

Neutrik® Part Number Guide

NC3FAH1-B-0-D

Packaging:	D	Cable connector: Bulk packed
Assembly:	D	Chassis connector: Disassembled Push latch
Retention:	w/o	Latch Lock
	-0	Retention Spring
Shell:	B	Black shell, gold contacts
	BAG	Black shell, silver contacts
Grounding:	0	Separate ground contact connected to shell, male only
	1	Pin 1 & Panel & Shell connected, no separate ground contact
	2	Separate ground contact connected to shell & panel, separate Pin 1
	E	Additional ground contacts
	w/o number	No ground / Shell contact (except 4 / 5 pole), female only
Termination:	H	Horizontal PCB mount
	HL	Lateral left PCB mount
	HR	Lateral right PCB mount
	L	Solder Cups
	V	Verticale PCB mount
	Y	IDC for wires (no ground)
	M3	Mounting holes with M3 thread
	M25	Mounting holes with M2.5 thread
	-	Not applicable
Series:	A, AA, B, BA, D, DL, DLX, MPR, P, PX, RX, X, XX	
Gender:	F	Female
	M	Male
Number of Contacts:	3, 4, 5, 6, 7, 8, 12	
Connector Type:	A	Adapter
	AC	PowerCon®
	B	BNC
	C	XLR
	E	RJ45
	F	RCA / CINCH
	J (MJ, RJ, SJ)	Jack
	K	Cable Assemblies
	L	Loudspeaker
	M	Modules
	O	Fiber Connector
	P	Plugs
	PP	Patch Panel
	R	Circular Connector
	T	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 professional audio world. Whether as microphone connector, on lighting applications or any kind of sound equipment, the XLR is all over the entertainment industry.

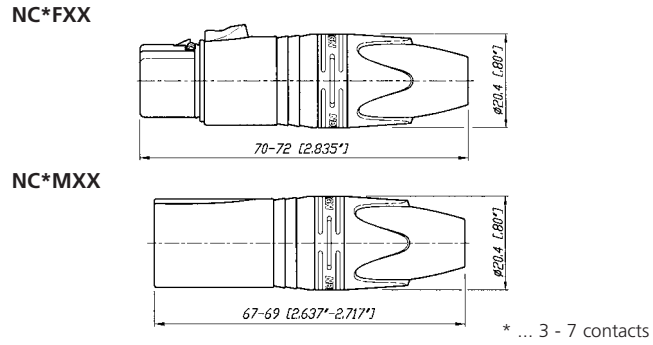
- Key features are:
- Reliable and robust
  - Easy to assemble, simple to use
  - Excellent cable protection and retention
  - Colour coding
  - Available in 3 to 7 pole
- The reason for the outstanding success of the series is in accompany with these features a constant and peerless quality.



XX Series



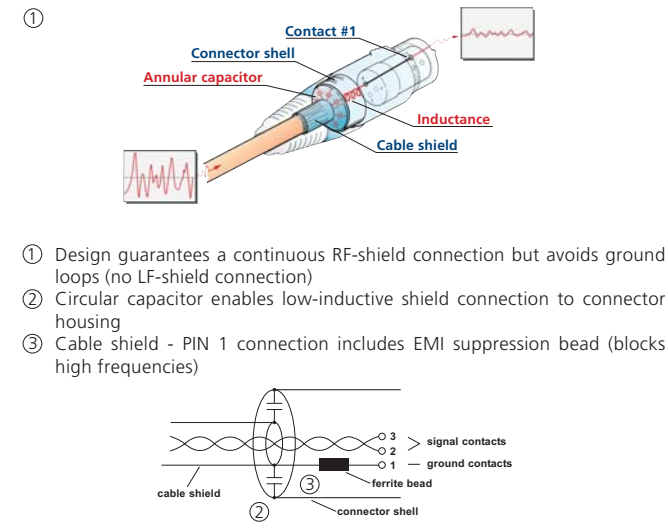
- The next generation of the worldwide accepted standard
- Unique cage type female contact - increases conductivity
- Female contact with "solder stop" for ease soldering
- Male connector without locking "window" - more stringent housing, increases durability
- Improved chuck type strain relief - increases 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



