

## Neutrik® Part Number Guide

### NC3FAH1-B-0-D

<b>Packaging:</b>	<b>D</b>	Cable connector: Bulk packed
	<b>D</b>	Chassis connector: Disassembled Push latch
<b>Assembly:</b>	<b>w/o</b>	Latch Lock
	<b>-0</b>	Retention Spring
<b>Retention:</b>	<b>B</b>	Black shell, gold contacts
	<b>BAG</b>	Black shell, silver contacts
<b>Shell:</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>Grounding:</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>	Verticale 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, BA, D, DL, DLX, MPR, P, PX, RX, X, XX</b>
<b>Termination:</b>	<b>F</b>	Female
	<b>M</b>	Male
<b>Gender:</b>	<b>3, 4, 5, 6, 7, 8, 12</b>	
<b>Number of Contacts:</b>	<b>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>	Dummy Plug
	<b>E</b>	RJ45
	<b>F</b>	RCA / CINCH
	<b>J (MJ, RJ, SJ)</b>	Jack
	<b>K</b>	Cable Assemblies
	<b>L</b>	Loudspeaker
	<b>M</b>	Modules
	<b>O</b>	Fiber Connector
	<b>P</b>	Plugs
	<b>PP</b>	Patch Panel
	<b>R</b>	Circular Connector
	<b>T</b>	Transformer



## XLR Connectors

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## Introduction

The XLR connector series is probably together with the Speakon® series Neutrik's most known product range and has been due to the simple but striking concept one of the most important keys to our great success.

We introduced the first XLR version more than 25 years ago, meanwhile it became the worldwide accepted standard.

XLR connectors are widely used in various applications of the audio and lighting world. Whether microphone connectors, lighting DMX connectors or any other type of sound equipment, the XLR is ubiquitous throughout the entertainment industry.

Key features are:

- Reliable and robust
- Easy to assemble, simple to use
- Excellent cable protection and retention
- Colour coding
- Available in 3 to 7 pole

Our commitment to design and manufacture real world connectors solutions for the entertainment industry has made us the undisputed world leader in XLR connectors.



# XLR Cable Connectors



Ergonomic latch design



Neutrik hologram



Inside view



Circumferential ground shield contact

## XX Series



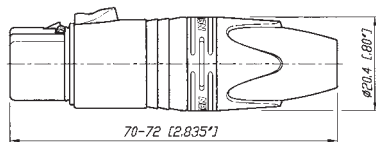
NC3FXX



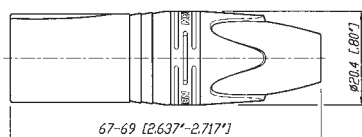
NC6MXX-B

- The next generation of the worldwide accepted standard
- Unique cage type female contact - increases conductivity
- Female contact with "solder stop" for ease 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
- Unique hologram – guarantees genuineness and protects against counterfeits
- Internal thread on shell is well protected against any damage.

### NC\*FXX



### NC\*MXX



\* ... 3 - 7 contacts

## EMC-XLR Series

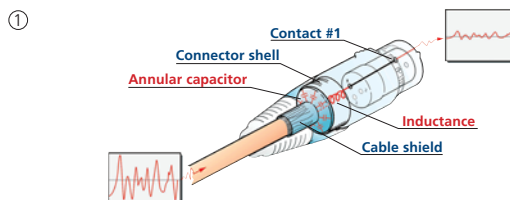


NC3FXX-EMC

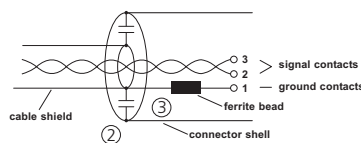


NC3MXX-EMC

- 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
- Patent pending



- 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)



# XLR Cable Connectors



Right angle male connector



High temperatur resistant insulator

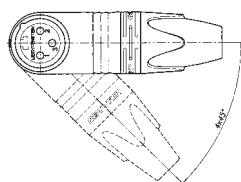


Velour chromium housing

## RX Series



NC3FRX-BAG



Outlet position

- 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

## XX-HE Series



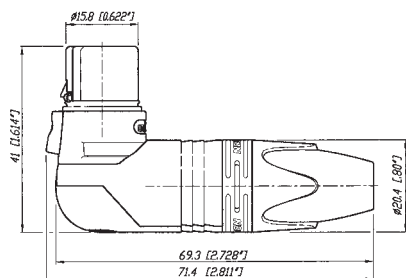
NC3FXX-HE



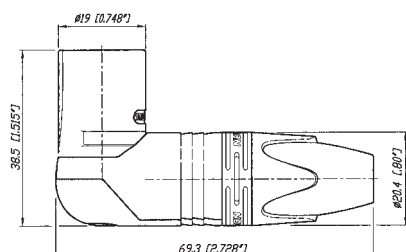
NC3MXX-HE

- Exclusive version of standard XX Series
- Valuable velour chromium plating
- Extra high temperature resistant insulator material
- Machined female contacts
- Flammability UL 94V-0

### NC\*FRX

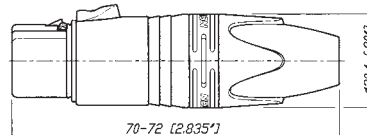


### NC\*MRX

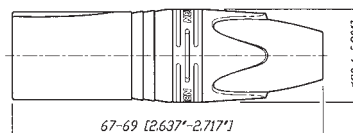


\* ... 3 - 7 contacts

### NC3FXX-HE



### NC3MXX-HE





Large cable outlet

## XX-14 Series

**NEW**



NC3FXX-14

NC3MXX-14-BAG

- 3 pin XX Series with extra large boot
- Accommodates cable O.D. up to 9.6 mm
- Available in bulk pack only

