

## Introduction

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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.

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# Adapter



XLR connector



RCA phono socket



Jack with locking latch



BNC socket

## Circular Adapters



NA2FP



NA2MPMM



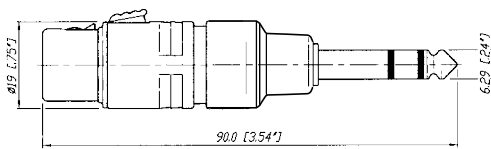
NA3MJ



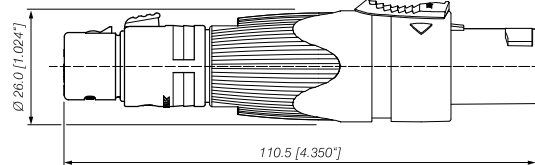
NA4FX-F

- 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

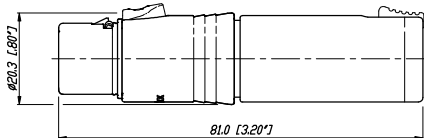
NA3FP



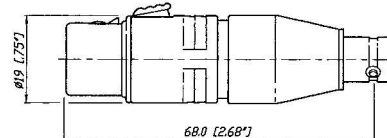
NA4FX-F



NA3FJ



NA2FBNC



Example drawing. Find more info on [www.neutrik.com](http://www.neutrik.com)

# Adapter



1/4" mono jack



Ergonomic latch design



Rugged diecast shell

## Circular Adapters



NA4LJX



NA3FM



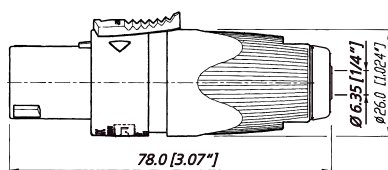
NA3MM



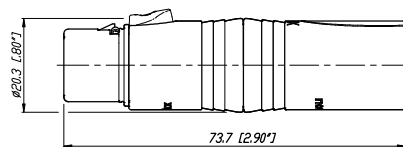
NA3FF-B

- Neutrik speakON NL4FC with 1/4" mono jack (Wiring: +1 to TIP and -1 to SLEEVE)
- Versatile, pre-wired and ready to use adapters to reliably interlock various connector systems
- Based on the XX Series

NA4LJX



NA3FM



# Adapter



Phono socket



speakON NL4MP



Jack with locking latch

## D Shape Adapters



NA2BBNC-D9B



NA2M-D2B-TX



NA4MP-J



NA4MP-M-X

- 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

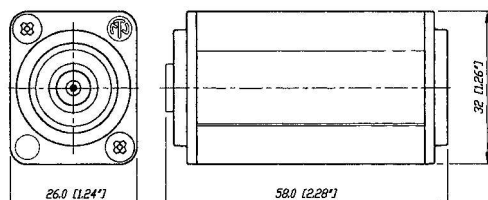
### Miniature transformer balancing adapters NA2\*-TX

- 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

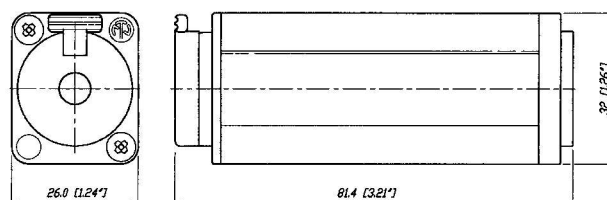


NA2F-D0B-TX

#### NA2BBNC-D9B



#### NA4MP-J



Example drawing. Find more info on [www.neutrik.com](http://www.neutrik.com)

# Adapter



3 pole XLR male



Locking release tab



powerCON



speakON

## D Shape Adapters



NA2M-J-TX



NA2F-D2D-TX



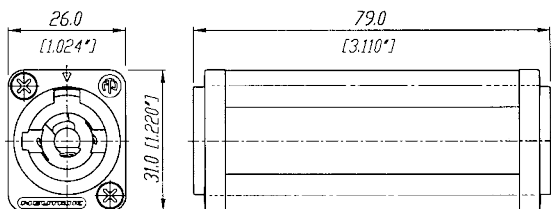
NAC3MM-1



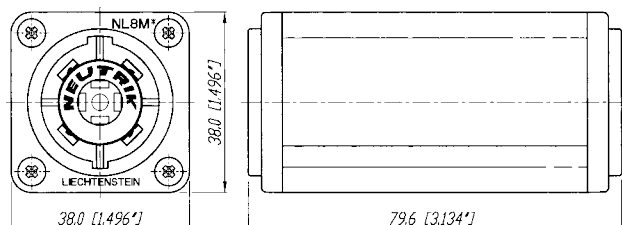
NL8MM

- Miniature transformer balancing adapter
- powerCON NAC3MM-1:  
NAC3MPA-1 (power in) - powerCON NAC3MPB-1 (power out), coupler for linking cables
- 8 pole speakON feedthrough adapter for cable extensions

