# Accessories

**Content** **Page**

Circular Adapters ..... 140
D Shape Adapters ..... 141
Ordering Information ..... 142
AES / EBU Digital Impedance Transformer Adapters .... 143
Ordering Information ..... 143
DMX Adapters ..... 144
Ordering Information ..... 144
Feedthrough ..... 144
Ordering Information ..... 144
Modules & Audio Transformers ..... 145
Audio Transformer selection Guide ..... 145
Ordering Information ..... 146
Goosenecks ..... 147
Ordering Information ..... 147

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

# Introduction

Various connector standards in the professional and semi-professional audio and video world lead to many interconnection challenges.

Neutrik has made it a rule to serve our customers' needs in all its connector offerings and has therefore produced a variety of problem solvers.

With our adapter series we have a solution for the most known interconnection difficulties and in addition we offer modules for the most common connector types to fulfill more specific needs.

Miniature impedance balancing adapters are the answer to the most common noise and grounding problems and for customized designs we recommend our proven audio transformers in combination with our modules.

Neutrik offers a wide range of audio adapters, transformers, AES / EBU adapters and gooseneck products. From problem solvers to connection quick fixes, Neutrik has the most popular audio connectivity solutions. All Neutrik adapters and connectors are soldered with lead free RoHS compliant solder.

XLR connector

RCA phono socket

Jack with locking latch

BNC socket

## Circular Adapters

NA2FP

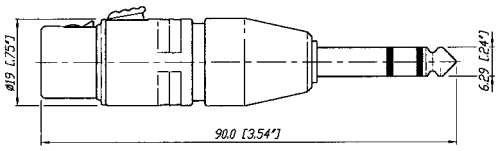
NA2MPMM

NA3MJ

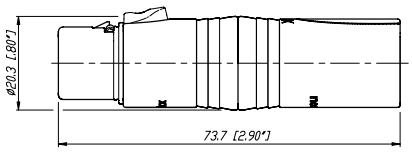
NA4FC-F

- Variety of adapters offered to interface with most connector combinations
- Professional look and compact space saving design
- Rugged diecast shell for best reliability
- Compact design and durability with Neutrik quality

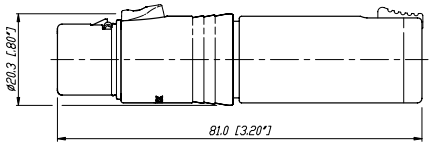
**NA3FP**



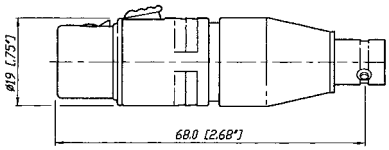

**NA3FM**




**NA3FJ**




**NA2FBNC**




Example drawing. Find more info on www.neutrik.com

Phono socket

speakON NL4MP

3 pole XLR male

Jack with locking latch

## D Shape Adapters

NA2BBNC-D9B

NA2M-D2B-TX

NA4MP-J

NA4MP-MX

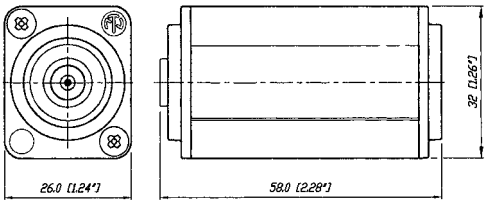
- Problem solvers for various intermating problems for professional and semi-professional applications
- Rugged aluminium extrusion housings for best reliability
- Colour coding on all RCA types

**Miniature transformer balancing adapters NA2*-TX**

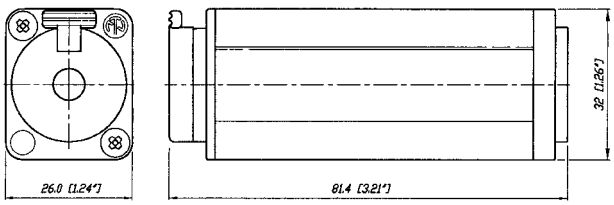
- Audio Transformer 1:1 impedance ratio 200 : 200
- Low cost solution for unbalanced / balanced line conversion and passive DI applications, where no earth or gain switching is required.
- Source / Load impedance 600 / 10 K
  Max. input level @ 50 Hz at 1% THD: -3 dBu