## XX Crimp Series

**NEW**

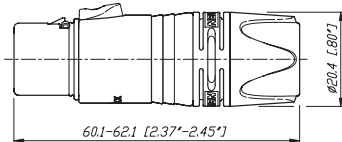


NC3FXX-BAG-HA

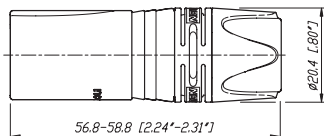
NC3MXX-HA

- 3 pin XX Series with crimp contacts
- Accommodates wire size AWG 26 - 23 or 0.14 – 0.25 mm<sup>2</sup>
- Utilize 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

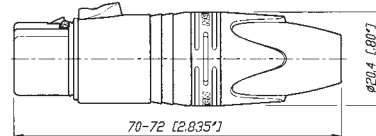
NC3FXX-14



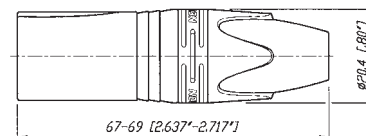
NC3MXX-14



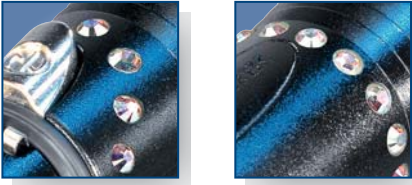
NC3FXX-HA



NC3MXX-HA



# XLR Cable Connectors



Crystal stones



ConvertCon male - female

## XX Crystal XLR

**NEW**



NC3FXX-B-CRYSTAL

NC3MXX-B-CRYSTAL

- XLR XX Series made with CRYSTALLIZED™ – Swarovski Elements
- Fancy, noble, valuable, attractive package - an eye-catcher

## ConvertCon

**NEW**



NC3FM-C-B

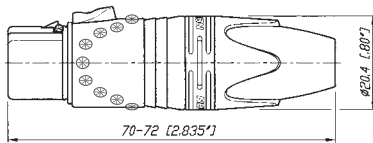
NC3FM-C

- World's first unisex XLR
- Male and female cable connector in one housing
- Easy selectable gender – converted by sliding housing back and forth
- Substitute adapters, ideal as an emergency kit

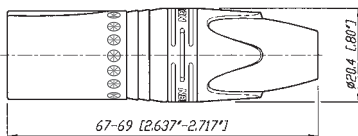


Convert male - female and vice versa

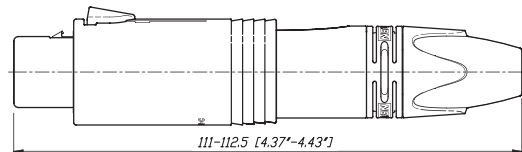
NC3FXX-B-CRYSTAL



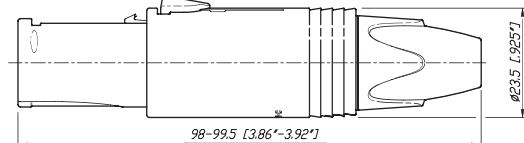
NC3MXX-B-CRYSTAL



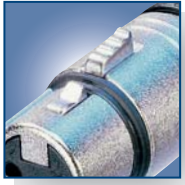
NC3FM-C: Position Female



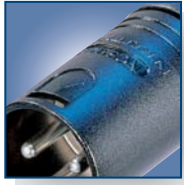
NC3FM-C: Position Male



# XLR Cable Connectors



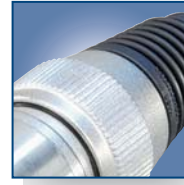
Female locking



Male metal locking window



Rubber sealing protection



Metal bushing


## X Series



NC3FX



NC3MX + BSX-5

- The worldwide accepted XLR connector standard
- Rugged diecast shell
- Compact design (shortest available XLR cable connector)
- Time saving assembly – 4 parts only, no screws
- Neutrik unique chuck type strain relief
- Gold or silver plated contacts
-  UL Recognized components
- Available in 3 - 7 pin configuration

## X-HD Series



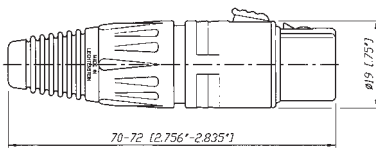
NC5FX-HD



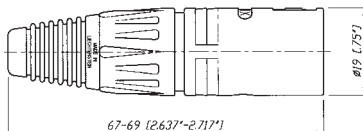
NC4MX-HD

- "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 protected according IP 65 in mated condition
- Available in 3 - 5 pin configuration
- Metal bushing including O-ring

### NC\*FX

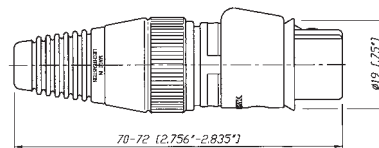


### NC\*MX

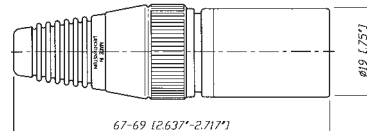


\* ... 3 - 7 contacts

### NC\*FX-HD



### NC\*MX-HD



\* ... 3 - 5 contacts

# XLR Cable Connectors



Coding ring



Switch activating ring



Locking ring

## XCC Series



NC3FXCC

- 3 pole cable connector with a circumferential shield contact for best EMI protection
- Featuring a coaxial ground spring and coaxial hex crimp ferrule at the cable entrance for proper and reliable transition of the cable shield to the shell
- Zebra coding ring to indicate digital AES signals included