**NAC3MM-1**



**NL8MM**



# Ordering Information

## Circular Adapters

Part No.	Port 1	Port 2	Comments
NA2FBNC	3 pole XLR female	BNC socket	1)
NA2FP	3 pole XLR female	TS <sup>2)</sup> , 1/4" plug	1)
NA2FPMF	3 pole XLR female	RCA / phono socket	1)
NA2FPMF	3 pole XLR female	RCA / phono plug	1)
NA2MBNC	3 pole XLR male	BNC socket	1)
NA2MP	3 pole XLR male	TS <sup>2)</sup> , 1/4" plug	1)
NA2MPMF	3 pole XLR male	RCA / phono socket	1)
NA2MPMF	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 <sup>2)</sup> , 1/4" jack	locking jack
NA3FM	3 pole XLR female	3 pole XLR male	extension adapter
NA3FMX	3 pole XLR female	3 pole XLR male	contacts 2 - 3 inverted
NA3FP	3 pole XLR female	TRS <sup>2)</sup> , 1/4" plug	
NA2JJ	mono 1/4" jack	TS <sup>2)</sup> , 1/4" jack	extension adapter
NA3JJ	stereo 1/4" jack	TRS <sup>2)</sup> , 1/4" jack	extension adapter, locking jack
NA3MJ	3 pole XLR male	TRS <sup>2)</sup> , 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 <sup>2)</sup> , 1/4" plug	
NA5FF	5 pole XLR female	5 pole XLR female	gender conversion adapter
NA5FF-B	5 pole XLR female	5 pole XLR female	gender conversion adapter, black plating
NA5MM	5 pole XLR male	5 pole XLR male	gender conversion adapter
NA5MM-B	5 pole XLR male	5 pole XLR male	gender conversion adapter, black plating
NA4FX-F	speaKON NL4FX	3 pole XLR female	speaker adapter <sup>3)</sup>
NA4FX-M	speaKON NL4FX	3 pole XLR male	speaker adapter <sup>3)</sup>
NA4LJX	speaKON NL4FX	TS <sup>2)</sup> , 1/4" jack	speaker adapter <sup>3)</sup>
NL4MMX	4 pole speaKON	4 pole speaKON	lockable coupler <sup>5)</sup>

## 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 <sup>4)</sup>
NA2F-D2B-TX	3 pole XLR female	RCA / phono socket	colour coded red <sup>4)</sup>
NA2F-J-TX	3 pole XLR female	1/4" jack	ground lifted <sup>4)</sup>
NA2M-D0B-TX	3 pole XLR male	RCA / phono socket	colour coded black <sup>4)</sup>
NA2M-D2B-TX	3 pole XLR male	RCA / phono socket	colour coded red <sup>4)</sup>
NA2M-J-TX	3 pole XLR male	1/4" jack	ground lifted <sup>4)</sup>
NE8FF etherCON	etherCON	RJ45 coupler	
NL8MM	8 pole speaKON	8 pole speaKON	lockable coupler
NAC3MM-1	3 pole powerCON	3 pole powerCON	lockable coupler
NA4MP-F	speaKON NL4MP	3 pole XLR female	speaker adapter <sup>3)</sup>
NA4MP-J	speaKON NL4MP	TS <sup>2)</sup> , 1/4" jack	speaker adapter <sup>3)</sup>
NA4MP-M	speaKON NL4MP	3 pole XLR male	speaker adapter <sup>3)</sup>
NA4MP-M-X	speaKON NL4MP	speaKON NL4MP	speaker adapter 1+ / 1- inverted <sup>3)</sup>

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](http://www.neutrik.com)

4): Unbalanced / balanced line conversion, 1:1 transformer 200 Ω : 200 Ω

5): speaKON is NOT to be used as an AC mains or power supply connector!



