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THE  
ORIGINAL**

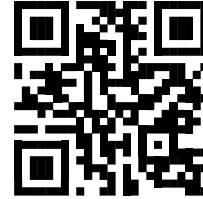
# XLR Connectors



**NEUTRIK®**

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## XLR Connectors





## Introduction

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Neutrik XLR connectors are the most well-known series of products manufactured by Neutrik, and have provided the professional audio industry a simple, yet striking, concept in connector features. We introduced our first XLR product 40 years ago. Today it is the accepted standard worldwide.

XLR connectors are part of almost every aspect of professional audio; as a microphone connector, in lighting systems, and found in almost any piece of sound equipment in the entertainment industry. The outstanding success of our XLR products is Neutrik's blend of innovation with the highest quality performance.

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# XLR Cable Connectors



Ergonomic latch design



White painted housing



Rubber sealing protection



IP65 in mated condition



## XX Series



NC3FXX



NC6MXX-B

## XLR TOP Series



NC3FX-TOP

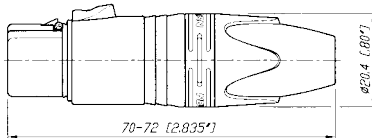


NC3MX-TOP

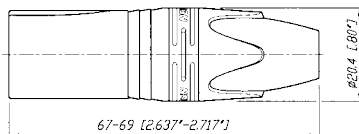
- The next generation of the worldwide accepted standard
- Unique cage type female contact – increases conductivity
- Female contact with "solder stop" for ease of soldering
- Male connector without locking "window" – more robust housing, increases durability
- Improved chuck type strain relief - increases retention force and makes assembly easier and faster
- New ground contact – excellent contact integrity between chassis and cable connector
- Customized branding using translucent ring
- Sleek and ergonomic design – valuable and handy
- Internal thread on shell is well protected against any damage

- Heavy-duty sealed XLR connector range
- 3 and 5 pin cable connector
- IP65 rating and certified outdoor protection to UL 50E (in combination with a TOP range counterpart)
- Uses high impact UV resistant materials per UL
- Gold plated contacts
- Maintains sealing when in use and when disconnected

NC\*FXX

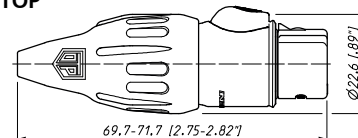


NC\*MXX

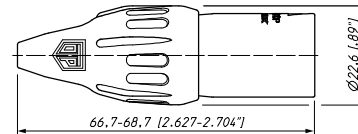


\*: 3 - 7 contacts

NC\*FX-TOP



NC\*MX-TOP



\*: 3 & 5 contacts





Right angle male connector



High temperature resistant insulator

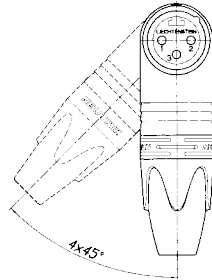


Velour chromium housing

## RX Series



NC3FRX-BAG



Outlet position

## XX-HE Series



NC3FXX-HE

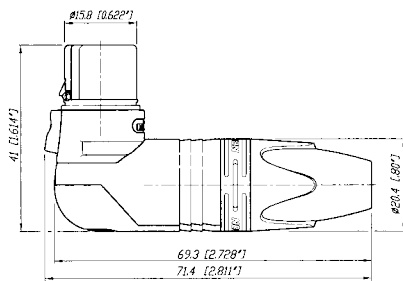


NC3MXX-HE

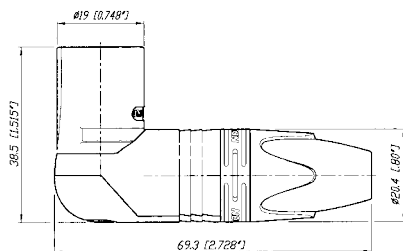
- Right angle version of the XX Series – only 20 mm wide
- Extra slim right-angle connector
- Neutrik chuck type strain relief
- 5 selectable cable outlet positions on female & 7 position on male connectors

- Exclusive "High End" version of standard XX Series
- Premium velour chromium plating provides soft satin finish
- Extra high temperature resistant insulator material rated to 280 °C (536 °F)
- Machined female contacts standard
- Insert is dark grey to distinguish it from standard XX-Series insulators
- Flammability UL 94V-0

### NC\*FRX

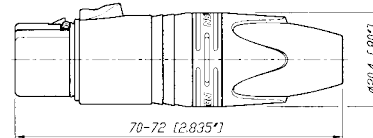


### NC\*MRX

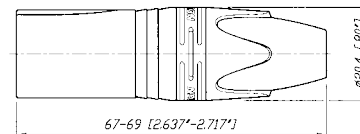


\*: 3 - 7 contacts

### NC3FXX-HE



### NC3MXX-HE





Large cable outlet



Ergonomic latch design

## XX-14 Series



NC3FXX-14



NC3MXX-14-B

## XX Crimp Series



NC3FXX-HA-BAG

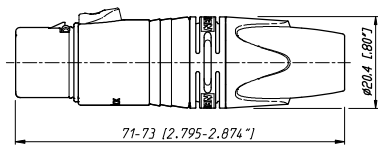


NC3MXX-HA

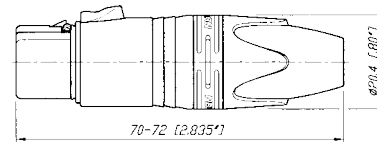
- Special version of the XX Series XLR cable connector for large cable diameters
- Incorporates all the features of the XX product series
- Rear boot features large opening for use with cable O.D. 8.0 – 10.0 mm
- Bulk packed; must be ordered in multiples of 100

- 3 pin XX Series with crimp contacts
- Accommodates wire size AWG 24 - 22 or 0.22 – 0.34 mm<sup>2</sup>
- Absolute leadfree and solderless connection:
  - RoHs compliant
  - health and eco-friendly
- Fast and easy assembly
- Gas-tight connection offers constant contact resistance
- Ideal solution for field and on-site termination

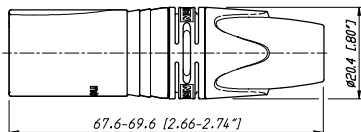
NC3FXX-14



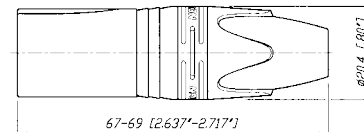
NC3FXX-HA



NC3MXX-14



NC3MXX-HA





CRYSTALLIZED™ – Swarovski Elements

Circumferential ground shield contact

## crystalCON

## EMC-XLR Series



NC3FXX-B-CRYSTAL



NC3MXX-B-CRYSTAL



NC3FXX-EMC

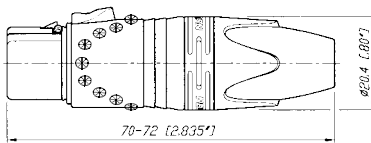


NC3MXX-EMC

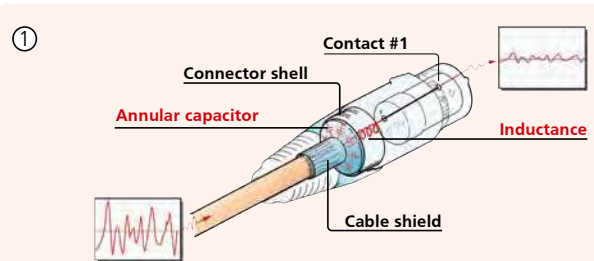
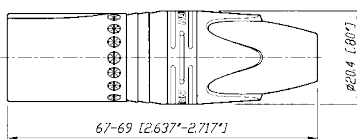
- 3 pole XLR XX-Series embellished with CRYSTALLIZED™ – Swarovski Elements
- Exclusively with gold plated contacts, and black chrome housing
- Fancy, noble, valuable, attractive package – an eye-catcher
- With all benefits of the XLR XX-Series

- 3 pole male / female XLR cable connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact on female connector ensures best possible shielding and chassis contact
- Avoid ground loops as there is no LF-shield connection to ground
- Patented

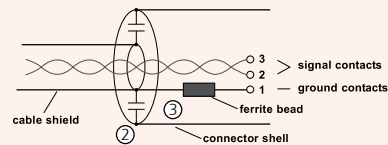
NC3FXX-B-CRYSTAL



NC3MXX-B-CRYSTAL



- ① Design guarantees a continuous RF-shield connection but avoids ground loops (no LF-shield connection)
- ② Circular capacitor enables low-inductive shield connection to connector housing
- ③ Cable shield - PIN 1 connection includes EMI suppression bead (blocks high frequencies)





convertCON position male – female



Female locking



Male metal locking window



## convertCON



NC3FM-C-B

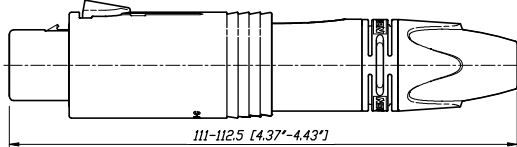
NC3FM-C

- World's first unisex XLR cable connector
- 3 pole male and female cable connector in one housing
- Easy selectable gender – converted by sliding housing back and forth
- Substitutes adapters, ideal as an emergency kit
- Exclusively with gold plated contacts
- With all benefits of the XLR XX-Series

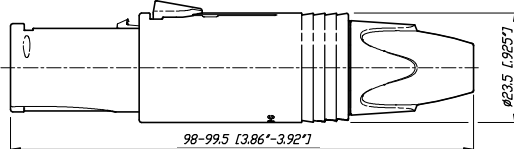


Convert  
**male – female**  
and vice versa

NC3FM-C: Position female



NC3FM-C: Position male



## X Series



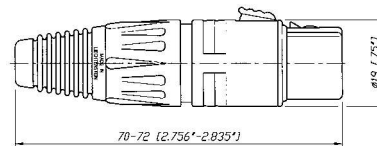
NC3FX



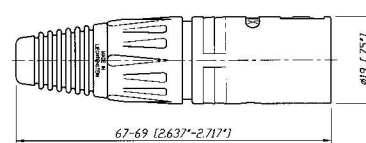
NC3MX + BSX-5

- The worldwide XLR connector standard
- Available in 3 – 7 pin configuration including 6 pin Switchcraft® configuration
- Assembly is quick and easy – no screws or special tools required
- Unique Neutrik chuck type strain relief
- Female shell features rubber ring for secure mating to male XLR or microphone
- Sleek profile and compact design
- Rugged diecast shell
- UL recognized components