## FXS Series



NC3FXS

- FX connector with noiseless ON-OFF switch short-circuiting contacts 2 + 3
- For use on a microphone without switch

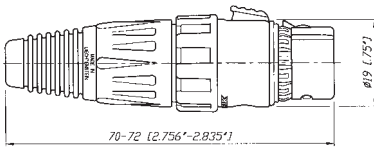
## FX-SPEC Series



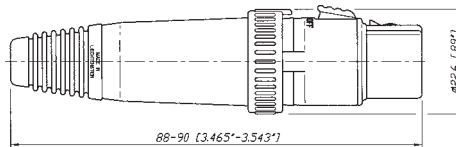
NC3FX-SPEC

- Solid female cable connector with locking ring for highest security of connection
- Uninterrupted EMI protection
- Protects against accidental disconnects
- Thief-proof, grub screw secure connector onto microphone or gooseneck
- Eliminates movement and noise

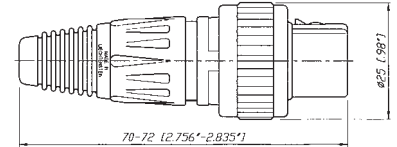
NC3FXCC



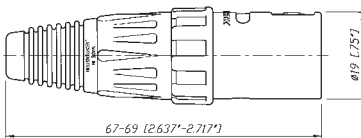
NC3FXS



NC3FX-SPEC



NC3MXCC



Specification		XX & XX-14 & CRYSTAL	EMC Series	X Series	XCC Series	X-HD Series	FXS Series	XX-HE Series	FX-SPEC Series	RX Series	XX Crimp Series	Convert-Con Series
<b>Electrical</b>												
Number of contacts		3 - 7 <sup>1)</sup>	3	3 - 7	3	3 - 5	3	3	3	3 - 7	3	3
Contact resistance	≤ 3 mΩ	●	●	●	●	●	●	●	●	●	●	●
Insulation resistance	- initial:	●	●	●	●	●	●	●	●	●	●	●
	- after damp heat test:	●	●	●	●	●	●	●	●	●	●	●
Dielectric strength	1500 V dc	●	●	●	●	●	●	●	●	●	●	●
Cable shield-shell connection	choosable	●	-	●	-	●	-	●	●	●	●	●
	determined	-	capacitive	-	crimp	-	-	-	-	-	-	-
Shielding effectiveness	> 55 dB @ 1.3 GHz	-	●	-	●	-	-	-	-	-	-	-
Lossy ferrite bead on PIN 1		-	●	-	-	-	-	-	-	-	-	-
Rated current per contact @ 35°C												
	3 pole: 16 A	●	5 A	●	●	●	●	●	●	●	1 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		●	●	●	●	●	●	●	●	●	●	●
Cable O.D. range	3.5 - 8.0 mm	● <sup>2)</sup>	●	●	5.4 - 6.2 mm	●	●	●	●	●	●	●
Max. wire size	3 pole: 2.5 mm <sup>2</sup> / AWG 14	●	AWG 20	●	●	●	●	●	●	●	-	●
	4 pole: 1.5 mm <sup>2</sup> / AWG 16	●	-	●	-	●	-	-	●	●	-	-
	5, 6, 7 pole: 1.0 mm <sup>2</sup> / AWG 18	●	-	●	-	●	-	-	-	●	-	-
Crimp tool:	6.5 mm Hex die (size "E" acc. to IEC 60803)	-	-	-	●	-	-	-	-	-	B-crimp	-
Crimp XX:	0.14 - 0.25 mm <sup>2</sup> / AWG 26 - 23	-	-	-	-	-	-	-	-	-	●	-
<b>Material</b>												
Shell	Zinc diecast (ZnAl4Cu1)	●	●	●	●	-	●	●	●	●	●	●
	(gal Ni or black Cr)	●	gal Ni	-	●	-	●	velour Cr	●	●	●	●
	Stainless steel	-	-	-	-	●	-	-	-	-	-	-
Insert	Polyamide PA 6.6 30% GR	●	●	●	●	●	●	●	●	●	●	●
Contacts	- female 3 pole: Bronze (CuSn8)	●	●	●	●	●	●	●	●	●	●	●
	- female 4 - 7 pole & male: Brass (CuZn39Pb3)	●	●	●	●	●	-	●	-	●	-	-
Contact surface	Silver gal 2 μm Ag	●	Au	●	●	Au	●	●	Au	●	●	●
	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	●	●	●	●	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 HB	●	●	●	●	●	●	V-0	●	●	●	●
Protection class	IP 40	●	●	●	●	IP 65	●	●	●	●	●	●
Solderability complies with IEC	68-2-20	●	●	●	●	●	●	●	●	●	●	●
Manufacturing Standard IEC	61076-2-103	●	●	●	●	●	●	●	●	●	●	●

XX-14, CRYSTAL: <sup>1)</sup> ... 3 pole      <sup>2)</sup> ... Cable O.D. max. 9.6mm

## 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-**-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>XX-EMC Series</b>								
NC3FXX-EMC	NC3MXX-EMC	Nickel	Gold	●	-	-	-	-
NC3FXX-EMC-B	-	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	Gold	●	-	-	-	-
NC3FXX-HA-BAG	NC3MXX-HA-BAG	Black Cr	Silver	●	-	-	-	-
<b>ConvertCon Series</b>								
	NC3FM-C	Nickel	Gold	●	-	-	-	-
	NC3FM-C-B	Black Cr	Gold	●	-	-	-	-
<b>Crystal XLR</b>								
NC3FXX-B-CRYSTAL	NC3MXX-B-CRYSTAL	Black Cr	Gold	●	-	-	-	-
<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	●	-	-	-	-

Detailed information on page 21 and 26.