EMC-XLR 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
- Patent pending





Right angle male connector



High temperature resistant insulator



Velour chromium housing

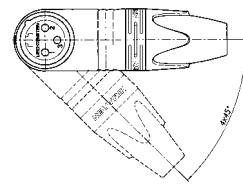


Large cable outlet

## 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

## XX-14 Series



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

## Crimp XLR Series



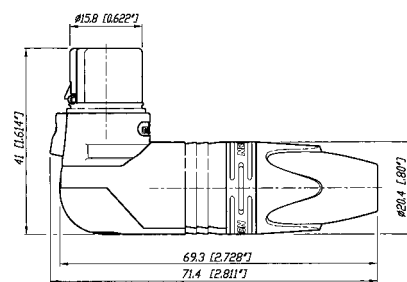
NC3FXX-BAG-HA



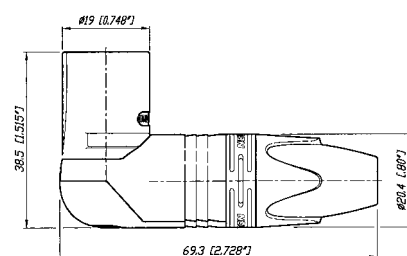
NC3MXX-HA

- 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
- Deal solution for field and on-site termination

### NC\*FRX

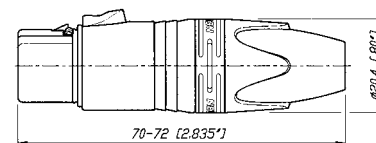


### NC\*MRX

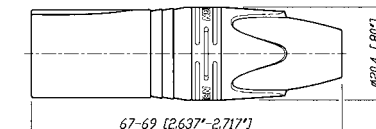


\* ... 3 - 7 contacts

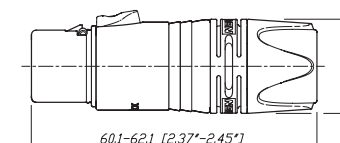
### NC3FXX-HE



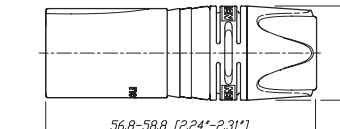
### NC3MXX-HE



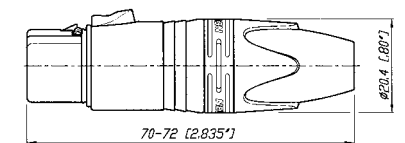
### NC3FXX-14



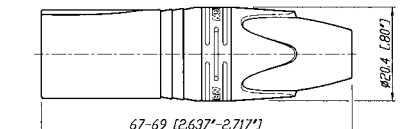
### NC3MXX-14



### NC3FXX-HA

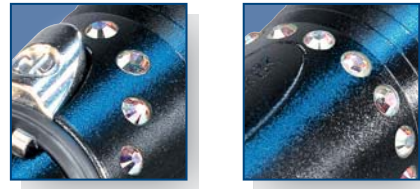


### NC3MXX-HA

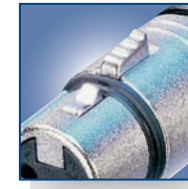




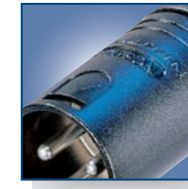
ConvertCon male - female



Crystal stones



Female locking



Male metal locking window



Rubber sealing protection



Metal bushing

## ConvertCon

## Crystal XLR

## X Series

## X-HD Series

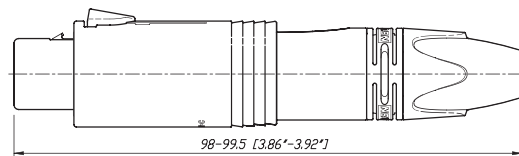


- World's first unisex XLR
- Male and female cable connector in one housing
- Easy selectable gender – converted by sliding housing back and forth
- Substitute adapters, ideal as an emergency kit

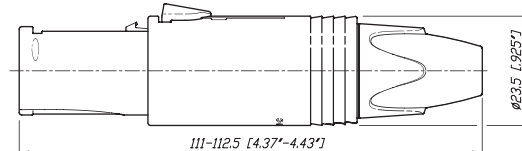


Convert male - female and vice versa

NC3FM-C: Position Female

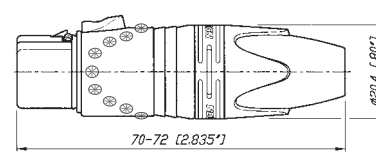


NC3FM-C: Position Male

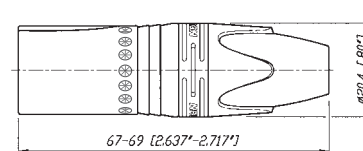


- XLR XX Series made with CRYSTALLIZED™ – Swarovski Elements
- Fancy, noble, valuable, attractive package - an eye-catcher

NC3FXX-B-CRYSTAL



NC3MXX-B-CRYSTAL

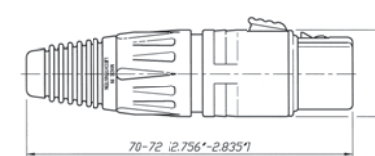


NC3FX

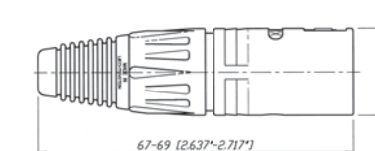
NC3MX + BSX-5

- 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

NC\*FX



NC\*MX



\* ... 3 - 7 contacts

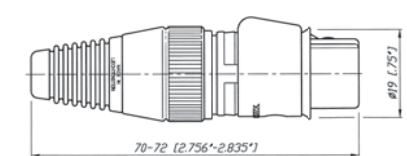


NC5FX-HD

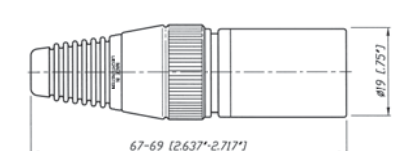
NC4MX-HD

- "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-HD



NC\*MX-HD



\* ... 3 - 5 contacts





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**

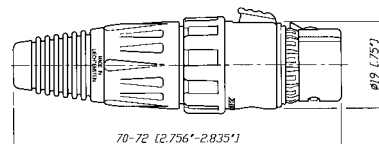
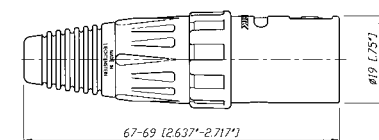
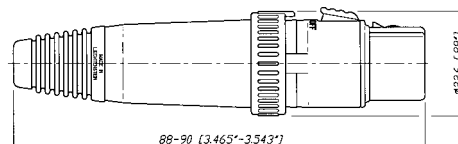
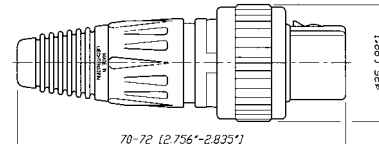
NC3FXS

- 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
- Protect against accidental disconnects
- Thief-proof, grub screw secure connector onto microphone or gooseneck
- Avoids movements and noises

**NC3FXCC****NC3MXCC****NC3FXS****NC3FX-SPEC****Specification****Electrical**

	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
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:	> 2 GΩ	•	•	•	•	•	•	•	•	•	•
- after damp heat test:	> 1 GΩ	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•

**Mechanical**

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 mm² / AWG 14	•	AWG 20	•	•	•	•	•	•	•	•
	4 pole: 1.5 mm² / AWG 16	•	-	•	-	•	-	•	•	-	-
	5, 6, 7 pole: 1.0 mm² / AWG 18	•	-	•	-	•	-	•	•	-	-
Crimp tool:	6.5 mm Hex die (size "E" acc. to IEC 60803)	-	-	-	•	-	-	-	-	B-crimp	-
Crimp XX:	0.14 - 0.25 mm² / AWG 26 - 23	-	-	-	-	-	-	-	-	•	-

**Material**

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)	-	-	-	-	-	-	•	-	-	-

**Environmental**

Operating temperature	-30°C to +80°C	•	•	•	•	•	•	•	•	•	•
Flammability	UL 94 HB	•	•	•	•	•	•	•	•	•	•
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	•	-	-	-	-
<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	•	-	-	-	-

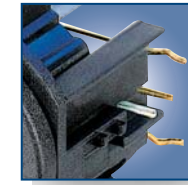
## Accessories and Assembly Tools

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



Colored coding ring



Lateral right PCB mount



Locking release tab



Ground contact

## A Series



NC3FAH1



NC3MAHR

- Smallest XLR receptacles, highest packing density
- Plastic housing, steel retention lug
- Fork type female contacts
- Polished contact areas and hard gold plating
- Various grounding options

## AA Series

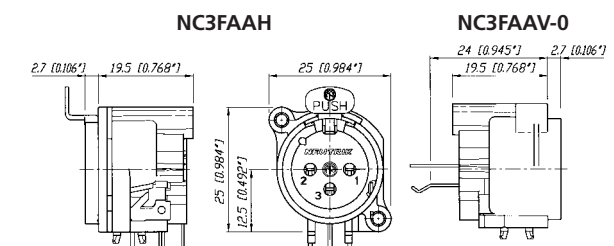
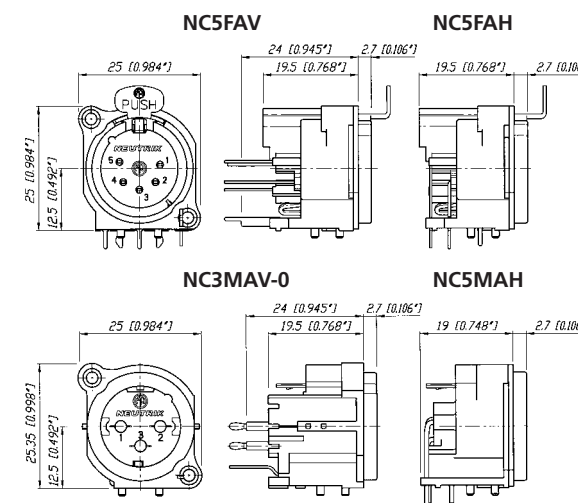


NC3FAAV2



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



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

- 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)



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

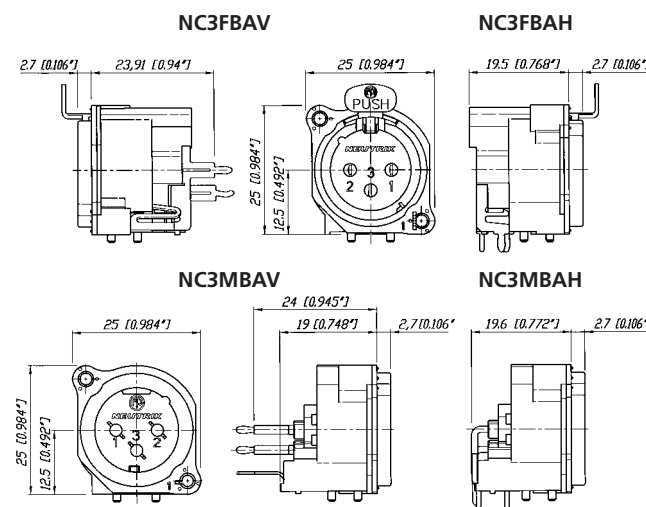
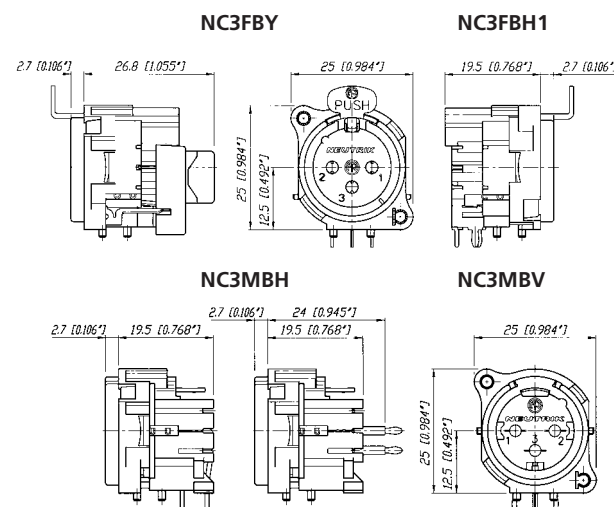


NC3FBAV2



NC3MBAH

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



Incorporated switch



Insert removable



## A/B Series 5-pole switch



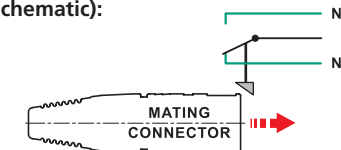
NC5FAV-SW



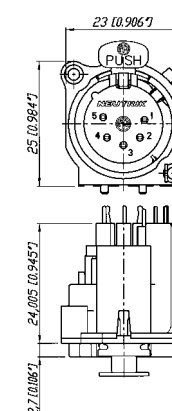
NC5MAV-SW

- 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

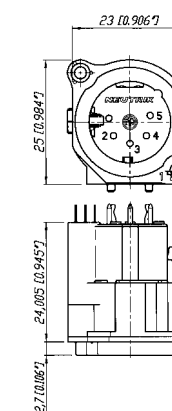
Inserting (Schematic):



NC5FAV-SW



NC5MAV-SW



## D Series



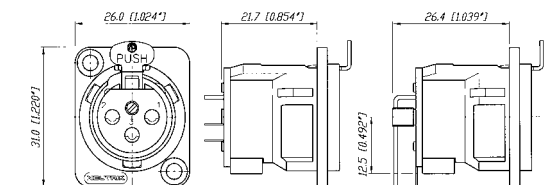
NC3FD-H



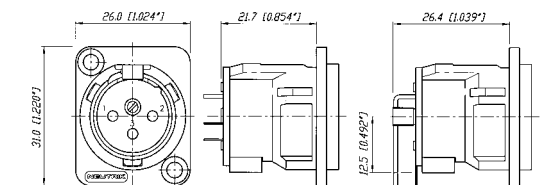
NC3MD-V

- "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



Crimp type contact



Circumferential ground spring

## DL Series



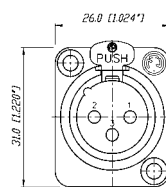
NC3FD-L-1



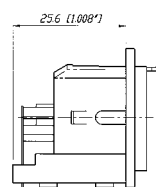
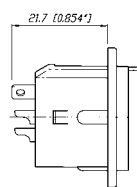
NC4MDM3-H

- 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

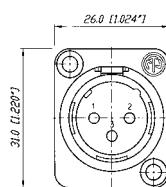
NC3FD-L-1



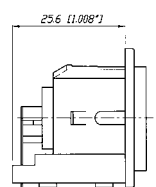
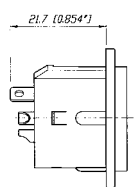
NC\*FDM3-H



NC3MD-L-1



NC\*MDM3-H



\* ... 3 - 5 contacts

## DLX Series



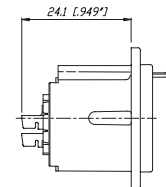
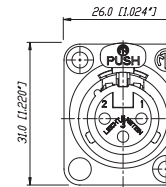
NC3FD-LX-HE



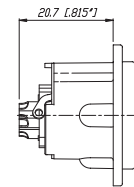
NC5MD-LX

- 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

## DLX Crimp Series

NEW



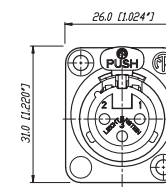
NC3FD-LX-HA



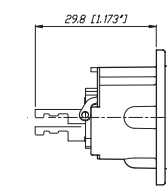
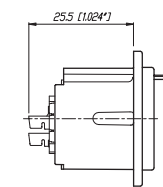
NC3MD-LX-BAG-HA

- 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
- Deal solution for field and on-site termination

NC3FD-LX-HA



NC3MD-LX-HA



## EMC Series

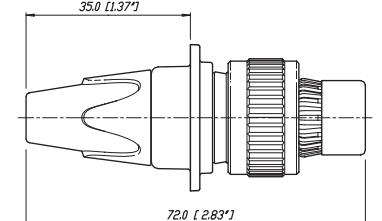
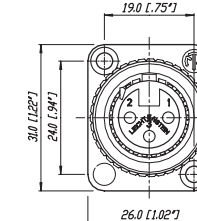


NC3FDX-EMC-SPEC

- 3 pole female XLR chassis connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact 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.

NC3FDX-EMC-SPEC







Sealing Gasket



Through hole fastening



Front end design



Solder termination

## MPR-HD Series



NC3MPR-HD



NC5MPR-HD

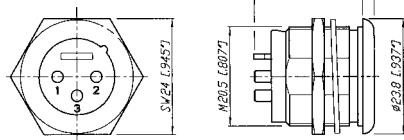
- IP 65 - in combination with NC\*FX-HD cable connectors
- Perfect for outdoor applications
- Sealing gasket for water tight panel mount
- Gold plated contacts



NC5MPR-HD

NC5FX-HD

NC3MPR-HD



\* ... 3 - 5 contacts

## P Series



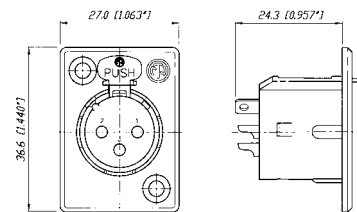
NC3FP-1



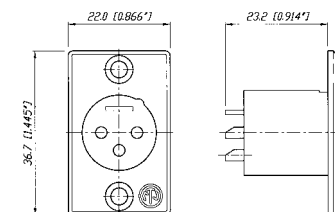
NC6MP-B

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

NC3FP-1



NC3MP



## Combo Series



NCJ9FI-V



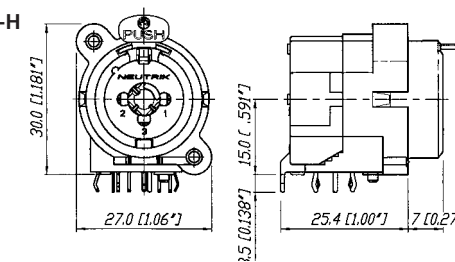
NCJ10FI-S

- 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

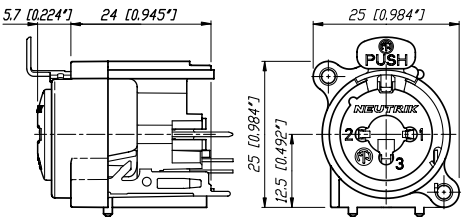
NEW



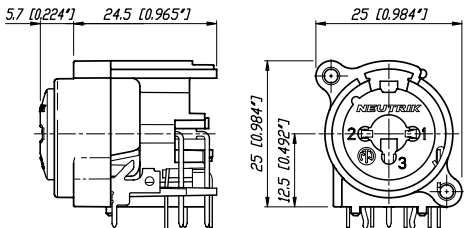
NCJ6FA-V    NCJ6FA-H-O    NCJ6FA-V-O

- 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
XLR Cable Connectors											
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										
XLR Chassis Connectors											
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

<b>XLR Cable Connectors</b>		
XXCR	Translucent coding ring for XX Series	 Example
BXX-CR	Bushing with translucent coding ring for XX Series	
XCCR	Coding ring for X Series digital signals	
<b>XLR Chassis Connectors</b>		
DBA	Dummy-plate for D Series panel cut outs	
SC *	Rubber sealing cap for female and male XLR receptacles	 SCF    SCM
SCD *	Rubber sealing cover for female and male D Series	 SCDF    SCDM
SCDR	Rear end protection cover for D-size chassis connectors	 Example
SCDX	Hinged cover seals D-size chassis connectors, IP54 rated	 Example
SFAV	Rubber frame for A / B Series to mount between front plate and rear vertical print	 Example
A-Screw-1-8	Plastite® screw 2.9 x 8	
B-Screw-1-8	TAPTITE® screw 2.5 x 8	



Specification	A Series	AA Series	B Series	BA Series	D Series	DL/DLX Series	DLX Crimp	MPR-HD Series	P Series	Combo Series	A 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	≤ 5 mΩ	•	≤ 8 mΩ	•	•	•	•	•	•	≤10 mΩ	≤10 mΩ
Insulation resistance - initial:	> 2 GΩ	•	•	•	•	•	•	•	•	•	•
- after damp heat test:	> 1 GΩ	•	•	•	•	•	•	•	•	>500 MΩ	•
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	•	•	•	•	•	•	•	•	•25 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	-	-	-	-

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	pole-3 pole
A Series							AA Series				
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	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>①</sup>	• <sup>①</sup>					
	NC*MAV	Black Plastic	Gold	•	•	•					
NC*FAV-0		Black Plastic	Gold	•	• <sup>①</sup>	• <sup>①</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

①... Grounding Option "2"

0... Retention Spring

## Grounding Options

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

#### Female

"1"



"2"



#### Male

w/o number



"0"



"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	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	●	-	-
NC3FBH2-M25		Metal	Gold	●	NC3FBAV1-D		Metal	Gold	●	-	-
NC3FBHL1-D		Metal	Gold	●		NC3MBAV	Metal	Gold	●	-	-
	NC3MBHL	Metal	Gold	●		NC3MBAV-0	Metal	Gold	●	-	-
NC3FBHR1-D		Metal	Gold	●	NC3FBAV2-D		Metal	Gold	●	-	-
NC3FBH2-D		Metal	Gold	●		NC3MBAV-1	Metal	Gold	●	-	-
NC3FBH2-B-D		Black Metal	Gold	●	NC3FBAV2-0		Metal	Gold	●	-	-
NC3FBHR2-D		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	●	B / BA Series - D version come with disassembled Push latch, version with assembled latch omit -D.						
NC3FBH1-E-D	NC3MBV-E	Metal	Gold	●							
NC3FBH2-E-D		Metal	Gold	●	B / BA Series rear mount only, all PCB mount except Y version = IDC						
	NC3MBH-E	Metal	Gold	●							