NC\*FX



NC\*MX



\*: 3 - 7 contacts





Rubber sealing protection



Metal bushing



Coding ring

## X-HD Series

## XCC Series



NC5FX-HD



NC4MX-HD

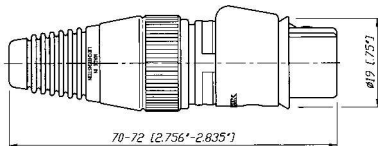


NC3FXCC

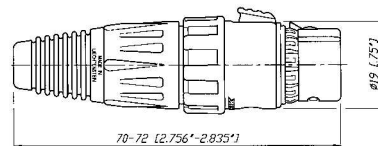
- "Heavy duty" cable connectors for outdoor use
- All metal design, male stainless steel
- NC\*FX-HD mates with NC\*MPR-HD chassis connector and NC\*MX-HD
- Dust and water resistant according IP 65 in mated condition
- Available in 3 – 5 pin configuration
- Metal bushing including O-ring

- Coaxial ground spring and hex crimp ferrule at cable entrance allow continuous (360°) ground connection to shell which is essential when transmitting low level audio signals
- Includes Zebra coding ring to indicate digital AES signals
- Ground contact uses 6.5 mm (.255") size "E" hex crimp (IEC 60803). Use part # HX-R-BNC with DIE-R-BNC-PT

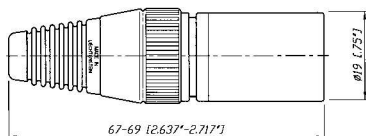
NC\*FX-HD



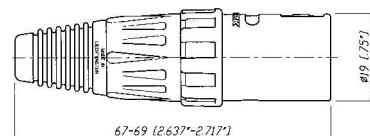
NC3FXCC



NC\*MX-HD



NC3MXCC



\*: 3 - 5 contacts



Switch activating ring



Locking ring

## FXS Series

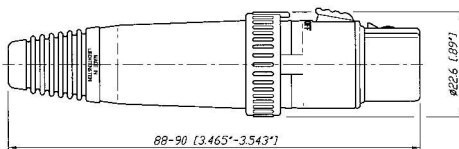


NC3FXS

NC3FXS-B

- Available exclusively in a 3 pin female configuration
- Features a noiseless ON/OFF switch which shorts pins 2 and 3 together muting the signal voltage between conductors
- For use with a microphone that does not have its own On / Off switch
- Rugged zinc diecast shell, long lasting and durable
- Chuck type strain relief system for secure clamping of cables
- Boot with rubber gland gives high protection against bending stresses

### NC3FXS



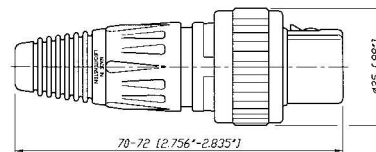
## FX-SPEC Series



NC3FX-SPEC

- Available in a 3 pin female standard configuration with gold plated contacts
- Features a locking ring which is secured with a M 2.5 screw and 1.27 mm allen wrench
- Offers the highest security protection for your microphones
- Protects against accidental disconnects and theft
- Black chrome housing and locking ring
- Eliminates movements and noises

### NC3FX-SPEC





NEW 8 + 2 pole cable connector



Ergonomic latch design



New 8 + 2 pole D-size receptacle



Solder termination

## XLR Type Data Power Connectors – 8 + 2 pole



NC 10FXX-14-B



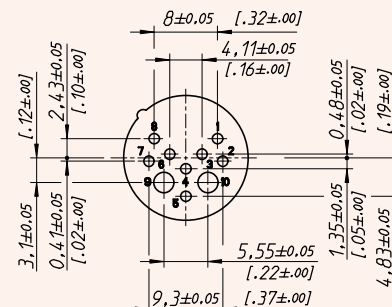
NC 10FRX-14-B



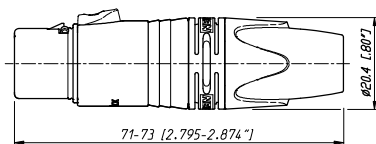
NC 10MD-LX-B

- Suitable for data offering CAT 5e performance and power up to 16 A and 50 V - exceeds PoE+ capabilities
- Superior ruggedness compared to RJ45 type connectors
- All metal housing offers best overall RF protection and electromagnetic shielding
- D-size housing provides installation compatibility with industry standard D mounting dimensions
- Receptacle with duplex ground contact for excellent signal integrity

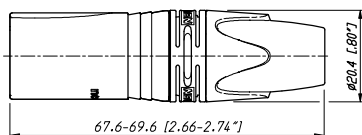
### 8 + 2 pole Contact Arrangement:



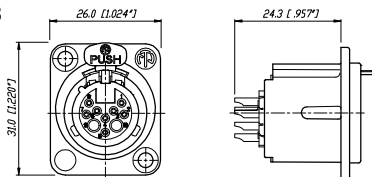
NC10FXX-14-B



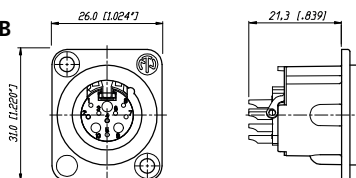
NC10MXX-14-B



NC10FD-LX-B



NC10MD-LX-B



Specification	XX & XX-14 & crystalCON	XLR TOP Series	RX Series	XX-HE Series	XX Crimp Series	EMC Series	convertCON Series
<b>Electrical</b>							
Number of contacts	3 - 7 <sup>1)</sup>	3 - 5	3 - 7	3	3	3	3
Contact resistance	≤ 3 mΩ	●	●	●	●	●	●
Insulation resistance - initial:	> 10 GΩ	●	●	●	●	●	●
- after damp heat test:	> 1 GΩ	●	●	●	●	●	●
Dielectric strength	1.5 kV dc	●	●	●	●	●	●
Cable shield-shell connection	choosable	●	●	●	●	-	●
	determined	-	-	-	-	capacitive	-
Shielding effectiveness	> 55 dB @ 1.3 GHz	-	-	-	-	●	-
Lossy ferrite bead on PIN 1		-	-	-	-	●	-
Rated current per contact	@ 35°C						
	3 pole: 16 A	●	●	●	●	1 A	5 A
	4 pole: 10 A	●	-	●	-	-	-
	5, 6 pole: 7.5 A	●	●	●	-	-	-
	7 pole: 5 A	●	-	●	-	-	-
Capacitance between contacts							
	3 pole: ≤ 4 pF	●	●	●	●	●	●
	4, 5, 6 pole: ≤ 7 pF	●	●	●	-	-	-
	7 pole: ≤ 9 pF	●	-	●	-	-	-
Rated Voltage	< 50 V ac	●	●	●	●	●	●
<b>Mechanical</b>							
Lifetime	> 1'000 cycles	●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	≤ 50 N
Cable O.D. range	3.5 - 8.0 mm	● <sup>2)</sup>	5.0 - 8.0 mm	●	●	●	●
Max. wire size	3 pole: 2.5 mm <sup>2</sup> / AWG 14	●	AWG 16	●	●	-	AWG 20
	4 pole: 1.5 mm <sup>2</sup> / AWG 16	●	-	●	-	-	-
	5, 6, 7 pole: 1.0 mm <sup>2</sup> / AWG 18	●	AWG 16	●	-	-	-
Crimp XX:	0.22 - 0.34 mm <sup>2</sup> / AWG 24 - 22	-	-	-	-	●	-
<b>Material</b>							
Shell	Zinc diecast (ZnAl4Cu1)	●	● (F)	●	●	●	●
	Stainless steel	-	● (M)	-	-	-	-
Shell plating	gal Ni or black Cr	●	●	●	velour Cr	●	●
Insert	Polyamide PA 6.6	●	●	●	PPS 40% GR	●	●
Contacts - female 3 pole:	Bronze (CuSn8)	●	●	●	Brass	●	●
- female 4 - 7 pole & male:	Brass (CuZn39Pb3)	●	●	●	●	-	●
Contact surface	Silver gal 2 μm Ag	●	-	●	-	●	-
	or Gold gal 0.2 μm Au hard alloy over 2 μm Ni	●	●	●	●	-	●
Latch lock	St3K32 (latch) / Ck 67 (spring)	-	●	-	-	-	-
	Zinc diecast (ZnAl4Cu1) / CK67 (Spring)	●	-	●	●	●	●
Strain-relief clamp	POM	●	●	●	●	●	●
Bushing	PA / PU	●	UV-resistant rubber	●	●	●	●
Circumferential ground spring	Bronze (CuSn6), Ni plated	-	-	-	-	●	-
Crimp ferrule	Brass (CuZn39Pb3), Ni plated	-	-	-	-	-	-
Coding ring	Polyamide PA 6 15% GR	-	-	-	-	-	-
Sealing jacket	EPDM	-	-	-	-	-	-
Securing ring	Brass (CuZn39Pb3)	-	-	-	-	-	-
<b>Environmental</b>							
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●
Flammability	UL 94 V-0 (●) / UL 94 HB (○)	●	●	●	●	●	○
Protection class	IP 40	●	IP65 <sup>3)</sup>	●	●	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●
Manufacturing Standard	IEC 61076-2-103	●	●	●	●	●	●