NA2F-D0B-TX

**NA2BBNC-D9B**




**NA4MP-J**




Example drawing. Find more info on www.neutrik.com

## Circular Adapters

| Part No. | Port 1 | Port 2 | Comments |
|---|---|---|---|
| NA2FBNC | 3 pole XLR female | BNC socket | 1) |
| NA2FP | 3 pole XLR female | TS 2),1/4" plug | 1) |
| NA2FPMF | 3 pole XLR female | RCA / phono socket | 1) |
| NA2FPMM | 3 pole XLR female | RCA / phono plug | 1) |
| NA2MBNC | 3 pole XLR male | BNC socket | 1) |
| NA2MP | 3 pole XLR male | TS 2),1/4" plug | 1) |
| NA2MPMF | 3 pole XLR male | RCA / phono socket | 1) |
| NA2MPMM | 3 pole XLR male | RCA / phono plug | 1) |
| NA3FF | 3 pole XLR female | 3 pole XLR female | gender conversion adapter |
| NA3FF-B | 3 pole XLR female | 3 pole XLR female | gender conversion, black plating |
| NA3FJ | 3 pole XLR female | TRS 2),1/4" jack | locking jack |
| NA3FM | 3 pole XLR female | 3 pole XLR male | extention adapter |
| NA3FMX | 3 pole XLR female | 3 pole XLR male | contacts 2 - 3 inverted |
| NA3FP | 3 pole XLR female | TRS 2), 1/4" plug | |
| NA3JJ | stereo 1/4" jack | TRS 2), 1/4" jack | extension adapter, locking jack |
| NA3MJ | 3 pole XLR male | TRS 2), 1/4" jack | locking jack |
| NA3MM | 3 pole XLR male | 3 pole XLR male | gender conversion adapter |
| NA3MM-B | 3 pole XLR male | 3 pole XLR male | gender conversion, black plating |
| NA3MP | 3 pole XLR male | TRS 2),1/4" plug | |
| NA4FC-F | speakON NL4FC | 3 pole XLR female | speaker adapter 3) |
| NA4FC-M | speakON NL4FC | 3 pole XLR male | speaker adapter 3) |
| NA4LJX | speakON NL4FX | TS 2), 1/4" jack | speaker adapter 3) |
| NA4MP-F | speakON NL4MP | 3 pole XLR female | speaker adapter 3) |
| NA4MP-J | speakON NL4MP | TS 2), 1/4" jack | speaker adapter 3) |
| NA4MP-M | speakON NL4MP | 3 pole XLR male | speaker adapter 3) |
| NA4MP-M-X | speakON NL4MP | speakON NL4MP | speaker adapter 1+ / 1- inverted 3) |
| NA5FF-B | 5 pole XLR female | 5 pole XLR female | gender conversion adapter, black plating |
| NA5MM-B | 5 pole XLR male | 5 pole XLR male | gender conversion adapter, black plating |

## D Shape Adapters

| | | | |
|---|---|---|---|
| NA2BBNC-D4B | BNC socket | RCA / phono socket | colour coded yellow |
| NA2BBNC-D9B | BNC socket | RCA / phono socket | colour coded white |
| NA2F-D0B-TX | 3 pole XLR female | RCA / phono socket | colour coded black 4) |
| NA2F-D2B-TX | 3 pole XLR female | RCA / phono socket | colour coded red 4) |
| NA2F-J-TX | 3 pole XLR female | 1/4" jack | ground lifted 4) |
| NA2M-D0B-TX | 3 pole XLR male | RCA / phono socket | colour coded black 4) |
| NA2M-D2B-TX | 3 pole XLR male | RCA / phono socket | colour coded red 4) |
| NA2M-J-TX | 3 pole XLR male | 1/4" jack | ground lifted 4) |
| NE8FF | etherCON | etherCON | RJ45 coupler |
| NL4MMX | 4 pole speakON | 4 pole speakON | lockable coupler |
| NL8MM | 8 pole speakON | 8 pole speakON | lockable coupler |
| NAC3MM-1 | 3 pole powerCON | 3 pole powerCON | lockable coupler |

1): Wired according to IEC 268-12: pin 2 = signal, pin 1 and 3: connected to ground
2): TRS-Tip, Ring, Sleeve contact (stereo); TS-Tip, Sleeve contact (mono)
3): Detailed wiring info on www.neutrik.com
4): Unbalanced / balanced line conversion, 1:1 transformer 200 Ω : 200 Ω

3 pole XLR female receptacle

3 pole cable connector

BNC chassis

## AES / EBU Digital Impedance Transformer Adapters

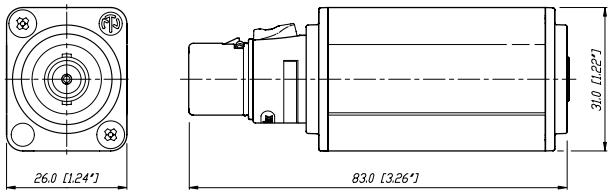
NADITBNC-F

NADITBNC-FX

NADITBNC-MX

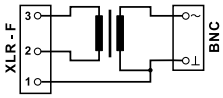
- Cost effective exceptional impedance matching adapters
- Allow long cable runs for digital audio signals via low attenuation coax lines
- Match balanced (110 Ω) to coaxial lines (75 Ω)
- Pre-wired in black anodized aluminum extrusions for increased durability
- AES/EBU adapters available with either 3 pin male or female XLR cable ends or receptacles
- Simple use, passive units

**NADITBNC-FX**

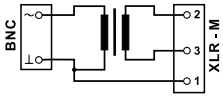



## Technical Data

| | |
|---|---|
| Maximum voltage / Max. power: | 5 Vp-p / 250 mW |
| Frequency band: | 0.1 MHz to 6 MHz |
| Insertion loss: | < 0.3 dB @ 0.1 MHz to 10 MHz |
| VSWR / Return loss: | < 1.1 / > 26.4 dB |




NADITBNC-F




NADITBNC-M

## Ordering Information

| Part No. | Port 1 | Port 2 | Comments |
|---|---|---|---|
| | Input | Output | |
| NADITBNC-F | 3 pole XLR female chassis | female BNC chassis | 110 Ω XLR input and 75 Ω BNC output |
| NADITBNC-M | 3 pole XLR male chassis | female BNC chassis | 75 Ω BNC input and 110 Ω XLR output |
| NADITBNC-FX | 3 pole XLR female cable con. | female BNC chassis | 110 Ω XLR input and 75 Ω BNC output |
| NADITBNC-MX | 3 pole XLR male cable con. | female BNC chassis | 75 Ω BNC input and 110 Ω XLR output |

5 pole male connector

5 pole female connector

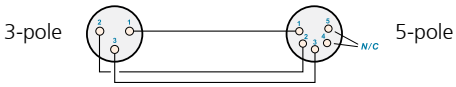
All metal housing

## DMX Adapters

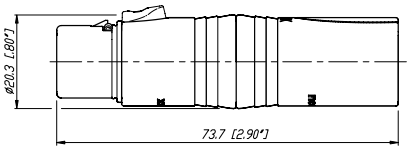
NA3F5M

NA3F5M

- Compact XLR 3 to 5 pole adapters for lighting (DMX) applications
- Solve interconnection problems of the old (3-pole) and new (5 pole) DMX standard
- Enable usage of standard 3 pole microphone cable for DMX applications
- Based on the worldwide accepted standard XLR connectors
- Reliable and rugged diecast shell




**NA3F5M**



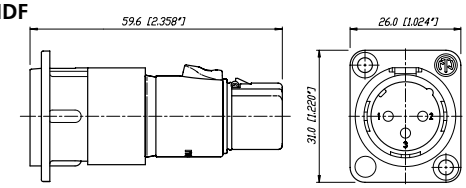

## Feedthrough

NA3FDM

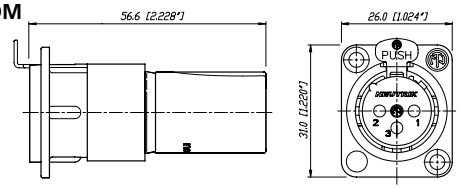
NA3MDF

- 3 pole XLR feedthrough adapter
- D-flange chassis mount
- Male to female and vice versa
- Utilizes XX-components

**NA3MDF**




**NA3FDM**




## Ordering Information DMX Adapter

| Part No. | Port 1 | Port 2 | Comments |
|---|---|---|---|
| NA3F5M | 3 pole XLR female | 5 pole XLR male | for DMX lighting applications |
| NA3M5F | 3 pole XLR male | 5 pole XLR female | for DMX lighting applications |