Ordering Information for Receptacle

Female	Male	Shell	Contact	3	4	5	6	7	Female	Male	Shell	Contact	3	4	5	6	7			
pole pole pole pole pole									pole pole pole pole pole											
D Series									P Series											
NC3FD-V	NC3MD-V	Nickel	Silver	●	-	-	-	-	NC*FP-1		Nickel	Silver	●	●	●	●	●			
NC3FD-V-B	NC3MD-V-B	Black Cr	Gold	●	-	-	-	-		NC*MP	Nickel	Silver	●	●	●	●	-			
NC3FD-V-BAG	NC3MD-V-BAG	Black Cr	Silver	●	-	-	-	-	NC*FP-B-1		Black Cr	Gold	●	●	●	●	●			
NC3FDM3-V	NC3MDM3-V	Nickel	Silver	●	-	-	-	-		NC*MP-B	Black Cr	Gold	●	●	●	●	-			
NC3FDM3-V-B	NC3MDM3-V-B	Black Cr	Gold	●	-	-	-	-	NC*FP-BAG-1	NC*MP-BAG	Black Cr	Silver	●	●	●	●	-			
NC3FD-H	NC3MD-H	Nickel	Silver	●	-	-	-	-	MPR-HD Series											
NC3FD-H-B	NC3MD-H-B	Black Cr	Gold	●	-	-	-	-	-	NC*MPR-HD	Nickel	Gold	●	●	●	-	-			
NC3FD-H-BAG	NC3MD-H-BAG	Black Cr	Silver	●	-	-	-	-	Combo A Series											
NC3FDM3-H-D	NC3MDM3-H	Nickel	Silver	●	-	-	-	-					5	6	9	10				
NC3FDM3-H-B-D	NC3MDM3-H-B	Black Cr	Gold	●	-	-	-	-					pole pole pole pole							
NC3FDM3-H-BAG-D	NC3MDM3-H-BAG	Black Cr	Gold	●	-	-	-	-	NCJ6FA-H	Black plastic	Gold	-	●	-	-	-				
DL Series									NCJ6FA-H-0	Black plastic	Gold	-	●	-	-	-				
NC*FD-L-1	NC*MD-L-1	Nickel	Silver	●	●	●	●	●	NCJ6FA-V	Black plastic	Gold	-	●	-	-	-				
NC*FD-L-B-1	NC*MD-L-B-1	Black Cr	Gold	●	●	●	●	●	NCJ6FA-V-0	Black plastic	Gold	-	●	-	-	-				
NC*FD-L-BAG-1	NC*MD-L-BAG-1	Black Cr	Silver	●	●	●	●	-	Combo Series											
NC*FDM3-L-1-D	NC*MDM3-L-1	Nickel	Silver	●	●	●	-	-	NCJ*FI-H	Black plastic	Gold	●	●	●	●	●				
NC3FDM3LBAG-1-D	NC3MDM3LBAG-1	Black Cr	Silver	●	-	-	-	-	NCJ*FI-H-0	Black plastic	Gold	●	●	●	●	●				
NC3FD-L-1-HE	NC3MD-L-1-HE	Velour Cr	Gold	●	-	-	-	-	NCJ*FI-S	Black plastic	Gold	●	●	●	●	●				
NC*FDM3-H-D	NC*MDM3-H	Nickel	Silver	-	●	●	●	-	NCJ*FI-S-0	Black plastic	Gold	●	●	●	●	●				
NC*FDM3-H-B-D	NC*MDM3-H-B	Nickel	Silver	-	●	●	●	-	NCJ*FI-V	Black plastic	Gold	●	●	●	●	●				
NC*FDM3-H-BAG-D	NC*MDM3-H-BAG	Black Cr	Silver	-	●	●	●	-	NCJ*FI-V-0	Black plastic	Gold	●	●	●	●	●				
NC3FD-S-1-B	NC3MD-S-1-B	Black Cr	Silver	●	-	-	-	-	Contact #											
DLX Series										1	2	3	T	R	S	TN	RN	SN	G	GN
NC*FD-LX	NC*MD-LX	Nickel	Silver	●	●	●	●	●	NCJ5FI-*	x	x	x	x		x					x
NC*FD-LX-B	NC*MD-LX-B	Black Cr	Gold	●	●	●	●	●	NCJ6FI-*	x	x	x	x	x	x					x
NC*FD-LX-BAG	NC*MD-LX-BAG	Black Cr	Silver	●	●	●	-	-	NCJ9FI-*	x	x	x	x	x	x	x	x	x	x	x
NC*FD-LX-M3	NC*MD-LX-M3	Nickel	Silver	●	●	●	-	-	NCJ10FI-*	x	x	x	x	x	x	x	x	x	x	x
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	●	-	-	-	-												
Accessories																				
FDR-1		Black round panel mounting flange with screws for larger panel cut-outs																		



## Panel Cutouts

A / AA / B / BA Series

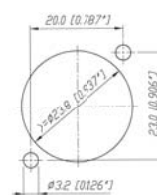
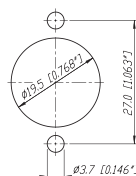
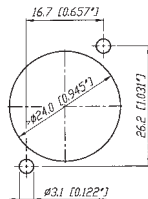
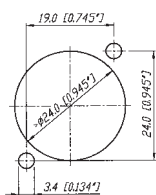
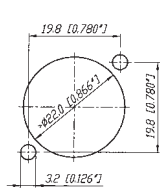
D / DL / DLX Series

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



ATFXA

Cable termination tool for female crimp-pierce XLR



ATMXA

Cable termination tool for male crimp-pierce XLR



ATXX

Boot assembly machine for XLR 3XX