<sup>1)</sup> : XX-14, CRYSTAL: 3 pole

<sup>2)</sup> : XX-14: Cable O.D. 8.0 – 10.0 mm

<sup>3)</sup> : UL50E (mated)

Specification		X Series	XCC Series	X-HD Series	FXS Series	FX-SPEC Series	Data Power XLR
<b>Electrical</b>							
Number of contacts		3 - 7	3	3 - 5	3	3	8 + 2
Contact resistance	≤ 3 mΩ	●	●	●	●	●	●
Insulation resistance	- initial: > 10 GΩ	●	●	●	●	●	●
	- after damp heat test: > 1 GΩ	●	●	●	●	●	0.1 GΩ
Dielectric strength	1.5 kV dc	●	●	●	●	●	1 kV dc
Cable shield-shell connection	choosable	●	-	●	-	●	●
	determined	-	crimp	-	-	-	-
Shielding effectiveness	> 55 dB @ 1.3 GHz	-	●	-	-	-	-
Lossy ferrite bead on PIN 1		-	-	-	-	-	-
Rated current per contact	@ 35°C						16 A (power pins)
	3 pole: 16 A	●	●	●	●	●	-
	4 pole: 10 A	●	-	●	-	-	-
	5, 6 pole: 7.5 A	●	-	●	-	-	-
	7 pole: 5 A	●	-	-	-	-	3 A (data pins)
Capacitance between contacts							
	3 pole: ≤ 4 pF	●	●	●	●	●	-
	4, 5, 6 pole: ≤ 7 pF	●	-	●	-	-	-
	7 pole: ≤ 9 pF	●	-	-	-	-	-
Rated Voltage	< 50 V ac	●	●	●	●	●	-
Transmission Performance	CAT 5e	-	-	-	-	-	●
<b>Mechanical</b>							
Lifetime > 1'000 cycles		●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	●
Cable O.D. range	3.5 – 8.0 mm		5.4 - 6.2 mm	●	3.5 - 7.0 mm	●	8.0 - 10.0 mm
Max. wire size	3 pole: 2.5 mm <sup>2</sup> / AWG 14	●	●	●	●	●	● (2 power)
	4 pole: 1.5 mm <sup>2</sup> / AWG 16	●	-	●	-	●	-
	5, 6, 7 pole: 1.0 mm <sup>2</sup> / AWG 18	●	-	●	-	-	● (8 data)
Crimp tool:	6.5 mm Hex die (size "E" acc. to IEC 60803)	-	●	-	-	-	-
Crimp XX:	0.22 - 0.34 mm <sup>2</sup> / AWG 24 - 22	-	-	-	-	-	-
<b>Material</b>							
Shell	Zinc diecast (ZnAl4Cu1)	●	●	female	●	●	●
	Stainless steel	-	-	male	-	-	-
Shell plating	gal Ni or black Cr	-	●	female	●	●	black Cr
Insert	Polyamide PA 6.6	●	●	●	●	●	●
Contacts	- female 3 pole: Bronze (CuSn8)	●	●	●	●	●	-
	- female 4 – 7 pole & male: Brass (CuZn39Pb3)	●	●	●	-	-	●
Contact surface	Silver gal 2 μm Ag	●	-	-	●	-	-
	or Gold gal 0.2 μm Au hard alloy over 2 μm Ni	-	●	●	-	●	●
Latch lock	St3K32 (latch) / Ck 67 (spring)	●	●	●	●	●	-
	Zinc diecast (ZnAl4Cu1)	-	-	-	-	-	●
Strain-relief clamp	POM	●	●	●	●	●	●
Bushing	PA / PU	●	●	SS/PU	PU	●	●
Circumferential ground spring	Bronze (CuSn6), Ni plated	-	●	-	-	-	-
Crimp ferrule	Brass (CuZn39Pb3), Ni plated	-	●	-	-	-	-
Coding ring	Polyamide PA 6 15% GR	-	●	-	-	-	-
Sealing jacket	EPDM	-	-	●	-	-	-
Securing ring	Brass (CuZn39Pb3)	-	-	-	-	●	-
<b>Environmental</b>							
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●
Flammability	UL 94 V-0	●	●	●	●	●	●
Protection class	IP 40	●	●	IP 65	●	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●
Manufacturing Standard	IEC 61076-2-103	●	●	●	●	●	●

## Ordering Information for Cable Connectors

Female	Male	Shell	Contact - plating	3 pole	4 pole	5 pole	6 pole	7 pole
<b>XX Series</b>								
NC*FXX	NC*MXX	Nickel	Silver	●	●	●	●	●
NC*FXX-B	NC*MXX-B	Black Cr	Gold	●	●	●	●	●
NC*FXX-BAG	NC*MXX-BAG	Black Cr	Silver	●	●	●	●	●
NC3FXX-WT	NC3MXX-WT	White painted	Silver	●	-	-	-	-
NC3FXX-**-D <sup>1</sup>	NC3MXX-**-D <sup>1</sup>	Nickel / Black Cr	Silver / Gold	●	-	-	-	-
NC6FSXX <sup>2</sup>	NC6MSXX <sup>2</sup>	Nickel	Silver	-	-	-	●	-
NC6FSXX-B <sup>2</sup>	NC6MSXX-B <sup>2</sup>	Black Cr	Gold	-	-	-	●	-
NC6FSXX-BAG <sup>2</sup>	NC6MSXX-BAG <sup>2</sup>	Black Cr	Silver	-	-	-	●	-
<b>XLR TOP Series</b>								
NC*FX-TOP	NC*MX-TOP	Nickel / Black Cr	Gold	●	-	●	-	-
<b>RX Series</b>								
NC*FRX	NC*MRX	Nickel	Silver	●	●	●	●	●
NC*FRX-B	NC*MRX-B	Black Cr	Gold	●	●	●	●	●
NC*FRX-BAG	NC*MRX-BAG	Black Cr	Silver	●	●	●	●	●
<b>XX-HE Series</b>								
NC3FXX-HE	NC3MXX-HE	Velour Chromium	Gold	●	-	-	-	-
<b>XX-14 Series</b>								
NC3FXX-14-D	NC3MXX-14-D	Nickel	Silver	●	-	-	-	-
NC3FXX-14-B-D	NC3MXX-14-B-D	Black Cr	Gold	●	-	-	-	-
NC3FXX-14-BAG-D	NC3MXX-14-BAG-D	Black Cr	Silver	●	-	-	-	-
<b>XX Crimp Series</b>								
NC3FXX-HA	NC3MXX-HA	Nickel	Silver	●	-	-	-	-
NC3FXX-HA-BAG	NC3MXX-HA-BAG	Black Cr	Silver	●	-	-	-	-
<b>crystalCON</b>								
NC3FXX-B-CRYSTAL	NC3MXX-B-CRYSTAL	Black Cr	Gold	●	-	-	-	-
<b>XX-EMC Series</b>								
NC3FXX-EMC	NC3MXX-EMC	Nickel	Gold	●	-	-	-	-
NC3FXX-EMC-B	-	Black Cr	Gold	●	-	-	-	-
<b>convertCON Series</b>								
	NC3FM-C	Nickel	Gold	●	-	-	-	-
	NC3FM-C-B	Black Cr	Gold	●	-	-	-	-

## Ordering Information for Cable Connectors

Female	Male	Shell	Contact - plating	3 pole	4 pole	5 pole	6 pole	7 pole
<b>X Series</b>								
NC*FX	NC*MX	Nickel	Silver	●	●	●	●	●
NC*FX-B	NC*MX-B	Black Cr	Gold	●	●	●	●	●
NC*FX-BAG	NC*MX-BAG	Black Cr	Silver	●	●	●	●	●
NC3FX-**-D <sup>1</sup>	NC3MX-**-D <sup>1</sup>	Nickel / Black Cr	Silver / Gold	●	-	-	-	-
NC6FSX <sup>2</sup>	NC6MSX <sup>2</sup>	Nickel	Silver	-	-	-	●	-
NC6FSX-B <sup>2</sup>	NC6MSX-B <sup>2</sup>	Black Cr	Gold	-	-	-	●	-
NC6FSX-BAG <sup>2</sup>	NC6MSX-BAG <sup>2</sup>	Black Cr	Silver	-	-	-	●	-
<b>X-HD Series</b>								
NC*FX-HD	NC*MX-HD	Nickel	Gold	●	●	●	-	-
NC3FX-HD-B	NC3MX-HD-B	Metal Black	Gold	●	-	-	-	-
<b>XCC Series</b>								
NC3FXCC	NC3MXCC	Nickel	Gold	●	-	-	-	-
<b>FXS Series</b>								
NC3FXS	-	Nickel	Gold	●	-	-	-	-
NC3FXS-B	-	Black Cr	Gold	●	-	-	-	-
<b>FX-SPEC. Series</b>								
NC3FX-SPEC.	-	Black Cr	Gold	●	-	-	-	-

## Ordering Information for 8 + 2 pole Data Power Connectors

Female	Male	Shell	Contact - plating	8 + 2 pole
<b>Cable Connector</b>				
NC10FXX-14-B	NC10MXX-14-B	Black Cr	Gold	●
NC10FRX-14-B	NC10MRX-14-B	Black Cr	Gold	●
<b>Receptacle</b>				
NC10FD-LX-B	NC10MD-LX-B	Black Cr	Gold	●

\* : Number of Contacts

\*\* : Nickel or Black

-D<sup>1</sup> : Bulk packed, to be ordered in multiples of 100 pcs.