## Ordering Information Feedthrough

| | | | |
|---|---|---|---|
| NA3FDM | 3 pole XLR female | 3 pole XLR male | |
| NA3MDF | 3 pole XLR male | 3 pole XLR female | |

3 pole plug

SM2/2 switch

VM housing

## Modules & Audio Transformers

NM3FXI

NM3P

KMX

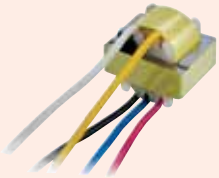
SM2/2

NM3FD-B

- Multifunctional modules allow to design customized adapters to suit specific needs
- Based on the X and D Series connector system
- NTE transformers and switch can be built in
- Professional look, rugged diecast shell

**Audio Transformer**

- Professional audio transformers for multiple applications, as e.g. microphone or line inputs
- Very low distortion, excellent frequency response
- Cost effective cable version for free wiring
- Fully permalloy-shielded studio versions


NTE10-3

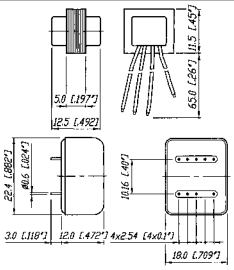
NTL1

## Audio Transformer selection Guide

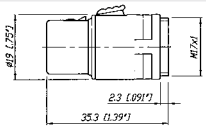
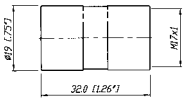
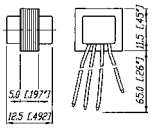
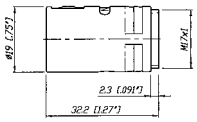
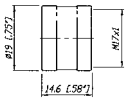
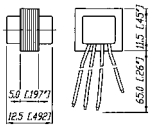
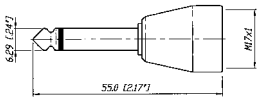
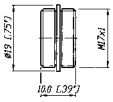
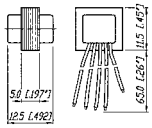
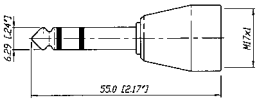
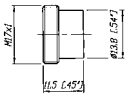
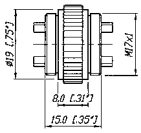
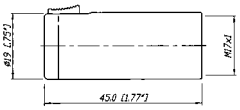
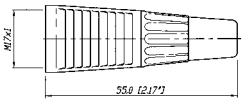
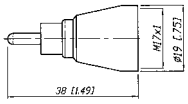
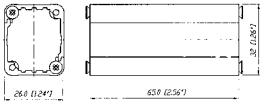
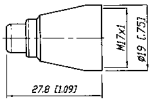
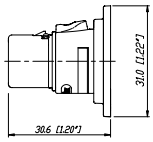
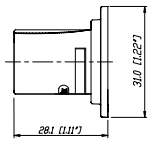
| Part No. | Turns Ratio (prim : sec) | Impedance ratio | Source / load impedance in Ω | Max. Input level* @ 50 Hz, 1% THD [dBu] | Applications |
|---|---|---|---|---|---|
| NTE1 | 1 : 1 | 200 : 200 | 200 / 2k, (600 / 10k) | -3 | General purpose, splitting, XLR inline |
| NTE4 | 1 : 4 | 200 : 3.2k | 200 / 10 K | -7 | Mic input step-up |
| NTE10/3 | 1 : 3 | 200 : 1.8k | 200 / 10 K | -7 | General purpose mic input step-up |
| | 1 : 10 | 200 : 20k | 200 / 50 K | -6 | |
| NTL1 | 1 : 1 | 10k : 10k | 600 / 10k | +19 | Line input |
| NTM1 | 1 : 1 | 200 : 200 | 200 / 2k | +7 | Mic input, splitting |
| NTM4 | 1 : 4 | 200 : 3.2k | 200 / 10k | +9 | Mic input step-up |

* : measured with typical source / load impedances

Wiring: NTE*: free wires, NTL / NTM*... PCB mount, shielded; Find detailed specifications on www.neutrik.com

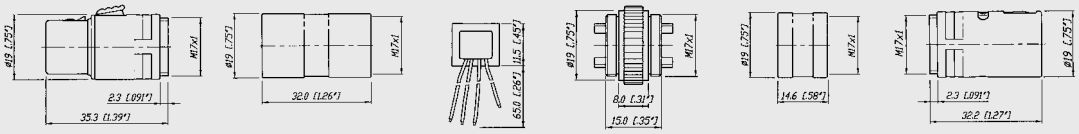


## Module Selection Guide

| Connector module | | Coupler / housing | | Transformer / switch | |
|---|---|---|---|---|---|
| NM3FXI<br>XLR female<br>M17x1 outside |  | KM<br>M 17x1 inside |  | NTE1<br>1:1 |  |
| NM3MXI<br>XLR male<br>M17x1 outside |  | KMX<br>M 17x1 inside |  | NTE4<br>1:4 |  |
| NM2P<br>mono 1/4" plug<br>M17x1 inside |  | VM<br>M 17x1 outside |  | NTE10/3<br>1:3:10 |  |
| NM3P<br>stereo 1/4" plug<br>M17x1 inside |  | VMX<br>M 17x1 outside |  | SM2/2<br>2x2 switch<br>M17x1 outside |  |
| NM3J<br>stereo 1/4" jack<br>M17x1 inside |  | CM<br>cable outlet<br>M 17x1 inside |  | | |
| NMPMM<br>RCA male<br>M17x1 inside |  | NA-Housing[1]<br>black plated<br>screws included |  | | |
| NMPMF<br>RCA female<br>M17x1 inside |  | | | | |
| NM3FD-B<br>black plated<br>D-Shape |  | | | | |
| NM3MD-B<br>black plated<br>D-Shape |  | | | | |

[1] ... Combinations possible with all D Shape connectors like e.g. NC3FD-L-1, NF2D, NBB75DSI, etc.

**Example:**



NM3FXI KM NTE1 SM2/2 KMX NM3MXI

3 pole XLR with securing ring

Flexible spiral

Integrated cable outlet

## Goosenecks

GNS18

GN36

GNS50

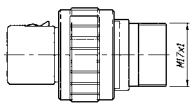
- For flexible and secure mounting of microphones, lamps etc.
- Versatile, modular system allows various combinations
- Durable stainless steel spiral, no rust, no noise, non-reflective black finish
- Theft proof microphone connection on GNS version (securing ring and fixing screw)
- Strong, flexible and noiseless goosenecks available in three lengths

## Ordering Information

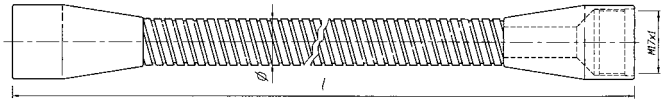
| Part No. | Description | |
|---|---|---|
| GN18 | M17 x 1 inside thread at both ends | (∅ 12 mm, 230 mm length) |
| GN36 | M17 x 1 inside thread at both ends | (∅ 13 mm, 360 mm length) |
| GN50 | M17 x 1 inside thread at both ends | (∅ 15 mm, 500 mm length) |
| Gosseneck sets: | | |
| GNS18 | Gooseneck set GN18, NC3FX-Spec., cable outlet, NAM5 adapter, M17 x 1 bolt thread | |
| GNS36 | Gooseneck set GN16, NC3FX-Spec., cable outlet, NAM5 adapter, M17 x 1 bolt thread | |
| GNS50 | Gooseneck set GN50, NC3FX-Spec., cable outlet, NAM5 adapter, M17 x 1 bolt thread | |
| Accessories: | | |
| NAM4 | M17 x 1 outside thread, 5/8" 27 UNS inside thread [1] | |
| NAM5 | 3/8" inside thread, 5/8" 27 UNS outside thread [1] | |
| GF1 | Mounting kit: Flange ∅ 63.5 mm including mounting bolt M17x1, 13 mm length [1] | |
| MSG | Mounting bolt M17 x 1, 30 mm length [1] | |

[1] : Find detailed specifications on www.neutrik.com

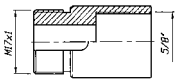
**GNS Set consisting of:**



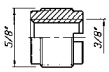

NC3FX-Spec



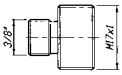

GN




Cable outlet




NAM5




M17x1 bolt