# Adapter



3 pole XLR female receptacle



3 pole cable connector



BNC chassis

## AES / EBU Digital Impedance Transformer Adapters



NADITBNC-F



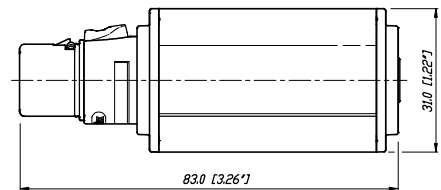
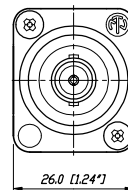
NADITBNC-FX



NADITBNC-MX

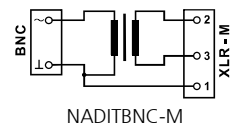
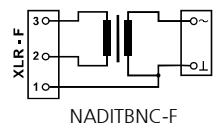
- Cost effective exceptional impedance matching adapters
- Allow long cable runs for digital audio signals via low attenuation coax lines
- Match balanced ( $110\ \Omega$ ) to coaxial lines ( $75\ \Omega$ )
- Pre-wired in black anodized aluminum extrusions for increased durability
- AES/EBU adapters 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



### Ordering Information

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

# Adapter



5 pole male  
connector



5 pole female  
connector

## DMX Adapters



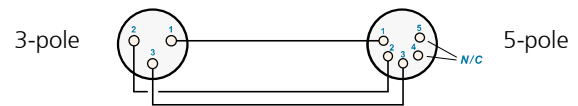
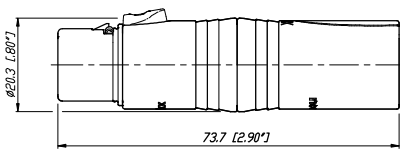
NA3F5M



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



## Ordering Information

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



# Adapter



All metal housing

## Feedthrough



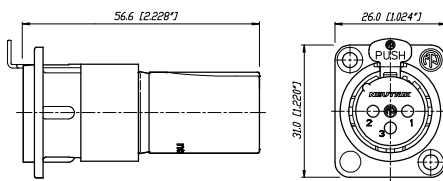
NA3FDM



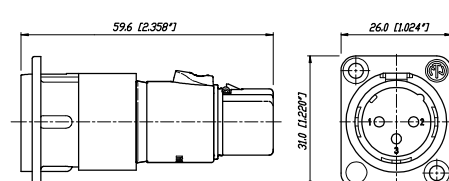
NA3MDF

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

NA3FDM



NA3MDF



## Ordering Information

NA3FDM	3 pole XLR female	3 pole XLR male
NA3MDF	3 pole XLR male	3 pole XLR female

# Adapter



Rugged aluminium extrusion housing



Latch lock system



Rugged diecast shell



IP65 Protected in mated condition

## etherCON® Feedthrough & CAT6A Adapter



NE8FF

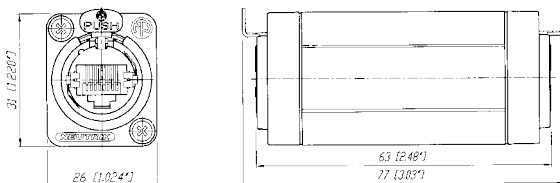


NE8FFX6-W

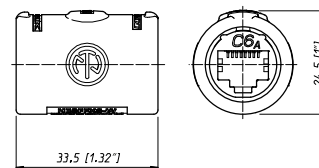
- Accommodates NE8MC\* or any standard RJ45 plug
- NE8FF coupler (adapter) for cable to cable mating – use with NE8MC carriers or any standard RJ45 plug
- Approved latch lock system

- Ruggedized coupler with CAT6<sub>A</sub> component compliance according to ISO/IEC 11801 and TIA/EIA 568-C.2
- IP65 protected when mated with NE8MX6\*
- Accommodates standard RJ45 plugs
- Revolutionary small form factor
- The adapter offers the million fold proven robust latch lock system
- Problem solver for various intermating problems for professional and semi-professional applications

NE8FF



NE8FFX6-W



## Ordering Information

NE8FF	etherCON feedthrough coupler for cable to cable extensions, black plating
NE8FFX6-W	etherCON CAT6A feedthrough coupler for cable extensions, rubber sealing protection, IP65