<sup>2</sup> : Switchcraft Equivalent

## Colour Coded Accessories

Part No.	Description	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White
		0	1	2	3	4	5	6	7	8	9
BSX-*	Colored bushing for X Series										
BXX-*	Colored bushing for XX Series										
XCR-*	Colored coding ring for X Series										
XXR-*	Colored coding ring for XX Series										
XXR-* NEO <b>NEW</b>	Neon colored coding rings for XX Series	-	-		-				-	-	

## Accessories

BXX-CR	Bushing with translucent coding ring
BXX-14	Large bushing set (cable O.D. 8.5 mm)
XXCR	Translucent coding ring for XX Series Label Dimensions: 57.9 mm x 6.35 mm – 2.25" W x 0.25" H)

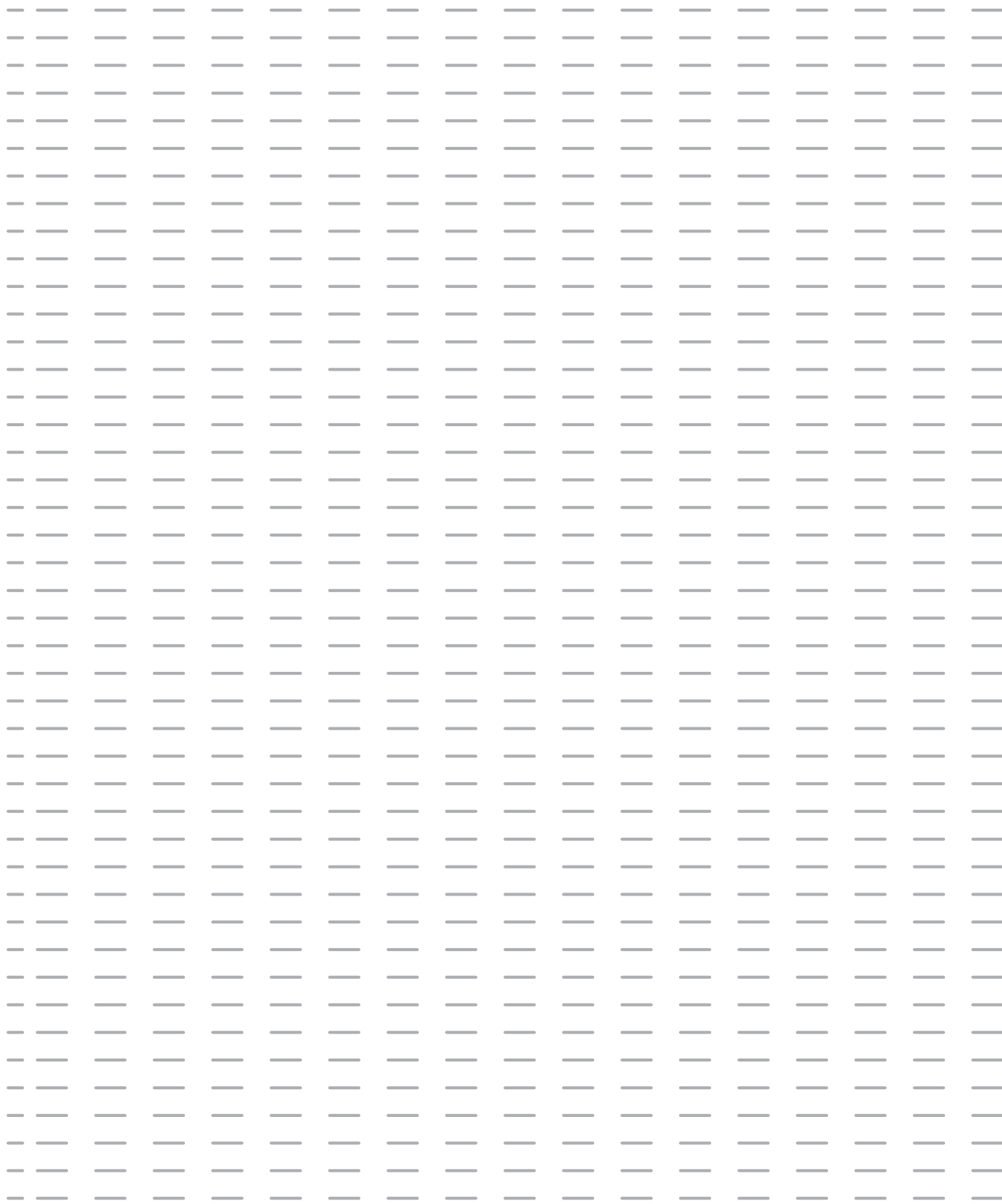


## Assembly Tools

HTXP	Hand tool to tighten the XX and PX-bushing
HTXX-14	Hand tool to tighten the XX-14 and 8 + 2 pole bushing
BTXX	Speed boot assembly tool to press the XX boot onto shell
HX-R-BNC	Crimp tool for XCC Series
DIE-R-BNC-PT	Crimp die for XCC Series (6.5 mm HEX)
DIE-R-HA-1	Crimp die for XX-HA Series









Smallest receptacle



Lateral right PCB mount



Locking release tab



Ground contact



Ergonomic asymmetric locking release tab

## A Series



NC3FAH



NC3MAV

## AA Series



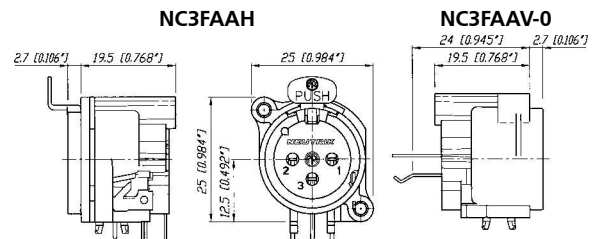
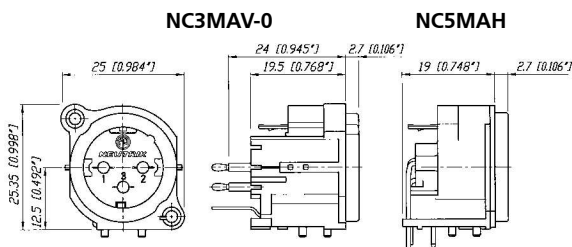
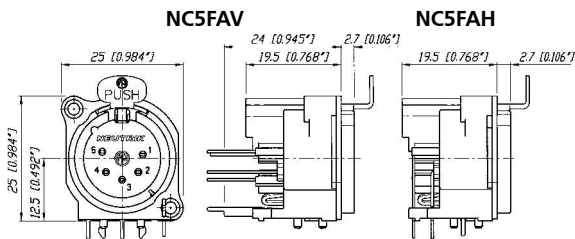
NC3FAAV2



NC3MAAH-1

- Smallest XLR receptacles, highest packing density
- Plastic housing
- Various grounding options
- "Tulip" type female contact design with high contact pressure
- Selective gold plated contact and PCB termination area for best conductivity and solderability
- Plastic housing flammability UL 94V-0 for 3 pole version only

- Front panel cutout and PCB layout 100% compatible to the A Series
- Most cost-effective series
- "Tulip" type female contact design with high contact pressure
- Selective gold plated contact and PCB termination area for best conductivity and solderability
- Plastic housing flammability UL 94 HB



### Grounding Options (A / AA / B Series):

#### Female:

- 1: Pin 1 & Panel & Shell connected, no separate ground contact
- 2: Separate ground contact connected to shell & panel, separate Pin 1 w/o number: No ground / Shell contact (except 4 / 5 pole)

#### Male:

- 0: Separate ground contact, connected to shell, separate Pin 1
- 1: Pin 1 & Panel & Shell connected, no separate ground contact
- w/o number: Separate ground contact connected to shell & panel, separate Pin 1



Front panel grounding



Ergonomic asymmetric locking release tab



Incorporated switch



## B Series



NC3FBV1



NC4MBV

## A/B Series - Switch



NC3FBV2-SW

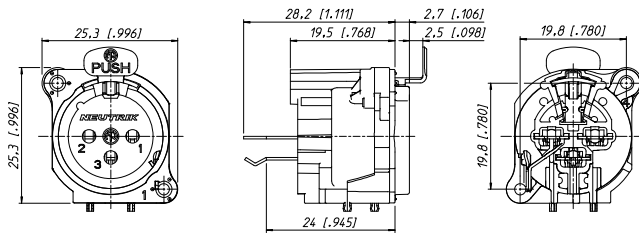


NC3MBV-SW

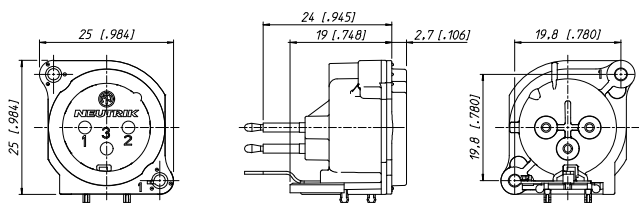
- The B Series XLR receptacle offers the same features as our A Series product line with the added feature of a metal ring
- Metal ring on shell (nickel or black) offers complete EMC and RF protection
- Female versions available latchless
- Rear mount only
- "Tulip" type female contact
- Plastic housing flammability UL 94V-0 for 3 pole version only

- A and B Series connector with additional switch
- Normally open, normally closed (NO – NC) contact
- Switch activated by mating XLR cable connector

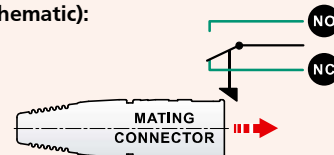
### NC3FBV1



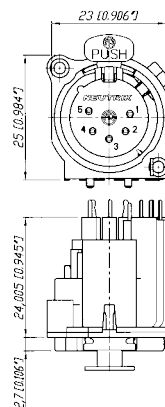
### NC3MBV



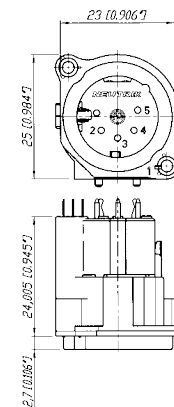
### Inserting (Schematic):



### NC5FAV-SW



### NC5MBV-SW





Locking release tab



Removable insert

## XLR TOP Series



NC3FDX-TOP



NC3MDX-TOP

- Heavy-duty sealed XLR connector range
- 3 and 5 pin chassis connector
- Outdoor protection acc. IP65 and UL 50E
- Uses high impact UV resistant materials per UL
- Gold plated contacts
- Maintain sealing when in use and when disconnected
- Optional waterproof and UV resistant protection cap

## D Series



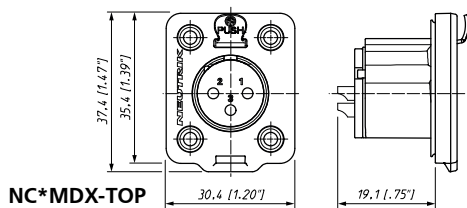
NC3FDM3-H-B



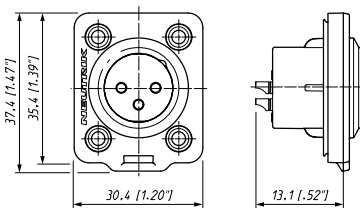
NC3MD-V

- "D" shape metal shell
- Optimal RF protection using 3 shield contacts
- Horizontal and vertical PCB mount with separate ground contact
- Mounting holes with M3 threads available
- 2 piece connector, insert is removable from shell
- Front locked / unlocked insert

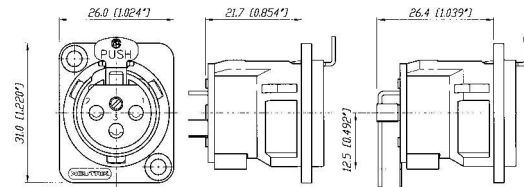
### NC\*FDX-TOP



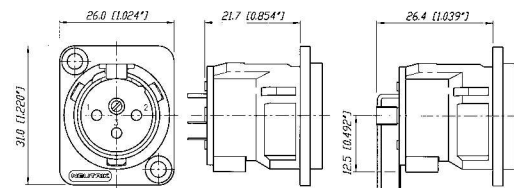
### NC\*MDX-TOP



### NC3FD-V / NC3FD-H



### NC3MD-V / NC3MD-H



\*: 3 - 5 contacts



Locking release tab



Horizontal PCB mount



Ground shielding



White painted housing



## DL Series



NC3FD-L-1



NC7MD-L-B-1



NC3FD-LX-HE

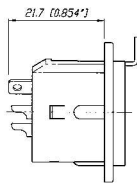
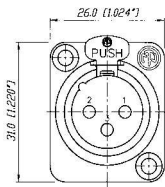


NC5MD-LX

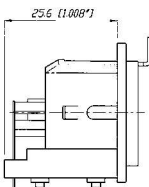
- Unified "D" shape metal shell
- Solder cups on 3 – 7 pole version
- Additional PCB mount on 4 and 5 pole
- Front and rear mountable

- Next generation of the popular DL Series with greater functionality
- All metal housing offers best overall RF protection and electromagnetic shielding
- Duplex ground contact for excellent contact integrity between chassis and cable connector
- Unique cage type female contact on 3 pole version increases conductivity and reduces wear on the mated male contact
- Female contact incorporates a solder barrier to prevent solder running into the contact mating area
- Larger solder contacts for easier termination
- Optional connection to easily join pin1 to chassis ground
- D-style housing provides installation compatibility with

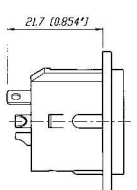
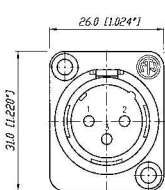
NC3FD-L-1



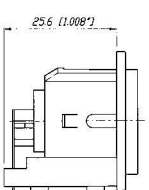
NC\*FDM3-H



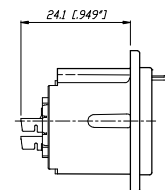
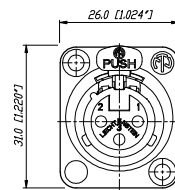
NC3MD-L-1



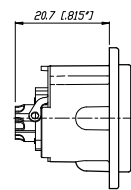
NC\*MDM3-H



NC3FD-LX



NC\*MD-LX



\*: 3 - 5 contacts

\*: 3 - 7 contacts



Crimp type contact



Circumferential ground spring

## DLX Crimp Series



NC3FD-LX-HA



NC3MD-LX-BAG-HA

- 3 pole DLX Series with crimp contacts
- Accommodates wire size AWG 24 – 22 or 0.22 – 0.34 mm<sup>2</sup>
- Utilizes standard B-type crimp tool (acc. IEC 60352-2)
- Absolute leadfree and solderless connection:
  - RoHs compliance
  - Health and eco-friendly
- Fast and easy assembly
- Gas-tight connection offers a constant contact resistance
- Ideal solution for field and on-site termination

## EMC Series

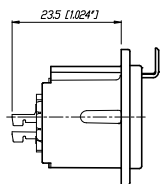
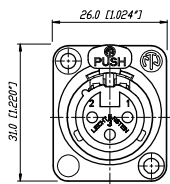


NC3FDX-EMC-SPEC

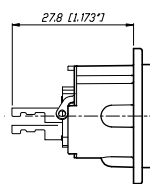
- 3 pole female XLR chassis connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact ensures best possible shielding and chassis contact
- D flange chassis for panel mount applications
- Includes the locking nut of the NC3FX-SPEC for secure fastening of a gooseneck for instance
- Special flange for large openings available
- Patent pending

Detailed information of RF-shielding see page 7 – EMC cable connector.

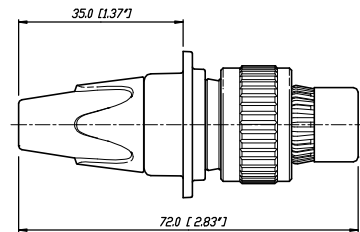
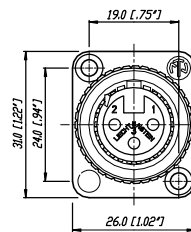
NC3FD-LX-HA



NC3MD-LX-HA



NC3FDX-EMC-SPEC

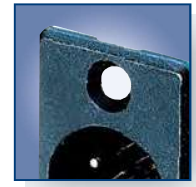




Sealing gasket



Through hole fastening



## MPR-HD Series



NC3MPR-HD



NC5MPR-HD

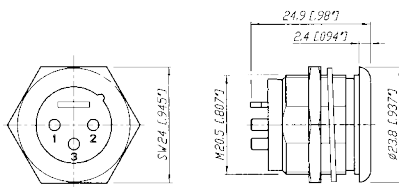
- IP 65 – in combination with NC\*FX-HD cable connectors
- Perfect for outdoor applications
- Sealing gasket for water tight panel mount
- Gold plated contacts



NC5MPR-HD

NC5FX-HD

NC3MPR-HD



\*: 3 - 5 contacts

## P Series



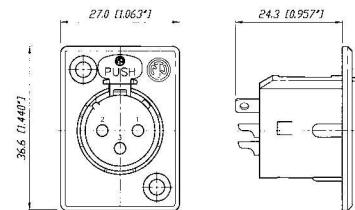
NC3FP-1



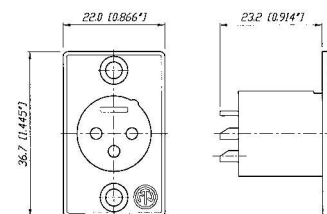
NC6MP-B

- Male and female available in 3 – 6 pin configurations; 7 pin version available in female only
- Smallest available hard wiring receptacles with large solder cups
- Male and female use different mounting hole dimensions and do not fit in the same mounting hole
- Front mountable only
- One piece version – insert is NOT removable from shell
- Short female receptacle
- Compatible with Switchcraft® DxM, DxP; Cannon XLRx31, XLRx32
- 6 pole female version available with Switchcraft contact arrangement

NC3FP-1



NC3MP





Front end design



Solder termination

## Combo I Series



NCJ9FI-V



NCJ10FI-S

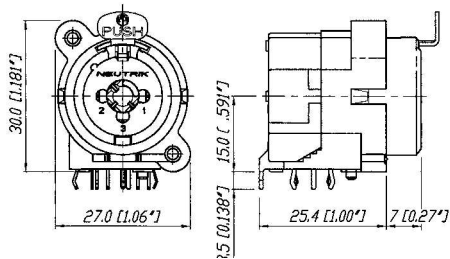
- Combined XLR receptacle and 1/4" phone jack
- Attractive "front end" design
- Saves rack space by combining 2 connectors in one housing
- Horizontal or vertical PCB mount or hard wire soldering
- Fully normalled
- Stereo or mono version

- Very low conductor capacitance, therefore suitable for digital audio
- Fastening: Self-tapping Plastite® screws with thread 2.9 x 1.06 and tri-rondular configuration (A screw)

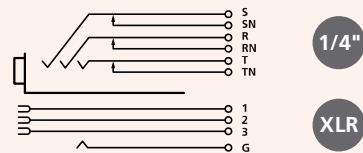


XLR receptacle or 1/4" phone jack

NCJ10FI-H



Wiring: Example of NCJ9FI-H







Horizontal PCB mount



Vertical PCB mount



**NEW:** Ergonomic asymmetric locking release tab

## Combo A Series



NCJ6FA-V-0



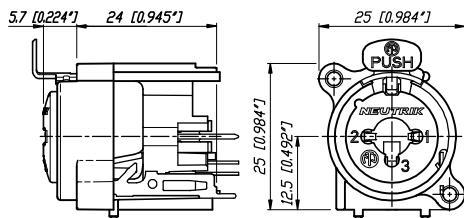
NCJ6FA-H



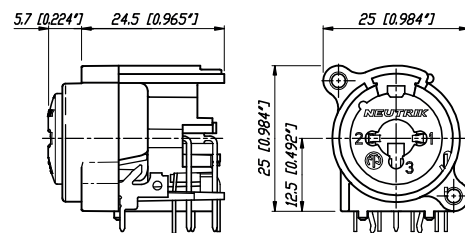
NCJ6FA-V-0

- Combined 3 pole XLR receptacle and 1/4" phone jack for balanced mic and line or instrument inputs in one XLR housing
- Dramatic space saving – 15 % over the predecessor Combo
- Two connectors in one housing – substantial cost, material and labour saving
- Horizontal and vertical PCB mount available
- 3 pole female XLR combined with stereo TRS jack
- Very low conductor capacitance – ideal for digital audio
- Front panel cut-out compatible with Neutrik XLR A Series

**NCJ6FA-V**



**NCJ6FA-H**



Specification	A Series	AA Series	B Series	XLR TOP Series	D Series	DL / DLX Series	DLX Crimp
<b>Electrical</b>							
Number of contacts	3 - 5	3	3 - 5	3 - 5	3	3 - 7	3
Contact resistance	XLR: ≤ 6 mΩ	●	●	●	●	●	●
1/4" & switching contacts**:	≤ 20 mΩ	-	-	-	-	-	-
Insulation resistance - initial:	> 10 GΩ	●	●	●	●	●	●
- after damp heat test:	> 1 GΩ	●	●	●	●	●	●
Dielectric strength	1.5 kV dc	●	●	●	●	●	●
Rated voltage	< 50 V ac	●	●	●	●	●	●
Rated current per contact							
3 pole:	6 A	●	●	●	16 A	●	16 A
4 pole:	6 A	●	-	●	-	-	10 A
5, 6 pole:	3 A	●	-	●	7.5 A	-	7.5 A
7 pole:	5 A	-	-	-	-	●	-
Combo XLR + Jack contact	7.5 A	-	-	-	-	-	-
Capacitance between contacts							
3 pole:	≤ 4 pF	●	●	●	-	●	●
4, 5, 6 pole:	≤ 7 pF	●	-	●	-	●	-
7 pole:	≤ 9 pF	-	-	-	-	●	-
<b>Mechanical</b>							
Lifetime	> 1`000 mating cycles	●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	●
Retention method							
- standard:	latch lock	●	●	●	●	●	●
- "0" Version:	≥ 20 N separating force	●	●	●	●	●	-
Crimp XX:	0.22 - 0.34 mm <sup>2</sup> / AWG 24 - 22	-	-	-	-	-	●
<b>Material</b>							
Insert	Polyamide PA 6.6	●	●	●	●	●	●
Shell	Zinc diecast ZnAl4Cu1	-	-	-	PA 6.6 30% GR	●	●
Shell plating	gal Ni or black Cr	-	-	●	-	●	●
Ring	Zinc diecast ZnAl4Cu1	-	-	●	-	-	-
Contacts	- female 3 pole: Bronze CuSn6	●	●	●	●	●	●
	4 - 5 pole: Bronze CuSn6	●	-	-	-	-	-
	4 - 7 pole: Brass CuZn39Pb3	-	-	-	●	●	-
	- male: Brass CuZn35Pb2	●	●	●	●	●	●
Contact surface	gal 0.2 μm AuCo over 2 μm NiP15 (Tribor®)	●	●	●	-	-	-
	gal 2 μm Ag or gal 0.2 μm Au hard alloy over 2 μm Ni	-	-	-	●	●	●
Latch lock & spring	Ck 67 steel, treated	●	●	●	●	●	●
<b>Environmental</b>							
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●
Protection class	IP 40	●	●	●	IP65 <sup>3)</sup>	●	●
Flammability	UL 94 HB	-	●	-	●	-	-
	UL 94 V-0	●	-	●	-	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●
Mounting screw		A	A	1)	-	-	-
Color coding		ACR* <sup>2)</sup>	-	ACR* <sup>2)</sup>	-	DSS	DSS
		(4 + 5 pole only)					
<p>1) : B Series 3 pole connectors &gt; B-screw, 4 &amp; 5 pole versions &gt; A-screw      <sup>3)</sup> : UL50E (mated)</p> <p>2) : 4 + 5 pole A series, 5 pole B series</p>							

Specification			DLX-HE Series	MPR-HD Series	P Series	Combo I Series	A Combo
<b>Electrical</b>							
Number of contacts			3	3-5	3-7 (6*)	5-10	3/3
Contact resistance	XLR: $\leq 6 \text{ m}\Omega$		●	●	●	$\leq 10 \text{ m}\Omega$	$\leq 10 \text{ m}\Omega$
	1/4" & switching contacts**:	$\leq 20 \text{ m}\Omega$	-	-	-	●	$\leq 10 \text{ m}\Omega$
Insulation resistance	- initial:	$> 10 \text{ G}\Omega$	●	●	●	●	●
	- after damp heat test:	$> 1 \text{ G}\Omega$	●	●	●	$> 500 \text{ m}\Omega$	●
Dielectric strength		1.5 kV dc	●	●	●	●	●
Rated voltage		50 V ac	●	●	●	●	●
Rated current per contact							
	3 pole:	6 A	16 A	16 A	16 A	-	3 A
	4 pole:	6 A	-	10 A	10 A	-	-
	5, 6 pole:	3 A	-	7.5 A	7.5 A	-	-
	7 pole:	5 A	-	-	●	-	-
Combo XLR + Jack contact		7.5 A	-	-	-	●	●
Capacitance between contacts							
	3 pole:	$\leq 7 \text{ pF}$	$\leq 4 \text{ pF}$	$\leq 4 \text{ pF}$	$\leq 4 \text{ pF}$	$\leq 2 \text{ pF}$	$\leq 2 \text{ pF}$
	4, 5, 6 pole:	$\leq 7 \text{ pF}$	-	●	●	-	-
	7 pole:	$\leq 9 \text{ pF}$	-	-	●	-	-
<b>Mechanical</b>							
Lifetime		$> 1'000$ mating cycles	●	●	●	●	●
Insertion / withdrawal force		$\leq 20 \text{ N}$	●	●	●	25 N	●
Retention method							
	- standard:	latch lock	●	●	●	● (XLR)	● (XLR)
	- "0" Version:	$\geq 20 \text{ N}$ separating force	-	●	●	25 N	25 N
Crimp XX:		0.22 - 0.34 mm <sup>2</sup> / AWG 24 - 22	-	-	-	-	-
<b>Material</b>							
Insert	Polyamide	PA 6.6	PSS 40% GR	●	●	●	●
Shell	Zinc diecast	ZnAl4Cu1	●	●	●	-	-
Shell plating		gal Ni or black Cr	velour Cr	Ni	●	-	-
Ring	Zinc diecast	ZnAl4Cu1	-	-	-	-	-
Contacts	- female 3 pole:	Bronze CuSn6	●	-	●	●	●
	4 – 5 pole:	Bronze CuSn6	-	-	-	-	-
	4 – 7 pole:	Brass CuZn39Pb3	-	-	●	-	-
	- male:	Brass CuZn35Pb2	●	●	●	-	-
Contact surface	gal 0.2 $\mu\text{m}$ AuCo over 2 $\mu\text{m}$ NiP15 (Tribor®)		●	-	-	●	●
	gal 2 $\mu\text{m}$ Ag or gal 0.2 $\mu\text{m}$ Au hard alloy over 2 $\mu\text{m}$ Ni		-	Au	●	-	-
Latch lock & spring		Ck 67 steel, treated	●	-	●	●	●
<b>Environmental</b>							
Operating temperature		-30 °C to +80 °C	●	●	●	●	●
Protection class		IP 40	●	IP 65	●	●	●
Flammability		UL 94 HB	-	●	-	-	-
		UL 94 V-0	●	-	●	●	●
Solderability complies with		IEC 68-2-20	●	●	●	●	●
Mounting screw			-	-	-	A	A
Color coding			DSS	-	-	-	-
*... P Series male 3 – 6 pole							
**... if existing							

## Ordering Information for Receptacles

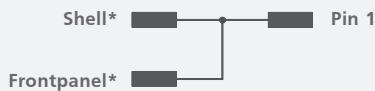
Female	Male	Shell	Contact	3 pole	4 pole	5 pole	Female	Male	Shell	Contact	3 pole	
<b>A Series</b>							<b>AA Series</b>					
NC*FAH-D		Black Plastic	Gold	-	● <sup>1)</sup>	● <sup>1)</sup>	NC3FAAH	NC3MAAH	Black Plastic	Gold	●	
	NC*MAH	Black Plastic	Gold	●	●	●	NC3FAAH-0		Black Plastic	Gold	●	
NC*FAH-0		Black Plastic	Gold	●	● <sup>1)</sup>	● <sup>1)</sup>	NC3FAAH1	NC3MAAH-1	Black Plastic	Gold	●	
	NC3MAH-0	Black Plastic	Gold	●	-	-	NC3FAAH1-0		Black Plastic	Gold	●	
NC3FAHL-0		Black Plastic	Gold	●	-	-		NC3MAAH-0	Black Plastic	Gold	●	
NC3FAHR-0		Black Plastic	Gold	●	-	-	NC3FAAH2		Black Plastic	Gold	●	
NC3FAH1-D		Black Plastic	Gold	●	-	-	NC3AAH2-0		Black Plastic	Gold	●	
NC3FAH1-0		Black Plastic	Gold	●	-	-	NC3FAAV	NC3MAAV	Black Plastic	Gold	●	
NC3FAHL1-D		Black Plastic	Gold	●	-	-	NC3FAAV-0		Black Plastic	Gold	●	
	NC3MAHL	Black Plastic	Gold	●	-	-	NC3FAAV1	NC3MAAV-1	Black Plastic	Gold	●	
NC3FAHL1-0		Black Plastic	Gold	●	-	-	NC3FAAV1-0		Black Plastic	Gold	●	
NC3FAHR1-D		Black Plastic	Gold	●	-	-		NC3MAAV-0	Black Plastic	Gold	●	
	NC3MAHR	Black Plastic	Gold	●	-	-	NC3FAAV2		Black Plastic	Gold	●	
NC3FAHR1-0		Black Plastic	Gold	●	-	-	NC3FAAV2-0		Black Plastic	Gold	●	
NC3FAH2-D		Black Plastic	Gold	●	-	-						
NC3FAH2-0		Black Plastic	Gold	●	-	-						
NC3FAHR2-D		Black Plastic	Gold	●	-	-						
NC3FAHR2-0		Black Plastic	Gold	●	-	-						
NC*FAV-D		Black Plastic	Gold	-	● <sup>1)</sup>	● <sup>1)</sup>						
	NC*MAV	Black Plastic	Gold	●	●	●	A Series – D version come with disassembled Push latch, version with assembled latch omit -D.					
NC*FAV-0		Black Plastic	Gold	●	● <sup>1)</sup>	● <sup>1)</sup>	AA Series comes with Push Latch assembled.					
	NC3MAV-0	Black Plastic	Gold	●	-	-	A / AA Series rear mount only, all PCB mount except Y version = IDC					
NC3FAV1-D		Black Plastic	Gold	●	-	-	-DA: with asymmetric push					
NC3FAV1-0		Black Plastic	Gold	●	-	-	1): Grounding Option "2"					
NC3FAV2-D		Black Plastic	Gold	●	-	-	0: Retention Spring					
NC3FAV2-0		Black Plastic	Gold	●	-	-						
<b>A Series Switch</b>												
NC5FAV-SW-D	NC5MAV-SW	Black Plastic	Gold	-	-	●						

## Grounding Options

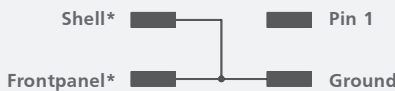
### A / AA Series and B Series

#### Female - 3 pole

"1"

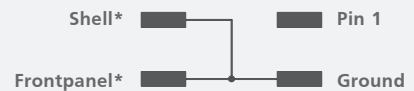


"2"



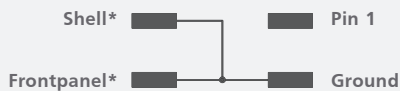
#### Female 4 & 5 pole

w/o number

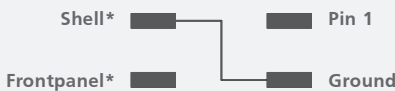


#### Male - 3, 4 & 5 pole

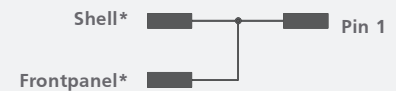
w/o number



"0" and L + R version



"1"



Shell\* : Contact to shell of mating connector  
 Frontpanel\* : Connection to frontpanel by fastening screw

## Ordering Information for Receptacles

Female	Male	Flange	Contact	3 pole	4 pole	5 pole
--------	------	--------	---------	--------	--------	--------

B Series						
NC*FBH		Metal	Gold	-	●	●
	NC*MBH	Metal	Gold	●	●	●
NC5FBH-B	NC5MBH-B	Black Metal	Gold	-	-	●
	NC3MBH-B	Black Metal	Gold	●	-	-
	NC3MBH-0	Metal	Gold	●	-	-
NC3FBH1	NC3MBH-1	Metal	Gold	●	-	-
NC3FBH1-B		Black Metal	Gold	●	-	-
NC3FBH1		Metal	Gold	●	-	-
	NC3MBHL	Metal	Gold	●	-	-
	NC3MBHL-B	Black Metal	Gold	●	-	-
NC3FBH2		Metal	Gold	●	-	-
NC3FBH2-B		Black Metal	Gold	●	-	-
	NC3MBHR	Metal	Gold	●	-	-
	NC3MBHR-B	Black Metal	Gold	●	-	-
NC3FBH1-E	NC3MBV-E	Metal	Gold	●	-	-
NC3FBH2-E		Metal	Gold	●	-	-
	NC3MBH-E	Metal	Gold	●	-	-
	NC*MBV	Metal	Gold	●	●	●
	NC3MBV-B	Black Metal	Gold	●	-	-
NC*FBV		Metal	Gold	-	●	●
NC5FBV-B	NC5MBV-B	Black Metal	Gold	-	-	●
NC3FBV1		Metal	Gold	●	-	-
NC3FBV1-B		Black Metal	Gold	●	-	-
NC3FBV2		Metal	Gold	●	-	-
NC3FBV2-B		Black Metal	Gold	●	-	-
	NC3MBV-0	Metal	Gold	●	-	-
	NC3MBV-1	Metal	Gold	●	-	-

B Series Switch						
NC3FBV2-SW	NC3MBV-SW	Metal	Gold	●	-	-
NC5FBV-SW	NC5MBV-SW	Metal	Gold	-	-	●

### XLR TOP Series

NC*FDX-TOP	NC*MDX-TOP	Black Plastic	Gold	●	-	●
------------	------------	---------------	------	---	---	---


-DA: with asymmetric push  
 D: version come with disassembled Push latch, version with assembled latch omit -D.  
 B: Series rear mount only  
 0: Retention spring on request

Female	Male	Shell	Contact	3 pole	4 pole	5 pole	6 pole	7 pole
--------	------	-------	---------	--------	--------	--------	--------	--------

D Series								
NC3FD-V	NC3MD-V	Nickel	Silver	●	-	-	-	-
NC3FD-V-B	NC3MD-V-B	Black Cr	Gold	●	-	-	-	-
NC3FD-V-BAG	NC3MD-V-BAG	Black Cr	Silver	●	-	-	-	-
NC3FDM3-V	NC3MDM3-V	Nickel	Silver	●	-	-	-	-
NC3FDM3-V-B	NC3MDM3-V-B	Black Cr	Gold	●	-	-	-	-
NC3FD-H	NC3MD-H	Nickel	Silver	●	-	-	-	-
NC3FD-H-B	NC3MD-H-B	Black Cr	Gold	●	-	-	-	-
NC3FD-H-BAG	NC3MD-H-BAG	Black Cr	Silver	●	-	-	-	-
NC3FDM3-H	NC3MDM3-H	Nickel	Silver	●	-	-	-	-
NC3FDM3-H-B	NC3MDM3-H-B	Black Cr	Gold	●	-	-	-	-
NC3FDM3-H-BAG	NC3MDM3-H-BAG	Black Cr	Gold	●	-	-	-	-

### DLX Series

NC*FD-LX	NC*MD-LX	Nickel	Silver	●	●	●	●	●
NC*FD-LX-B	NC*MD-LX-B	Black Cr	Gold	●	●	●	●	●
NC*FD-LX-BAG	NC*MD-LX-BAG	Black Cr	Silver	●	●	●	●	-
NC*FD-LX-M3	NC*MD-LX-M3	Nickel	Silver	●	●	●	-	-
NC3FD-LX-HE	NC3MD-LX-HE	Velour Cr	Gold	●	-	-	-	-
NC3FD-LX-WT	NC3MD-LX-WT	White	Silver	●	-	-	-	-
NC6FSD-LX	NC6MSD-LX	Nickel	Silver	-	-	-	●	-

### DL Series

NC*FD-L-1	NC*MD-L-1	Nickel	Silver	●	●	●	●	●
NC*FD-L-B-1	NC*MD-L-B-1	Black Cr	Gold	●	●	●	●	●
NC*FD-L-BAG-1	NC*MD-L-BAG-1	Black Cr	Silver	●	●	●	●	-
NC*FDM3-L-1	NC*MDM3-L-1	Nickel	Silver	●	●	●	-	-
NC3FDM3L-BAG-1	NC3MDM3L-BAG-1	Black Cr	Silver	●	-	-	-	-
NC3FD-L-1-HE	NC3MD-L-1-HE	Velour Cr	Gold	●	-	-	-	-
NC*FDM3-H	NC*MDM3-H	Nickel	Silver	-	●	●	●	-
NC*FDM3-H-B	NC*MDM3-H-B	Nickel	Silver	-	●	●	-	-
NC*FDM3-H-BAG	NC*MDM3-H-BAG	Black Cr	Silver	-	●	●	-	-
NC3FD-S-1-B	NC3MD-S-1-B	Black Cr	Silver	●	-	-	-	-

### DLX Crimp Series

NC3FD-LX-HA	NC3MD-LX-HA	Nickel	Silver	●	-	-	-	-
NC3FD-LX-HA-BAG	NC3MD-LX-HA-BAG	Black Cr	Silver	●	-	-	-	-

