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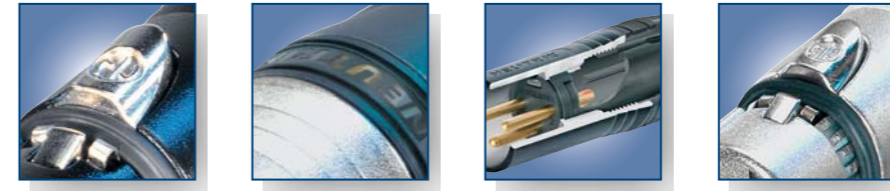
Introduction

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.



Ergonomic latch design Neutrik hologram Inside view Circumferential ground shield contact

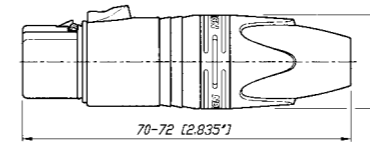
XX Series



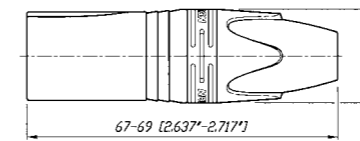
NC3FXX NC6MXX-B

- 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 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

NC*FXX



NC*MXX



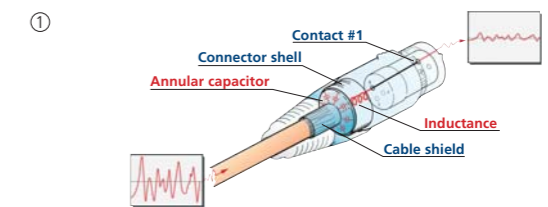
* ... 3 - 7 contacts

EMC-XLR Series

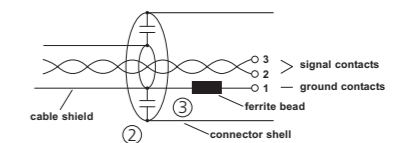


NC3FXX-EMC NC3MXX-EMC

- 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)





Right angle male connector



High temperature resistant insulator



Velour chromium housing

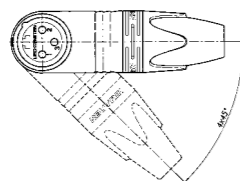


Large cable outlet

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



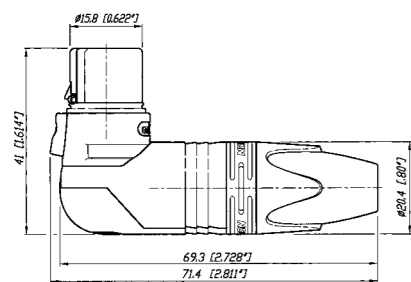
NC3FXX-BAG-HA



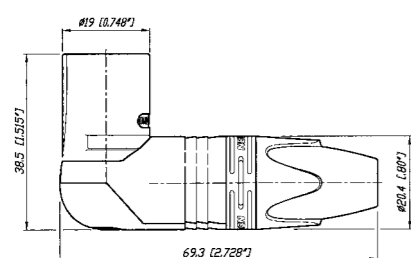
NC3MXX-HA

- 3 pin XX Series with crimp contacts
- Accommodates wire size AWG 26 - 23 or 0.14 – 0.25 mm²
- 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