\* ..... 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



# XLR Chassis Connectors



Colored coding ring



Lateral right PCB mount



Locking release tab



Ground contact tab

## A Series



NC3FAH-0



NC3MAV

- Smallest XLR receptacles, highest packing density
- Plastic housing, steel retention lug
- 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

## AA Series



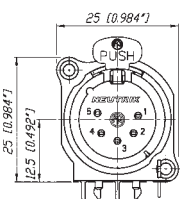
NC3FAAV2



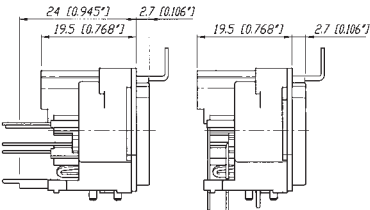
NC3MAAH-1

- 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

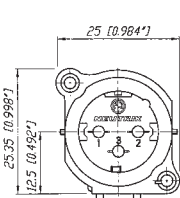
NC5FAV



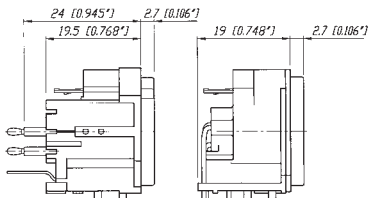
NC5FAH



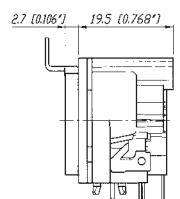
NC3MAV-0



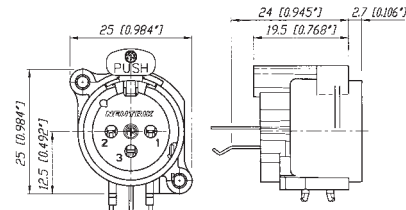
NC5MAH



NC3FAAH



NC3FAAV-0



### Grounding Options (A / AA / B / BA 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:

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

# XLR Chassis Connectors



Circumferential metal ring



Front panel grounding



Tear drop contact design

## B Series



NC3FBV



NC3MBV

- Same as A Series with exception of a metal mounting flange enabling continuous circumferential ground contact to chassis for best EMC and RF protection
- Fastening with B-screw

## BA Series



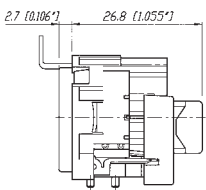
NC3FBAV2



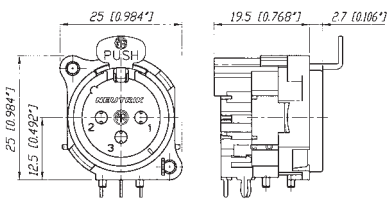
NC3MBAH

- More economical version of B Series with modified metal flange
- Fastening with A-screw
- 3, 4 and 5 pole version

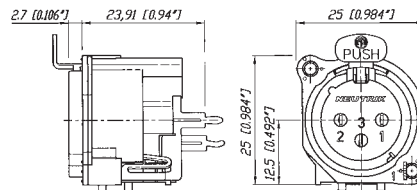
NC3FBY



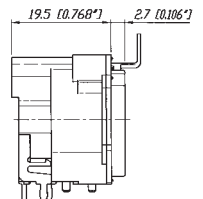
NC3FBH1



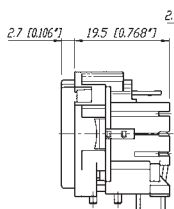
NC3FBAV



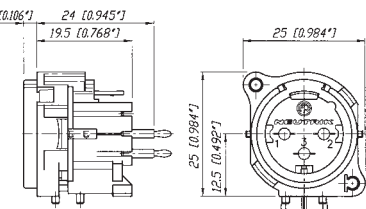
NC3FBAH



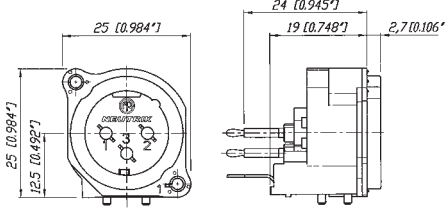
NC3MBH



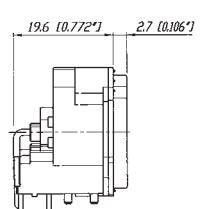
NC3MBV

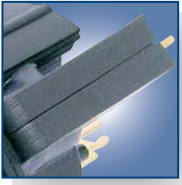


NC3MBAV



NC3MBAH





Incorporated switch



Insert removable



## A/B Series 5-pole switch



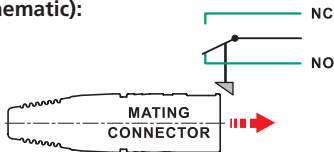
NC5FAV-SW



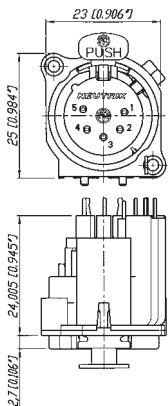
NC5MAV-SW

- A and B Series 5 pole connector with additional switch
- Normally open, normally closed (NO - NC) contact
- Switch activated by mating XLR cable connector
- Available in 5 pole, 3 or 4 pole on request

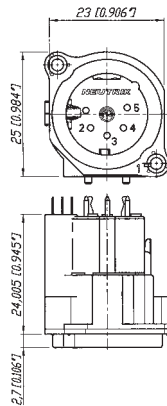
Inserting (Schematic):