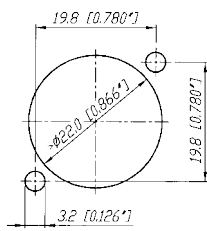



## Ordering Information for Receptacles

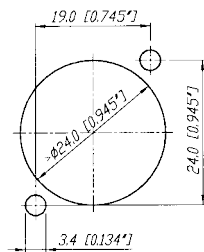
Female	Male	Shell	Contact	3	4	5	6	7	Shell	Contact	5	6	9	10
				pole	pole	pole	pole	pole			pole	pole	pole	pole
<b>EMC XLR</b>														
NC3FDX-EMC-SPEC		Black Cr	Gold	●	-	-	-	-						
<b>Accessories</b>														
FDR-1		Black round panel mounting flange with screws for larger panel cut-outs												
<b>P Series</b>														
NC*FP-1		Nickel	Silver	●	●	●	●	●						
NC*MP		Nickel	Silver	●	●	●	●	-						
NC*FP-B-1		Black Cr	Gold	●	●	●	●	●						
NC*MP-B		Black Cr	Gold	●	●	●	●	-						
NC*FP-BAG-1		Black Cr	Silver	●	●	●	●	-						
NC*MP-BAG		Black Cr	Silver	●	●	●	●	-						
<b>MPR-HD Series</b>														
- NC*MPR-HD		Nickel	Gold	●	●	●	-	-						
<b>Combo A Series</b>														
NCJ6FA-H		Black plastic	Gold	-	●	-	-	-						
NCJ6FA-H-0		Black plastic	Gold	-	●	-	-	-						
NCJ6FA-H-DA		Black plastic	Gold	-	●	-	-	-						
NCJ6FA-V		Black plastic	Gold	-	●	-	-	-						
NCJ6FA-V-0		Black plastic	Gold	-	●	-	-	-						
NCJ6FA-V-DA		Black plastic	Gold	-	●	-	-	-						
<b>Combo I Series</b>														
NCJ*FI-H		Black plastic	Gold	●	●	●	●	●						
NCJ*FI-H-0		Black plastic	Gold	●	●	●	●	●						
NCJ*FI-S		Black plastic	Gold	●	●	●	●	●						
NCJ*FI-S-0		Black plastic	Gold	●	●	●	●	●						
NCJ*FI-V		Black plastic	Gold	●	●	●	●	●						
NCJ*FI-V-0		Black plastic	Gold	●	●	●	●	●						
<b>Contact #</b>														
		<b>1</b>	<b>2</b>	<b>3</b>	<b>T</b>	<b>R</b>	<b>S</b>	<b>TN</b>	<b>RN</b>	<b>SN</b>	<b>G</b>	<b>GN</b>		
NCJ5FI-*		x	x	x	x		x					x		
NCJ6FI-*		x	x	x	x	x	x					x		
NCJ9FI-*		x	x	x	x	x	x	x	x	x	x	x		
NCJ10FI-*		x	x	x	x	x	x	x	x	x	x	x	x	

## Panel Cutouts

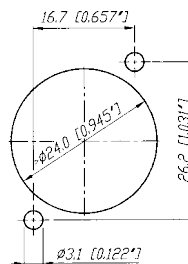
A/AA/B Series



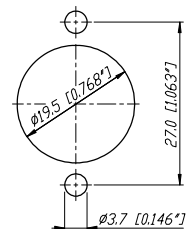
D/DL/DLX Series



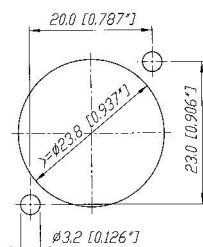
P Series Female



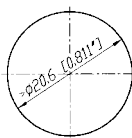
P Series Male



Combo



MPR Series



## Color Coded Accessories

Part No.	Description	Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White
		0	1	2	3	4	5	6	7	8	9
ACRF-*	Colored ring for female 4 pole A Series and 4 + 5 pole B Series										
ACRM-*	Colored ring for male 4 pole A Series and 4 + 5 pole B Series										
DSS-*	Lettering plate for D Series										

## Accessories

A-Screw-1-8	Plastite® screw 2.9 x 8						
B-Screw-1-8	TAPTITE® screw 2.5 x 8						
DBA	Dummy-plate for D Series panel cut outs						
FDR1	Round panel mounting flange for NC3FDX-EMC-SPEC						
HA-3FXX	Set of 50 female spare contacts for crimp XLR						
HA-3MXX	Set of 50 male spare contacts for crimp XLR						
MFD	M3 mounting frame for D-size chassis						
NDF	dummyPLUG for female XLR chassis connector						
NDM	dummyPLUG for male XLR chassis connector						
SCF	Rubber sealing cap for female XLR receptacles						
SCM	Rubber sealing cap for male XLR receptacles						
SCFDX-TOP	Sealing cover for NC*FDX-TOP						
SCMDX-TOP	Sealing cover for NC*MDX-TOP						
PUSH-ASYM	Asymmetric push for A/AA/B & Combo A Series						
NZP1RU-8	Panel 1RU with 8 D-shape housing cutouts						
NZP1RU-12	Panel 1RU with 12 D-shape housing cutouts						
SCDR	Rear end protection cover for D size chassis connectors						
SCDX	Hinged cover seals D-size chassis connectors, IP42 rated						
SCCD-W	Spring-loaded cover to seals D size chassis connectors, IP65 rated						
SCDP-*	D Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)						
SFAV	Rubber frame for A / B Series to mount between front plate and rear vertical print						





## Definitions, Abbreviations & Useful Information

### ELEMENTS

<b>Ag</b>	Silver
<b>Al</b>	Aluminium
<b>Au</b>	Gold
<b>Co</b>	Cobalt
<b>Cr</b>	Chromium
<b>Cu</b>	Copper
<b>Ni</b>	Nickel
<b>P</b>	Phosphorus
<b>Pb</b>	Lead
<b>Pd</b>	Palladium
<b>Sn</b>	Tin
<b>Zn</b>	Zinc
<b>SS</b>	Stainless Steel

### ALLOYS, PLASTICS, POLYMERS

<b>Brass (Alloy)</b>	CuZn39Pb3
<b>Bronze (Alloy)</b>	CuSn6
<b>Ck 67</b>	Carbon Steel
<b>EPDM</b>	Ethylene Propylene
<b>GR</b>	Glass Reinforced
<b>PA</b>	Polyamide
<b>PBTP</b>	Polybutylene Terephthalate
<b>POM</b>	Polyacetal
<b>PTFE</b>	PolyTetraFluoroEthylene (TEFLON)
<b>PUR</b>	Polyurethane

### MEASUREMENT LEGEND

<b>N</b>	Newton
<b>Ω</b>	Ohm
<b>μ</b>	Micro
<b>OD</b>	Outside Diameter
<b>m</b>	Meter(s)
<b>k</b>	Kilo


### ENGLISH TO METRIC CONVERSIONS



<b>1/8 inch</b>	3.175	millimeters (mm)
<b>1/4 inch</b>	6.35	millimeters (mm)
<b>1 inch</b>	25.4	millimeters (mm)
	2.54 cm	1 inch
<b>1 foot</b>	30.48	centimeters (cm)
	0.305	meter (m)
<b>6 foot</b>	1.828	meters (m)
<b>50 foot</b>	15.24	meters (m)
<b>100 foot</b>	30.48	meters (m)
<b>1000 foot</b>	304.8	meters (m)

### METRIC TO ENGLISH CONVERSIONS

<b>1 centimeter</b>	0.3937	inches
<b>1 meter</b>	39.37	inches
<b>3.281 meter</b>	10	feet
<b>10 meters</b>	32.808	feet
<b>50 meters</b>	164.041	feet
<b>100 meters</b>	328.084	feet

### OTHER ABBREVIATIONS

<b>UL®</b>	Underwriters Laboratories
<b>IP Rating</b>	Ingress Protection rating for objects and water ACC IEC529/EN60529
<b>IEC</b>	International Electrotechnical Commission is the international standards and conformity assessment body for all fields of electrotechnology
	UL Recognized Component Mark

	<b>ENEC</b> – European norms electrical certification, demonstrates compliance with European safety standards.
	<b>VDE</b> Association for Electrical, Electronic and Information Technologies e.V.
<b>AWG</b>	American Wire Gauge

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## Neutrik® Part Number Guide

### NC3FAH1-B-0-D

<b>Packaging:</b>	<b>D</b>	Cable connector: bulk packed
<b>Assembly:</b>	<b>D</b>	Chassis connector: disassembled push latch
<b>Retention:</b>	<b>w/o</b>	Latch lock
	<b>-0</b>	Retention spring
	<b>-DA</b>	Asymmetric PUSH
<b>Shell:</b>	<b>B</b>	Black shell, gold contacts
	<b>BAG</b>	Black shell, silver contacts
<b>Grounding:</b>	<b>0</b>	Separate ground contact connected to shell, male only
	<b>1</b>	Pin 1 & panel & shell connected, no separate ground contact
	<b>2</b>	Separate ground contact connected to shell & panel, separate Pin 1
	<b>E</b>	Additional ground contacts
	<b>w/o number</b>	No ground /shell contact (except 4/5 pole), female only
<b>Termination:</b>	<b>H</b>	Horizontal PCB mount
	<b>HL</b>	Lateral left PCB mount
	<b>HR</b>	Lateral right PCB mount
	<b>L</b>	Solder cups
	<b>V</b>	Vertical PCB mount
	<b>Y</b>	IDC for wires (no ground)
	<b>M3</b>	Mounting holes with M3 thread
	<b>M25</b>	Mounting holes with M2.5 thread
	<b>-</b>	Not applicable
	<b>Series:</b>	<b>A, AA, B, D, DL, DLX, MPR, P, PX, RX, X, XX</b>
<b>Gender:</b>	<b>F</b>	Female
	<b>M</b>	Male
<b>Number of Contacts:</b>	<b>2, 3, 4, 5, 6, 7, 8, 12</b>	
<b>Connector Type:</b>	<b>A</b>	Adapter
	<b>AC</b>	powerCON®
	<b>B</b>	BNC
	<b>C</b>	XLR
	<b>D</b>	dummyPLUG
	<b>E</b>	etherCON® - RJ45
	<b>F</b>	RCA / CINCH
	<b>J (MJ, RJ, SJ)</b>	Jack
	<b>K</b>	Cable Assembly
	<b>L</b>	speakON® - Loudspeaker
	<b>M</b>	Module
	<b>O</b>	opticalCON® - Fiber Optic Connector
	<b>P</b>	Plug
	<b>PP</b>	Patch Panel
	<b>R</b>	Circular Connector
	<b>T</b>	Transformer
	<b>TOP</b>	True Outdoor Protection

Definitions, abbreviations & useful information see page 33.

# Neutrik® Product Line

<p><b>XLR Connectors</b></p>	<p><b>Plugs &amp; Jacks</b></p>	<p><b>speaKON® Connectors</b></p>	<p><b>Data Connectors</b></p>	<p><b>HDMI Cable &amp; Chassis Connectors</b></p>	<p><b>powerCON® Connectors</b></p>	<p><b>Patch Panels</b></p>	<p><b>Accessories</b></p>	<p><b>Digital Audio Network</b></p>
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# NEUTRIK®

The premium brand of the Neutrik Group

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