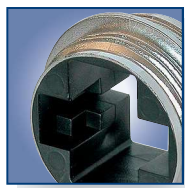
# Modules & Audio Transformer



3 pole plug



SM2/2 switch



VM housing

## Modules & Audio Transformers



NM3FXI



NM3P



KMX



SM2/2

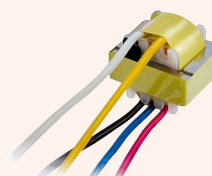


NM5FD-B

- 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



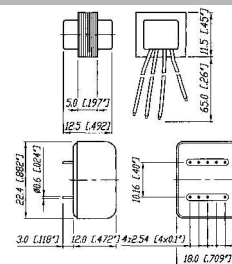
NTL1

## Audio Transformer selection Guide

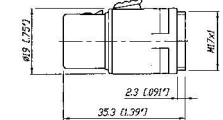
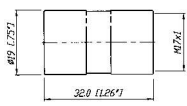
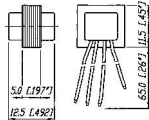
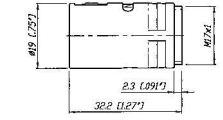
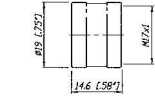
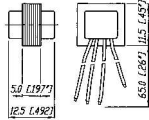
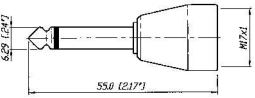
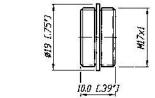
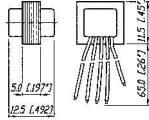
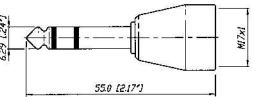
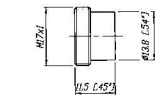
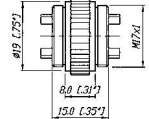
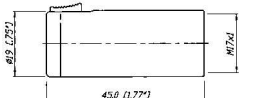
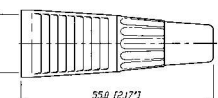
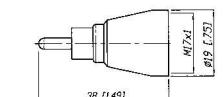
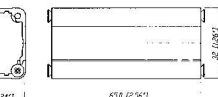
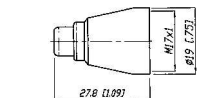
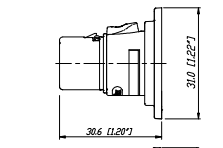
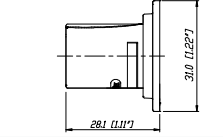
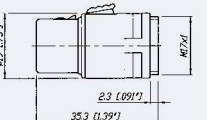

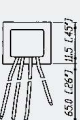
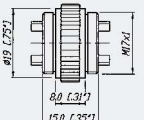
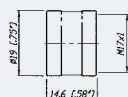
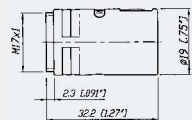
Part No.	Turns Ratio (prim : sec)	Impedance ratio	Source / load impedance in $\Omega$	Max. Input level* @ 50 Hz, 1% THD [dBu]	Applications
NTE1	1 : 1	200 : 200	200 / 2k, (600 / 10k)	-3	General purpose, splitting, XLR inline
NTE4	1 : 4	200 : 3.2k	200 / 10 K	-7	Mic input step-up
NTE10/3	1 : 3	200 : 1.8k	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](http://www.neutrik.com)



## Module Selection Guide

Connector module		Coupler / housing		Transformer / switch	
NM3FXI XLR female M17x1 outside		KM M 17x1 inside		NTE1 1:1	
NM3MXI XLR male M17x1 outside		KMX M 17x1 inside		NTE4 1:4	
NM2P mono 1/4" plug M17x1 inside		VM M 17x1 outside		NTE10/3 1:3:10	
NM3P stereo 1/4" plug M17x1 inside		VMX M 17x1 outside		SM2/2 2x2 switch M17x1 outside	
NM3J stereo 1/4" jack M17x1 inside		CM cable outlet M 17x1 inside			
NMPMM RCA male M17x1 inside		NA-Housing <sup>1)</sup> black plated screws included			
NMPMF RCA female M17x1 inside					
NM3FD-B or NM5FD-B black plated D-Shape					
NM3MD-B black plated D-Shape					
					
					
					
	NM3FXI	KM	NTE1	SM2/2	KMX
					NM3MXI

<sup>1)</sup> ... Combinations possible with all D Shape connectors like e.g. NC3FD-L-1, NF2D, NBB75DSI, etc.

### Example:

