screw or crimping during assembly. One piece unbreakable die-cast housing, bellows-style polyurethane flex relief and chuck types snap on cable clamp providing a secure strain relief with maximal cable protection for cables between 2.8 – 8 mm Ø. Special versions available:

HEAVY DUTY (HD)-VERSION for hostile environments / S-VERSION with built in ON/OFF switch



C-SERIES

More than 15 million of these tried and trusted connectors have been made during the last 10 years. They are simple to disassemble and reassemble without removing the flex-relief. For cables 3,8–7,5 mm Ø (0,15"–0,27") (with «grey» chuck up to 8 mm).



MAINS CONNECTORS – see page 5 / SCREW-LOCK Version – page 10

MX:

3-pin male cable connector, rear mountable insert, no tool required.

MX-HD:

HD-version: all metal, stainless steel shell (18/8), dust and water proof according to IP65.

MX-TYPE	shell		
	contact	nickel	
STANDARD	silver	NC3MX	NC3MX-BAG
STANDARD	gold	—	NC3MX-B
HEAVY DUTY	gold	NC3MX-HD	NC3MX-HD-B

FX:

3-pole female cable connector, one piece unbreakable die-cast housing, damping ring for tight and noiseless fit, steel latch lock with ground contact.

FX-HD:

HD-version: metal strain relief bushing, rubber jacket, dust and water protected according to IP 65 when mated with MX-HD, minimum IP 54 with most other mating connectors or microphones.

FX-S:

Cable connector with integrated ON-OFF rotary switch (OFF: short circuit between contact 2 and 3). Noiseless, easy to operate and to assemble.

FX-TYPE	shell		
	contact	nickel	
STANDARD	silver	NC3FX	NC3FX-BAG
STANDARD	gold	—	NC3FX-B
HEAVY DUTY	silver	NC3FX-HD	—
SWITCH	gold	NC3FX-S	NC3FX-SB

Note:

- 4- to 6-pole versions are available from Feb. '88 onwards.
- Coloured sleeves, colours 1÷9 according resistor code. Boxes by 100 pcs.
Order Nr.: BSX 1–9

TYPE: MC

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3MC	NC4MC	NC5MC	NC6MC
black chrome	gold	NC3MC-B	NC4MC-B	NC5MC-B	NC6MC-B
black chrome	silver	NC3MC-BAG	NC4MC-BAG	NC5MC-BAG	NC6MC-BAG

TYPE: FC

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3FC	NC4FC	NC5FC	NC6FC
black chrome	gold	NC3FC-B	NC4FC-B	NC5FC-B	NC6FC-B
black chrome	silver	NC3FC-BAG	NC4FC-BAG	NC5FC-BAG	NC6FC-BAG

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SPECIFICATIONS

General specifications and materials* (XLR and phone plugs)

Mechanical properties

Retention Method:	snap lock
Wiring:	soldering or crimping
Cable retention:	chuck type and sleeve
Housing:	Zn Al 4 Cu1, gal Cu / Ni / (Cr)
Contact insert:	PBTPgv (Polyester) PA6-6gv (Nylon)
Latch lock:	CK 60 / St3K32
Cable clamp:	POM (Polyacetal)
Sleeve:	PU (Polyurethan)
Contacts:	all 3-pole contacts are furnished with Neutrik-Helitact contacts Material: CuZn 39 Pb 3, CuSn 8
Contact surface:	gal 3 μ Ag gal 0,5 μ Au hard (Galvatronic®) over 5 μ Ni, gal. Optalloy®: ternary alloy 55 % Cu, 25 % Sn, 20 % Zn, 650 Hv
Operating temp.:	-30° C – +80° C
Insertion force:	≤ 20 N
Withdrawal force:	≤ 10 N

Electrical properties

	number of contacts				
	3	4	5	6	
Rated current per contact:	16	10	7,5	7,5	A
Max. wire size:	1,5/16	1,2/18	1,2/18	1,2/18	mm ² /AWG
Capacity between contacts:	≤ 4	≤ 7	≤ 7	≤ 7	pF

Rated voltage:	250 Vac
Test voltage:	1500 Vac
Current resistance:	≤ 3m Ohm
Insulation resistance after salt spray test IEC 68-2-11:	≥ 10 ⁹ Ohm

No significant deterioration of all properties after environmental tests according to IEC 68-2-30 Db.

*) Different specifications are quoted at relevant items.

Article-Code:

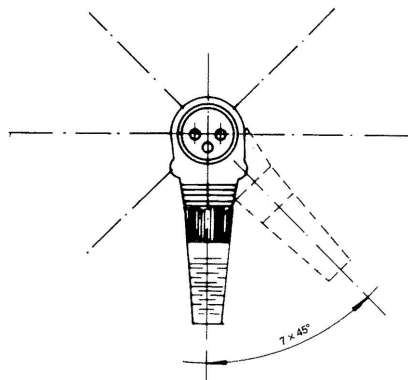
X X 0 X X (0)XXX

└───┘	Variations / Surfaces / Contacts
└───┘	Applications: e.g.: C = cable, P = chassis
└───┘	Sex: M = Male (pins) F = Female (bushings)
└───┘	Number of contacts
└───┘	Basic models: C = XLR / P = plug / J = jack /
└───┘	A = adapter / L = speakers / M = Module
└───┘	Manufacturer: N = Neutrik

RIGHT-ANGLE CONNECTORS



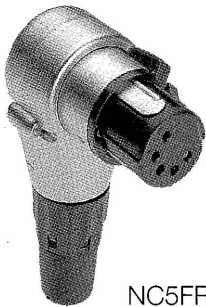
NC3MRC



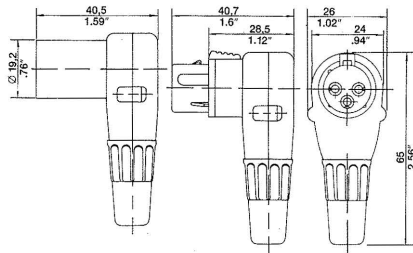
Compact very low profile right-angle connectors. 7 × 45° indexing of main body allows highest packing density. Neutrik Chuck Type cable clamp for cables from 3.8 to 7.5 mm Ø.

Right-Angle Male: connector insert same as MC-versions

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3MRC	NC4MRC	NC5MRC	NC6MRC
black chrome	gold	NC3MRC-B	NC4MRC-B	NC5MRC-B	NC6MRC-B
black chrome	silver	NC3MRC-BAG	NC4MRC-BAG	NC5MRC-BAG	NC6MRC-BAG



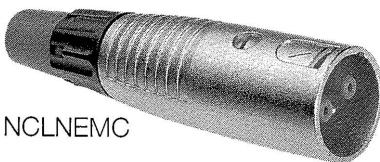
NC5FRC



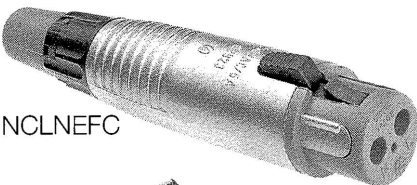
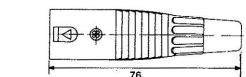
Right-Angle Female: connector insert same as FC-versions

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3FRC	NC4FRC	NC5FRC	NC6FRC
black chrome	gold	NC3FRC-B	NC4FRC-B	NC5FRC-B	NC6FRC-B
black chrome	silver	NC3FRC-BAG	NC4FRC-BAG	NC5FRC-BAG	NC6FRC-BAG

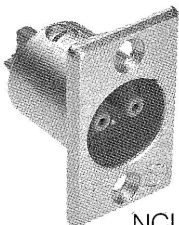
MAINS CONNECTORS «LNE»



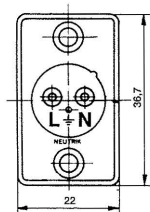
NCLNEMC



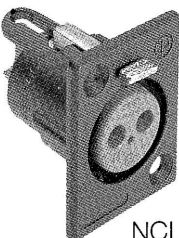
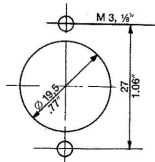
NCLNEFC



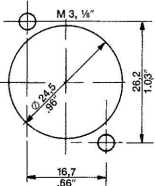
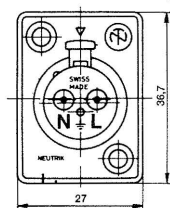
NCLNEMP



Front panel cut out



NCLNEFP



Extremely robust **lockable** mains connectors for industrial/medical electronics, instrumentation and computer technology, where a fail proof mains connector is of vital importance.

Excellent cable protection, simple assembly and very compact right-angle versions are additional benefits of these connectors.

Electrical data:

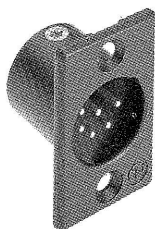
Number of contacts	2P + E (life, neutral, earth)
Operating voltage	250 VAC
Rated current (20° C)	5 A
Test voltage (IEC 65)	4240 V peak to peak
Insulation resistance (after 48 h, 30° C, 95 % rh)	≥ 10 ⁸ Ohms
Contacts resistance	≤ 3 m Ohms
Flammability UL 94	V-0
Operating temperature	-40° C – +80° C
Cable size	3.8 – 7.5 mm Ø
Max. wire size	0.5 mm ² (AWG 20)

LNE-TYPES	Order Numbers
Cable connector female	NC LNE FC
Cable connector male	NC LNE MC
Angle connector female	NC LNE FRC
Angle connector male	NC LNE MRC
Chassis female	NC LNE FP
Chassis male	NC LNE MP

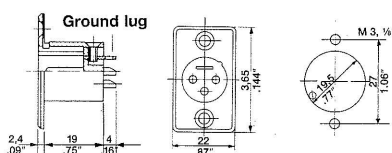
NEUTRIK®



RECEPTACLES, STANDARD: «P», PLASTIC: «PP»



NC6MP-BAG



These «classics» are fully compatible with the equivalents from e.g. Cannon, Switchcraft etc., made according accepted standards.

MP:

Male chassis receptacle, all metal, 3-6 poles, shell connected via ground lug.

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3MP	NC4MP	NC5MP	NC6MP
black chrome	gold	NC3MP-B	NC4MP-B	NC5MP-B	NC6MP-B
black chrome	silver	NC3MP-BAG	NC4MP-BAG	NC5MP-BAG	NC6MP-BAG

FP:

Female chassis receptacle, all metal, 3-6 poles, unbendable latchlock, ground contact via soldering lug.

shell	contacts	number of contacts			
		3	4	5	6
nickel	silver	NC3FP	NC4FP	NC5FP	NC6FP
black chrome	gold	NC3FP-B	NC4FP-B	NC5FP-B	NC6FP-B
black chrome	silver	NC3FP-BAG	NC4FP-BAG	NC5FP-BAG	NC6FP-BAG

MPP / FPP:

These male and female receptacles are a low cost alternatives to the all metal versions.

They are recommended when a complete RF-protection, demanding mechanical stability and a latching possibility are of minor consideration.

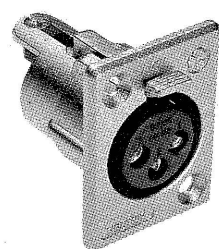
Dimensions of the housings are compatible with «D»-versions, contacts are same as with the «X»-versions.

The female receptacle is furnished with a retention spring which also provides electrical grounding of the mating shell.

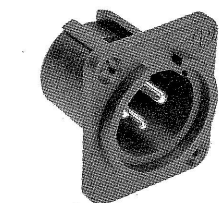
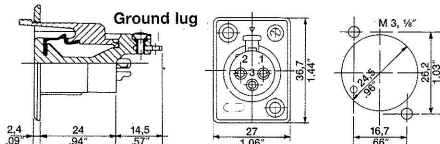
PPCB:

Adapters for printed circuit mount, for vertical and horizontal PCB's, flow solderable, allow a very simple and easy to release connection from the connector to the PCB. The connectors are mounted to the chassis (front or rear), the adapters soldered to the print and both parts plugged together.

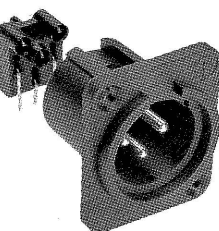
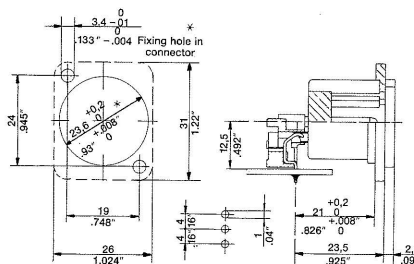
chassis male, 3-poles	NC3MPP
chassis female, 3-poles	NC3FPP
print adapter for vertical prints	PPCB-V
print adapter for horizontal prints	PPCB-H



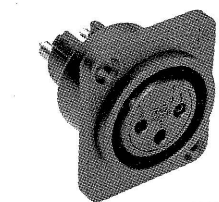
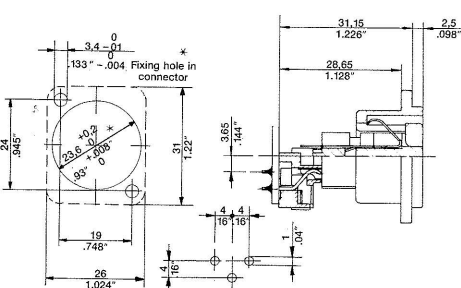
NC3FP



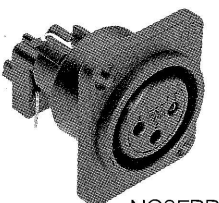
NC3MPP



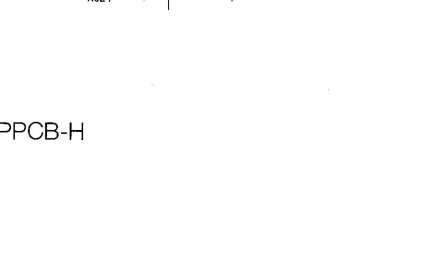
NC3MPP + PPCB-H



NC3FPP



NC3FPP + PPCB-H



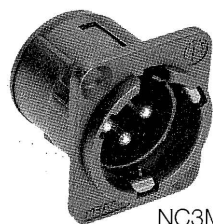
PPCB-H

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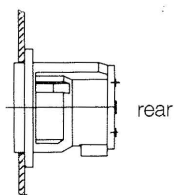


«D» RECEPTACLES FOR DIRECT PC-BOARD MOUNTING

The Neutrik D-series, with its new concepts for modern assembly technology has become an internationally accepted and patented standard. In recognition of this Neutrik granted a patent – license to Switchcraft®.

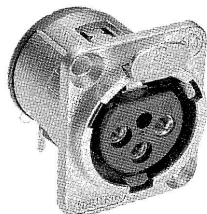


NC3MDHV-BAG

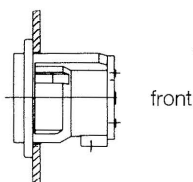


rear

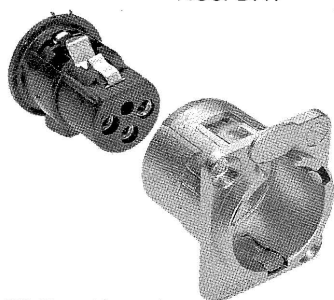
Panel-mounting options



NC3FDHV

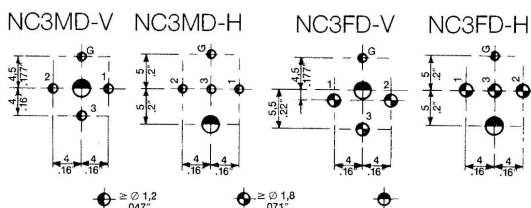
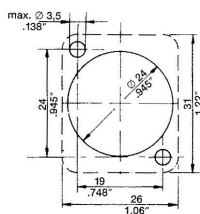


front



PC Board Layout

Panel cut-out



NC3MD-V

NC3MD-H

NC3FD-V

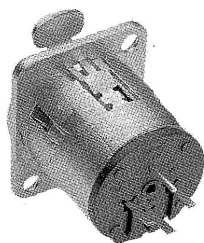
NC3FD-H

- Insert mounts on printed circuit board, shell mounts on panel
- Insert mates with shell from rear, locked from front without any screws
- Same housing for both male and female versions
- Requires less panel space (26×31 mm). Shell can be mounted from the front or rear of the panel
- No screws or fasteners to take out in order to remove PCB. Makes servicing faster, easier and cheaper
- Connectors may be used to retain the PCB in the chassis without strain to the solder pads
- Complete RF shielding via 3-point coaxial ground contact to shell of mated connector
- Vertical or horizontal mounting versions available
- Locking or non-locking versions available
- New improved metal latch

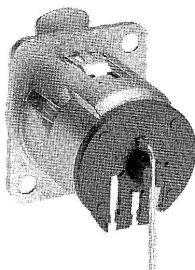
Version with retention-spring instead of locking latch: suffix «-O» for female version

shell	contacts	print horizontal «H»		print vertical «V»	
		male	female	male	female
nickel	silver	NC3MDH	NC3FDH	NC3MDV	NC3FDV
black chrome	gold	NC3MDH-B	NC3FDH-B	NC3MDV-B	NC3FDV-B
black chrome	silver	NC3MDH-BAG	NC3FDH-BAG	NC3MDV-BAG	NC3FDV-BAG

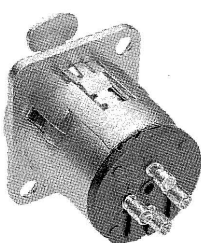
shell	contacts	soldering terminals «L»	
		male	female
nickel	silver	NC3MDL	NC3FDL
black chrome	gold	NC3MDL-B	NC3FDL-B
black chrome	silver	NC3MDL-BAG	NC3FDL-BAG



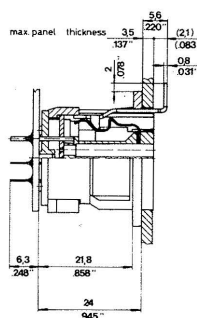
Version «V»



Version «H»



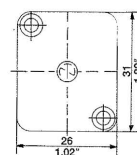
Version «L»



ACCESSORIES:

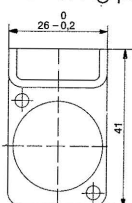
TYPE DBA

Covering plate for unused cut-outs.

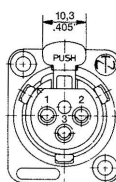


TYPE DSS

Lettering plate



Soldering terminals: conical springs keep wire in position and allow fast and clean soldering



NEUTRIK



PLUGS AND JACKS

PHONE PLUGS

The phone plug originates from the telephone switch board – a very professional descent.

In the Audio industry it somehow degenerated in to a low cost consumer item with invariably very limited quality. Neutrik offers to the Audio world a return to professional standards.

The Neutrik 1/4" phone plug features a shell from die-cast zinc, a one piece, completely machined, sleeve as well as the patented Neutrik chuck-type strain-relief with maximal cable protection. It accepts cables from 2.8–7 mm Ø. (0.1"–0.28"). They are available in 2- or 3-pole versions, in heavy duty right-angle version and also in a «B-gauge»-(BPO316-«longframe»)-configuration. The new 4.4 mm «Bantam» miniature plug features a simple and fast assembling technique without the use of screws (crimping or soldering) and an excellent cable strain relief for cables from 3–5 mm Ø (0.2"). The design of the «B-gauge» as well as the «Bantam» allows durable hard plating of the contact surfaces and guarantees a drastic increase in durability and corrosion resistance.

shell	contacts	1/4"		1/4" «BPO»	4.4 mm TT
		2-poles	3-poles	3-poles	3-poles
nickel	Ni	NP2C	NP3C	---	---
black	Ni	NP2C-BAG	NP3C-B	---	---
black	Optalloy	---	---	NP3TB-B	NP3TT-B
red	Optalloy	---	---	NP3TB-R	NP3TT-R
nickel	Ni	NP2RC	NP3RC	---	---
black	Ni	NP2RC-BAG	NP3RC-BAG	---	---

NP3TT connectors are also available as sets with parts for 100 units:
NP3TT-100: with contacts on strips

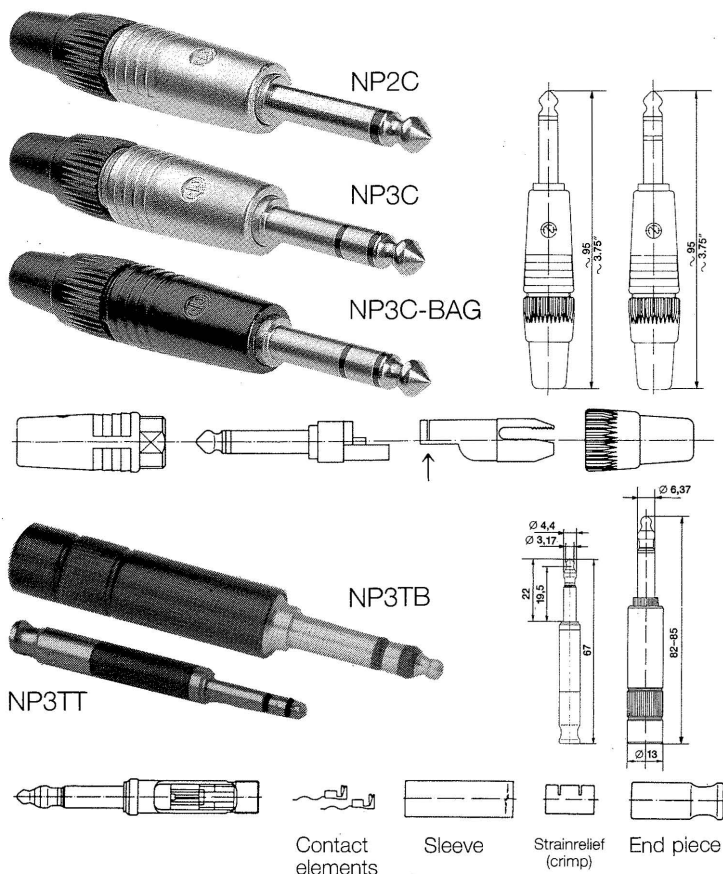
Tools:
CR-TT: semi-automatic crimping machine
HX-TT: crimping tool for HEX- or indent-crimping of strain relief.

NP2C-T10: NP2C with built in 1:10 transformer to link a low impedance microphone to a guitar input.

PHONE JACKS

- The first and only professional latching phone jack
- All three contacts spring loaded and insulated
- Die-cast or polyester shells, compatible with D-series XLR connectors
- The locking cable jack allows for the first time a secure «in-line» connection (extension) of phone plug cables, non detachable by any accident.
- Same cable strain relief as with our X-series for max. cable protection
- Mates with all 1/4" 2 or 3 pole phone plugs according EIA RS-453.

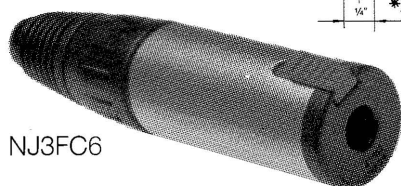
version	housing	contacts
		Cu-Be 3µ Silver
Panel	nickel	NJ3FP6C
Panel	black chrome	NJ3FP6C-BAG
Panel	Polyester	NJ3FP6C-P
Cable	nickel	NJ3FC6C
Cable	black chrome	NJ3FC6C-BAG



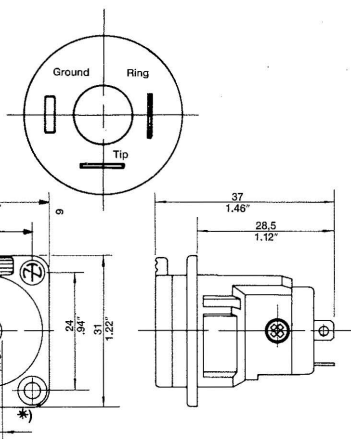
NP2RC



NJ3FP6C-BAG



NJ3FC6

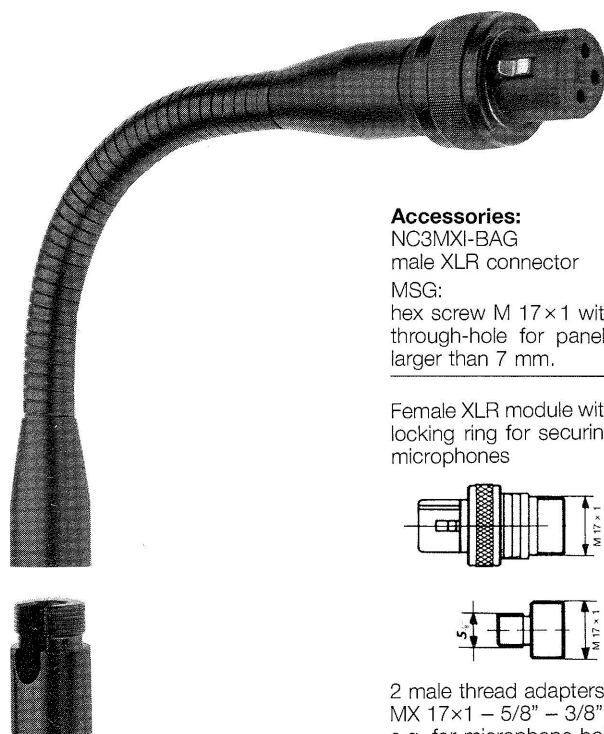


NEUTRIK



• C

GOOSENECKS AND ADAPTERS

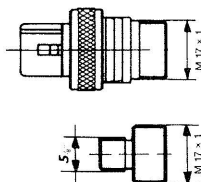


Accessories:

NC3MXI-BAG
male XLR connector

MSG:
hex screw M 17×1 with
through-hole for panels
larger than 7 mm.

Female XLR module with
locking ring for securing
microphones



2 male thread adapters
MX 17×1 – 5/8" – 3/8"
e.g. for microphone hol-
ders

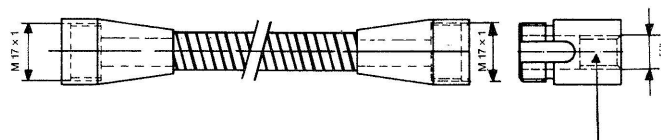
Modular gooseneck sets «GN», «GNS»

- Modular system which allows all conceivable combinations
- Available in three lengths, comes with three adapters
- Stainless steel, non reflective matt black
- No rust, no noise, no fatigue
- A female XLR module with locking ring, tight and theft-proof mounting and securing of microphones

Gooseneck with adapters*) as pictured

Type GNS 18: L = 180 mm Ø = 12 mm (7", .5" DiA)
GNS 36: L = 360 mm Ø = 13 mm (14", .52" DiA)
GNS 50: L = 500 mm Ø = 15 mm (20", .6" DiA)

*) Standard set includes: gooseneck, female XLR-module, 3 thread adapters – as pictured



Thread adapter M 17×1 – 5/8" female with cable outlet, through hole and mounting facility to panels up to 7 mm thickness.

Gooseneck without adapters

Type GN 18: L = 180 mm Ø = 12 mm (7", .5" DiA)
GN 36: L = 360 mm Ø = 13 mm (14", .52" DiA)
GN 50: L = 500 mm Ø = 15 mm (20", .6" DiA)



ADAPTERS AND ACCESSORIES

Neutrik adapters are versatile, pre-assembled problem solvers to inter-lock various connector systems or thread standards.

TYPE	FUNCTION	
	INPUT	OUTPUT
NA3FF	XLR-female	XLR-female
NA3MM	XLR-male	XLR-male
NA3FM	XLR-female	XLR-male
NA3JM	XLR-male	Locking jack
NA2FP	XLR-female	2-pol phone plug ●x
NA3FP	XLR-female	3-pol phone plug ●
NA3FBNC	XLR-female	BNC-receptacle ●x
NA3MBNC	XLR-male	BNC-receptacle ●x
NA2MPMF	XLR-male	Phono-jack („RCA-type“) ●x
NA2FPMM	XLR-female	Phono-plug („RCA-type“) ●x
NAM 2	XLR-male	DIN-jack
NAM 3	XLR-female	DIN-plug (DIN 41524)
NAM 1	M 17 × 1 ext.	5/8" UNS ext.
NAM 4	M 17 × 1 ext.	5/8" UNS int.
NAM 5	3/8" int.	5/8" UNS ext.

● = not pictured

x = wired according IEC 268-12 : pin 2 „signal, pin 1-3 connected

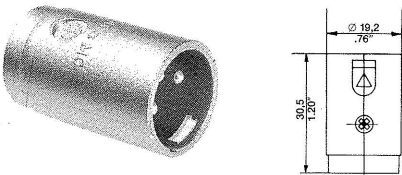
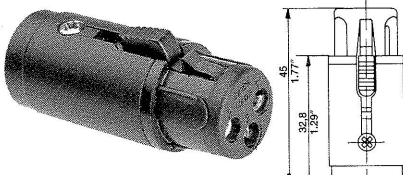
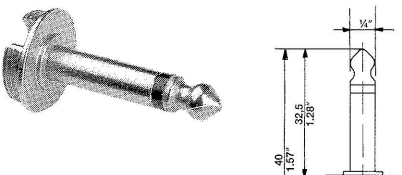
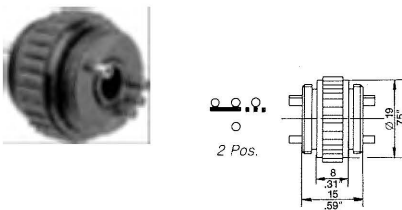
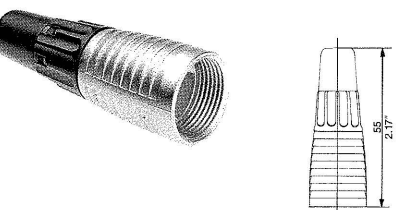
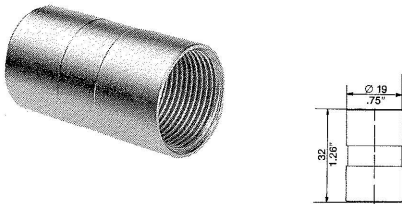
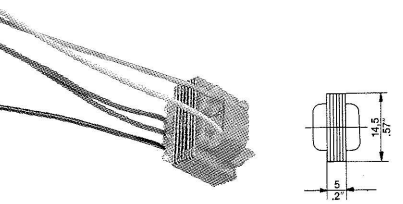
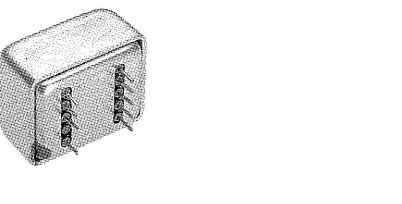


NEUTRIK®



MODULES TRANSFORMERS CABLES

NEUTRIK connector modules let you design new adapters to suit your specific needs. NTE-transformers fit into the VM-module.

 XLR Male module (nickel) XLR Male module (black chrome) NC3MM NC3MMB	 XLR Female module (nickel) XLR Female module (black chrome) NC3FM NC3FMB	 1/4" Phone plug module NP2MM
 Switch module (1xU) SM2	 Cable module (nickel) Cable module (black chrome) CM CMB	 Connecting module Connecting module VM VMB
 Housing module (nickel) Housing module (black chrome) KM KMB	 Audio transformer with free wires NTE	 Miniature studio transformer for print assembly NTM/NTL

NEUTRIK TRANSFORMERS

Top quality audio transformers for multiple applications. Please ask for detailed specifications and design assistance.

TYPE	Colour code	Turns-ratio	Frequency response at 200 Ω source	max. Input level 1 % THD/50 Hz
NTE 1	red	1:1	30-20 K $\pm$ 0,5 dB	600 mV
NTE 4	yellow	1:4	30-20 K $\pm$ 1,0 dB	500 mV
NTE 6	green	1:6	30-20 K $\pm$ 1,0 dB	500 mV
NTE 10/3	orange	1:3:10	30-20 K $\pm$ 1,0 dB	450 mV
NTM 1		1:1	15-25 K $\pm$ 0,5 dB	1,5 V
NTM 4		1:4	15-25 K $\pm$ 0,5 dB	1,5 V
NTL 1		1:1	Depends on circuit:	to + 24 dBu (Line)

PATCH CABLE

highly flexible, PVC or «tinsel wire» with fabric jacket

«Bantam-cable», 2 $\times$ NP3TT		
Type	Length	Cable type
NKTT03	12"	2 $\times$ 0,19, Braided screen 95 %, PVC-jacket
NKTT05	24"	
NKTT1	36"	
NKTT03T	12"	2 $\times$ 0,1 + Screen, tinsel wire Fabric jacket
NKTT1T	36"	

BPO-cable, 2 $\times$ NP3TB		
Type	Length	Cable type
NKTB03	12"	2 $\times$ 0,19, Braided screen 95 %, PVC-jacket
NKTB05	24"	
NKTB1	36"	
NKTB03T	12"	2 $\times$ 0,1 + Screen, tinsel wire Fabric jacket
NKTB1T	36"	

Microphone-, Guitar- and Loudspeaker-cables on application.



RESEARCH, DEVELOPMENT AND PRODUCTION



Neutrik electronic development with the aid of CAD / CAE

The complex circuitry used in our Audiograph 3300 System, can only be developed competitively with the aid of computers at every stage. Our most modern system starts from the components library and finishes with the plotted printed circuit film.



The quality of your Neutrik product is assured in our test laboratory

The Neutrik test laboratory is equipped with the latest equipment and measuring instruments, which enables us to maintain our high standards. An insertion machine, cable pull-bend-machine, shaker, artificial climate cabinet, salt spray chamber, etc., ensure that our products will function perfectly in all conditions.



CAM – Parts production

The turning centre with automatic bar loading, works round the clock. Parts can be changed within 15 minutes.



Fully automated connector assembly

Our Processor controlled assembly robots, have a total capacity of up to 35 000 connector inserts per day. Consistent quality is maintained throughout. One operator can control 5 such machines.

Distributed by:

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