NC5FAV-SW



NC5MBV-SW



## D Series



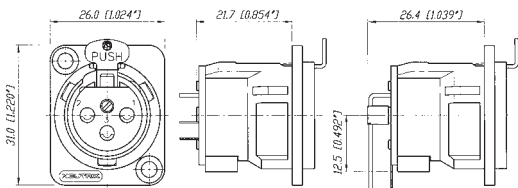
NC3FD-H



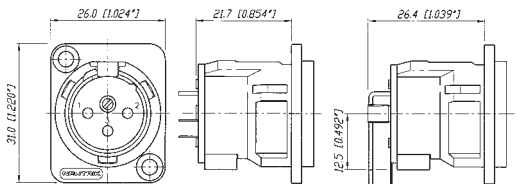
NC3MD-V

- "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
- Special version with screw termination

NC3FD-V / NC3FD-H



NC3MD-V / NC3MD-H





Locking release tab



Horizontal PCB mount



Ground shielding

## DL Series



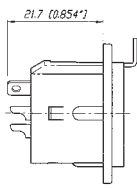
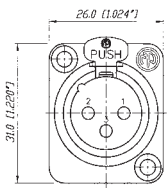
NC3FD-L-1



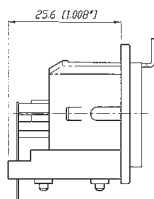
NC4MDM3-H

- Unified "D" metal shell
- Solder cups on 3 - 7 pole version
- Additional PCB mount on 4 and 5 pole
- Front and rear mountable
- High End "-HE" version available with machined female contacts, temperature resistant insulator and valuable velour chromium plating

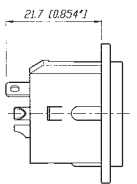
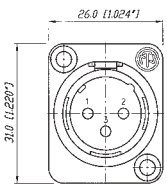
**NC3FD-L-1**



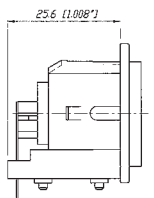
**NC\*FDM3-H**



**NC3MD-L-1**



**NC\*MDM3-H**



\* ... 3 - 5 contacts

## DLX Series



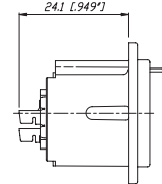
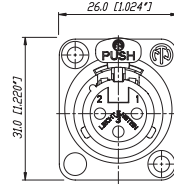
NC3FD-LX-HE



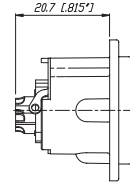
NC5MD-LX

- Next generation of the popular DL Series with greater functionality
- All metal housing works in combination with a new duplex ground contact yielding the best RF protection and ground conductivity in a chassis mount XLR
- Male connector's retention bar replaces plastic design with all metal version
- Unique cage type female contacts on 3 pole version for increased conductivity
- Machined male and female contacts on four to seven pin versions
- D-style housing provides installation compatibility with industry standard D mounting dimensions

**NC3FD-LX**



**NC\*MD-LX**



\* ... 3 - 7 contacts





Crimp type contact



Circumferential ground spring

## DLX Crimp Series

## EMC Series

**NEW**



NC3FD-LX-HA



NC3MD-LX-BAG-HA



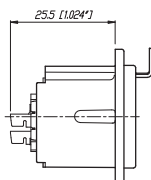
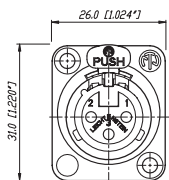
NC3FDX-EMC-SPEC

- 3 pole DLX Series with crimp contacts
- Accommodates wire size AWG 26 - 23 or 0.14 – 0.25 mm<sup>2</sup>
- Utilize 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

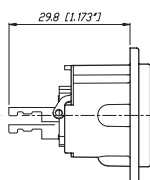
- 3 pole female XLR chassis connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact on female connector ensures best possible shielding and chassis contact
- D flange chassis for panel mount applications
- Includes the locking nut of 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 9 - EMC cable-connector.

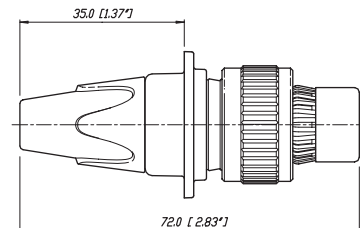
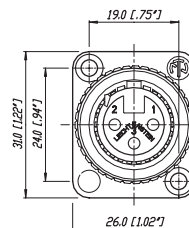
NC3FD-LX-HA



NC3MD-LX-HA



NC3FDX-EMC-SPEC





Sealing Gasket



Through hole fastening



## MPR-HD Series



NC3MPR-HD



NC5MPR-HD

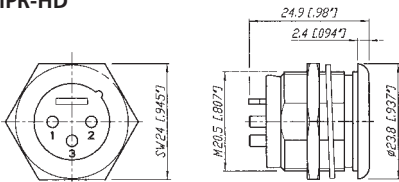
- IP 65 - in combination with NC\*FX-HD cable connectors
- Perfect for outdoor applications
- Sealing gasket for water tight panel mount
- Gold plated contacts



NC5MPR-HD

NC5FX-HD

NC3MPR-HD



\* ... 3 - 5 contacts

## P Series



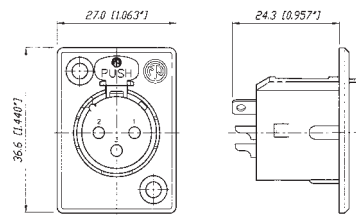
NC3FP-1



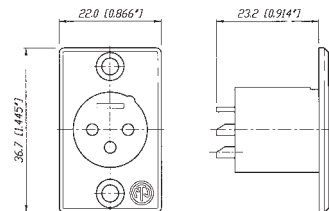
NC6MP-B

- Smallest available traditional style hard wiring receptacles with large solder cups
- Compatible with Switchcraft DxM, DxM; Cannon XLRx31, XLRx32
- 6 pole version available with Switchcraft contact arrangement (NC6FSP-1, NC6MSP)

NC3FP-1



NC3MP





Front end design



Solder termination

## Combo Series



NCJ9FI-V



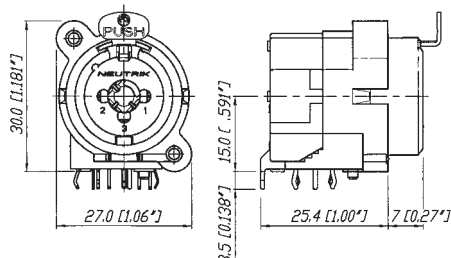
NCJ10FI-S

- 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 mounting or hard wire soldering
- Fully normalised
- 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)
- Front dimension: 30 x 27 mm



XLR receptacle or 1/4" phone jack

NCJ10FI-H





Horizontal PCB mount



Vertical PCB mount



Hologram

## Combo A Series

**NEW**



NCJ6FA-V



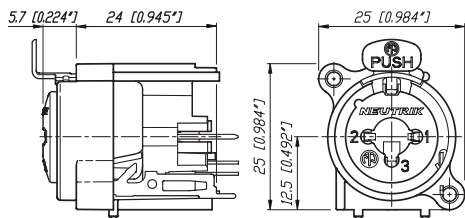
NCJ6FA-H-0



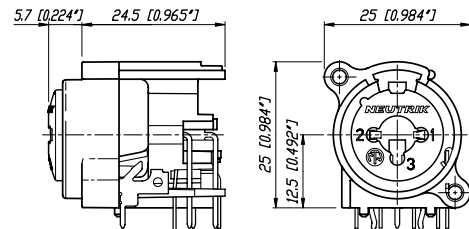
NCJ6FA-V-0

- 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
- Branded with unique hologram - guarantees genuine and authentic Neutrik product

NCJ6FA-V



NCJ6FA-H



## 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
<b>XLR Cable Connectors</b>											
BSX-*	Coloured bushing for X Series										
BXX-*	Coloured bushing for XX Series										
XCR-*	Coloured coding ring for X Series										
XXR-*	Coloured coding ring for XX Series										
<b>XLR Chassis Connectors</b>											
ACRF-*	Coloured ring for female 4 + 5 pole A Series and 3 pole BA Series										
ACRM-*	Coloured ring for male 4 + 5 pole A Series and 3 pole BA Series										
DSS-*	Lettering plate for D Series										

## Accessories

### XLR Cable Connectors



BXX-CR	Bushing with translucent coding ring
XCCR	Coding ring for X Series digital signals
XXCR	Translucent coding ring for XX Series for XX Series

### XLR Chassis Connectors



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	Dummy plug for female XLR chassis connector
NDM	Dummy plug for male XLR chassis connectors
SC*	Rubber sealing cap for female and male XLR receptacles



SCD*	Rubber sealing cover for female and male D Series
SCDR	Rear end protection cover for D-size chassis connectors
SCDX	Hinged cover seals D-size chassis connectors, IP42 rated
SFAV	Rubber frame for A / B Series to mount between front plate and rear vertical print

## Specification

A   AA   B   BA   D   DL/DLX   DLX   MPR-HD   P   Combo   A  
Series   Series   Series   Series   Series   Series   Crimp   Series   Series   Series   Combo

### Electrical

Number of contacts		3 - 5	3	3 - 5	3	3	3 - 7	3	3 - 5	3 - 7 (6**)	5 - 10	3 / 3
Contact resistance	≤ 6 mΩ	●	●	●	●	●	●	●	●	●	●	●
Insulation resistance	- initial:	●	●	●	●	●	●	●	●	●	●	●
	- after damp heat test:	●	●	●	●	●	●	●	●	●	●	●
Dielectric strength	1500 V dc	●	●	●	●	●	●	●	●	●	●	●
Rated voltage	50 V ac	●	●	●	●	●	●	●	●	●	●	●
Rated current per contact	3 pole: 6 A	●	●	●	●	●	16 A	1 A	16 A	16 A	-	3 A
	4 pole: 6 A	●	-	●	-	-	10 A	-	10 A	10 A	-	-
	5, 6 pole: 3 A	●	-	●	-	-	7.5 A	-	7.5 A	7.5 A	-	-
	7 pole: 5 A	-	-	-	-	-	●	-	-	●	-	-
	Combo XLR + Jack contact	7.5 A	-	-	-	-	-	-	-	-	-	●
Capacitance between contacts	3 pole: ≤ 7 pF	●	●	●	●	-	≤ 4 pF	≤ 4 pF	≤ 4 pF	≤ 4 pF	≤ 2 pF	≤ 2 pF
	4, 5, 6 pole: ≤ 7 pF	●	-	●	-	-	●	-	●	●	-	-
	7 pole: ≤ 9 pF	-	-	-	-	-	●	-	-	●	-	-
			-	-	-	-	-	-	-	-	-	-

### Mechanical

Lifetime > 1'000 mating cycles		●	●	●	●	●	●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	●	●	●	●	●	●
Retention method	- standard: latch lock	●	●	●	●	●	●	●	●	●	● (XLR)	● (XLR)
	- "0" Version: ≥ 20 N separating force	●	●	●	●	●	●	●	●	●	● 25 N	● 25 N

### Material

Insert	Polyamide	PA 6.6 30% GR	●	●	●	●	●	●	●	●	●	●
Shell	Zinc diecast	ZnAl4Cu1	-	-	-	-	●	●	●	●	-	-
		(gal Ni or black Cr plated)	-	-	-	-	●	●	●	Ni plated	●	-
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		-	-	-	-	●	●	●	Au	●	-
Latch lock & spring		Ck 67 steel, treated	●	●	●	●	●	●	●	-	●	●

### Environmental

Operating temperature	-30°C to +80°C	●	●	●	●	●	●	●	●	●	●	●
Protection class	IP 40	●	●	●	●	●	●	●	IP 65	●	●	●
Flammability	UL 94 HB	●	●	●	-	●	●	●	●	●	●	●
	UL 94 V-0	3 pole	-	3 pole	●	-	-	-	-	-	-	-
Solderability complies with IEC	68-2-20	●	●	●	●	●	●	●	●	●	●	●
Mounting screw		A	A	1)	A	-	-	-	-	-	A	A
Colour coding		ACR-*	-	-	ACR-*	DSS	DSS	DSS	-	-	-	-

(4 + 5 pole only)

1) .... B Series 3 pole connectors > B-screw, 4 & 5 pole versions > A-screw

\*\* .... P Series male 3 - 6 pole



## Ordering Information for Receptacles

Female	Male	Shell	Contact	3 pole	4 pole	5 pole	Female	Male	Shell	Contact	3 pole
A Series							AA Series				
NC*FAH-D		Black Plastic	Gold	-	● <sup>⓪</sup>	● <sup>⓪</sup>	NC3FAAH	NC3MAAH	Black Plastic	Gold	●
	NC*MAH	Black Plastic	Gold	●	●	●	NC3FAAH-0		Black Plastic	Gold	●
NC*FAH-0		Black Plastic	Gold	●	● <sup>⓪</sup>	● <sup>⓪</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	NC3MAH-1	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>⓪</sup>	● <sup>⓪</sup>					
	NC*MAV	Black Plastic	Gold	●	●	●					
NC*FAV-0		Black Plastic	Gold	●	● <sup>⓪</sup>	● <sup>⓪</sup>					
	NC3MAV-0	Black Plastic	Gold	●	-	-					
NC3FAV1-D	NC3MAV-1	Black Plastic	Gold	●	-	-					
NC3FAV1-0		Black Plastic	Gold	●	-	-					
NC3FAV2-D		Black Plastic	Gold	●	-	-					
NC3FAV2-0		Black Plastic	Gold	●	-	-					
NC3FAY-D	NC3MAY	Black Plastic	Gold	●	-	-					
NC3FAY-0		Black Plastic	Gold	●	-	-					
NC5FAV-SW-D	NC5MAV-SW	Black Plastic	Gold	-	-	●					

A Series - D version come with disassembled Push latch, version with assembled latch omit -D.

AA Series comes with Push Latch assembled.

A / AA Series rear mount only, all PCB mount except Y version = IDC

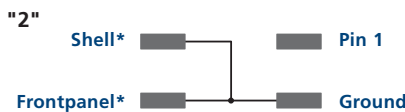
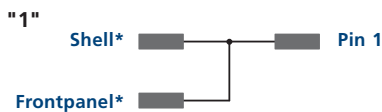
⓪... Grounding Option "2"

0... Retention Spring

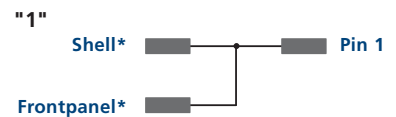
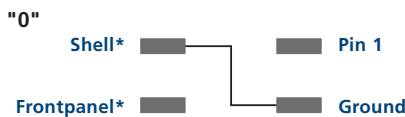
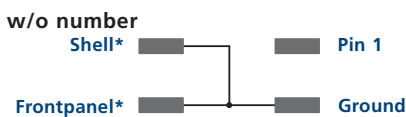
## Grounding Options

### A / AA Series and B / BA Series

#### Female



#### Male



Shell\* ... Contact to shell of mating connector

Frontpanel\* ... Connection to frontpanel by fastening screw

## Ordering Information for Receptacles

Female	Male	Flange	Contact	3 pole	Female	Male	Flange	Contact	3 pole	4 pole	5 pole
B Series					BA Series						
	NC*MBH	Metal	Gold	●	NC3FBAH1-D		Metal	Gold	●	-	-
	NC*MBH-B	Black Metal	Gold	●		NC3MBAH	Metal	Gold	●	-	-
	NC*MBH-M25	Black Metal	Gold	●	NC3FBAH1-0		Metal	Gold	●	-	-
	NC*MBH-B-M25	Black Metal	Gold	●		NC3MBAH-0	Metal	Gold	●	-	-
NC3FBH1-D		Metal	Gold	●	NC3FBAH2-D		Metal	Gold	●	-	-
NC3FBH1-B-D		Black Metal	Gold	●		NC3MBAH-1	Metal	Gold	●	-	-
NC3FBH1-M25		Metal	Gold	●	NC3FBAH2-0		Metal	Gold	●	-	-
NC3FBHL1-D		Metal	Gold	●	NC3FBAV1-D		Metal	Gold	●	-	-
	NC3MBHL	Metal	Gold	●		NC3MBAV	Metal	Gold	●	-	-
NC3FBHR1-D		Metal	Gold	●		NC3MBAV-0	Metal	Gold	●	-	-
NC3FBH2-D		Metal	Gold	●	NC3FBAV2-D		Metal	Gold	●	-	-
NC3FBH2-B-D		Black Metal	Gold	●		NC3MBAV-1	Metal	Gold	●	-	-
NC3FBHR2-D		Metal	Gold	●	NC3FBAV2-0		Metal	Gold	●	-	-
	NC3MBHR	Metal	Gold	●		NC*FBH-D	Metal	Gold	-	●	●
	NC*MBV	Metal	Gold	●			NC*MBH	Metal	Gold	-	●
	NC*MBV-B	Black Metal	Gold	●		NC*FBH-B-D	Black Metal	Gold	-	●	●
	NC*MBV-M25	Metal	Gold	●			NC*MBH-B	Black Metal	Gold	-	●
	NC*MBV-B-M25	Metal	Gold	●		NC*FBV-D	Metal	Gold	-	●	●
NC3FBV1-D		Metal	Gold	●			NC*MBV	Metal	Gold	-	●
NC3FBV1-B-D		Black Metal	Gold	●		NC*FBV-B-D	Black Metal	Gold	-	●	●
NC3FBV1-M25		Metal	Gold	●			NC*MBV-B	Black Metal	Gold	-	●
NC3FBV2-D		Metal	Gold	●		NC5FBV-SW-D	NC5MBV-SW	Metal	Gold	-	●
NC3FBV2-B-D		Black Metal	Gold	●							
NC3FBY-D	NC3MBY	Metal	Gold	●							
NC3FBY-B-D	NC3MBY-B	Black Metal	Gold	●							
NC3FBH1-E-D	NC3MBV-E	Metal	Gold	●							
NC3FBH2-E-D		Metal	Gold	●							
	NC3MBH-E	Metal	Gold	●							

B / BA Series - D version come with disassembled Push latch, version with assembled latch omit -D.

B / BA Series rear mount only, all PCB mount except Y version = IDC



## Ordering Information for Receptacle

Female      Male      Shell    Contact    3 4 5 6 7  
pole pole pole pole 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-D	NC3MDM3-H	Nickel	Silver	●	-	-	-	-
NC3FDM3-H-B-D	NC3MDM3-H-B	Black Cr	Gold	●	-	-	-	-
NC3FDM3-H-BAG-D	NC3MDM3-H-BAG	Black Cr	Gold	●	-	-	-	-

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

### 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	●	-	-	-	-

### DLX Crimp Series

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

### EMC XLR

NC3FDX-EMC-SPEC	Black Cr	Gold	●	-	-	-	-
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### Accessories

FDR-1	Black round panel mounting flange with screws for larger panel cut-outs
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Female      Male      Shell    Contact    3 4 5 6 7  
pole pole pole pole pole

### P Series

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	NC*MP-BAG	Black Cr	Silver	●	●	●	●	-

### MPR-HD Series

-	NC*MPR-HD	Nickel	Gold	●	●	●	-	-
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### Combo A Series

						5	6	9	10
						<small>pole</small>	<small>pole</small>	<small>pole</small>	<small>pole</small>
NCJ6FA-H	Black plastic	Gold	-	●	-	-	-	-	-
NCJ6FA-H-0	Black plastic	Gold	-	●	-	-	-	-	-
NCJ6FA-V	Black plastic	Gold	-	●	-	-	-	-	-
NCJ6FA-V-0	Black plastic	Gold	-	●	-	-	-	-	-

### Combo Series

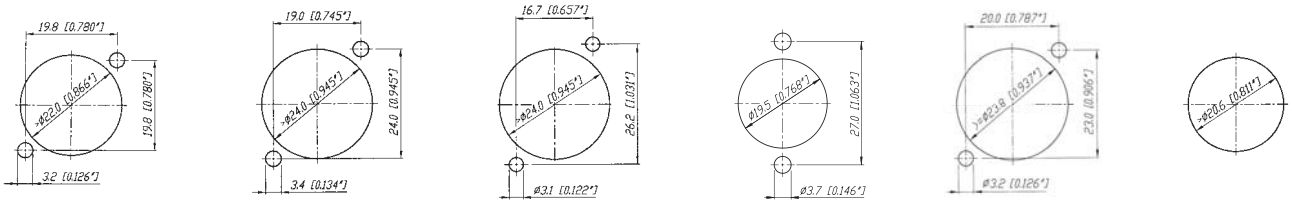
NCJ*FI-H	Black plastic	Gold	●	●	●	●	●	●	●
NCJ*FI-H-0	Black plastic	Gold	●	●	●	●	●	●	●
NCJ*FI-S	Black plastic	Gold	●	●	●	●	●	●	●
NCJ*FI-S-0	Black plastic	Gold	●	●	●	●	●	●	●
NCJ*FI-V	Black plastic	Gold	●	●	●	●	●	●	●
NCJ*FI-V-0	Black plastic	Gold	●	●	●	●	●	●	●

### Contact #

	<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

## Panel Cutouts

A / AA / B / BA Series    D / DL / DLX Series    P Series Female    P Series Male    Combo    MPR Series



## Assembly Tools

**HTXP** Hand tool to tighten the XX and PX-bushing

**BTXX** Assembly fixture to tightening the XX-bushing



**HX-R-BNC** Crimp tool for XCC Series

**DIE-R-BNC-PT** Crimp die for XCC Series (6.5 mm HEX)



**HX-R-HA** Hand crimp tool incl. dies & locator for Crimp XLR