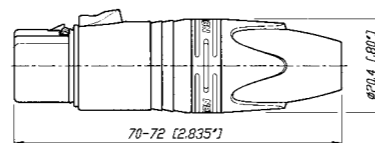


NC*MRX

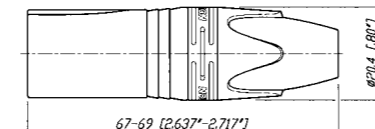


* ... 3 - 7 contacts

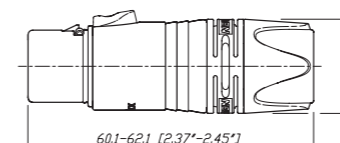
NC3FXX-HE



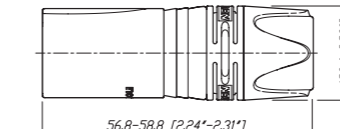
NC3MXX-HE



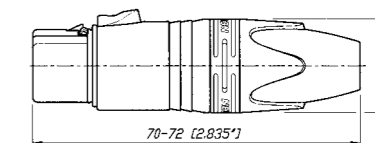
NC3FXX-14



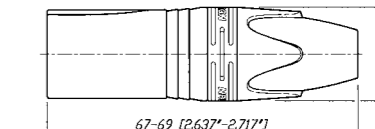
NC3MXX-14



NC3FXX-HA

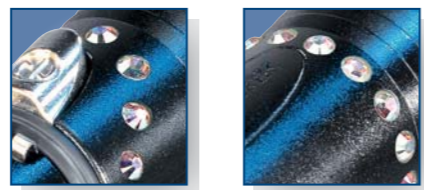


NC3MXX-HA

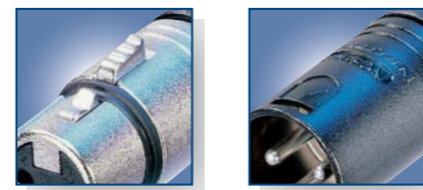




ConvertCon male - female

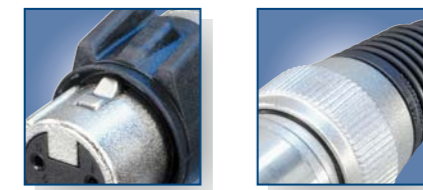


Crystal stones



Female locking

Male metal locking window



Rubber sealing protection

Metal bushing

ConvertCon

Crystal XLR

X Series

X-HD Series



NC3FM-C



NC3FXX-B-CRYSTAL

NC3MXX-B-CRYSTAL



NC3FX

NC3MX + BSX-5



NC5FX-HD

NC4MX-HD

- 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

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

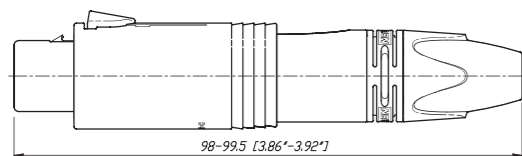
- The worldwide accepted XLR connector standard
- Rugged diecast shell
- Compact design (shortest available XLR cable connector)
- Time saving assembly – 4 parts only, no screws
- Neutrik unique chuck type strain relief
- Gold or silver plated contacts
- UL Recognized components
- Available in 3 - 7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

- "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

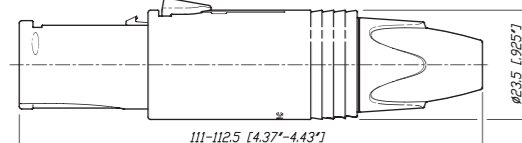


Convert male - female and vice versa

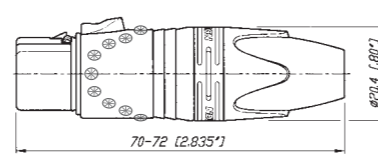
NC3FM-C: Position Female



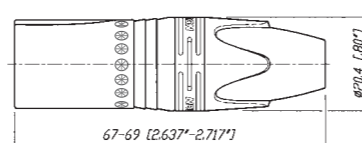
NC3FM-C: Position Male



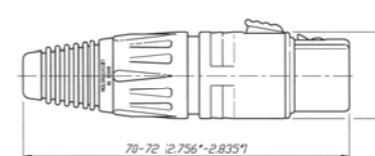
NC3FXX-B-CRYSTAL



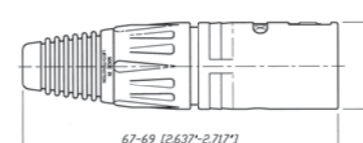
NC3MXX-B-CRYSTAL



NC*FX

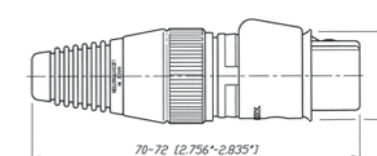


NC*MX

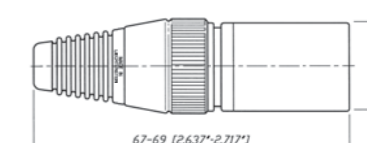


* ... 3 - 7 contacts

NC*FX-HD



NC*MX-HD



* ... 3 - 5 contacts





Coding ring



Switch activating ring



Locking ring

XCC Series

FXS Series

FX-SPEC Series



NC3FXCC



NC3FXS

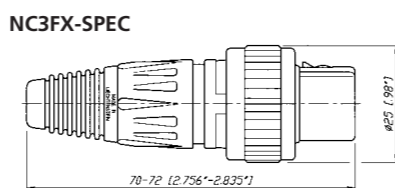
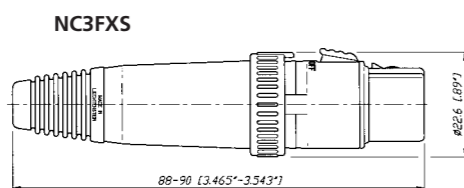
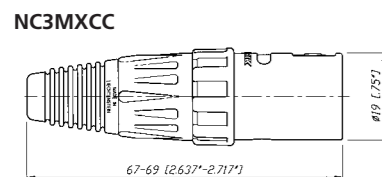
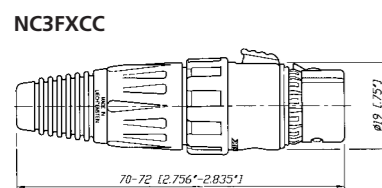


NC3FX-SPEC

- 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

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

- 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



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
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Electrical											
Number of contacts	3 - 7 ¹⁾	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	• ²⁾	•	•	5.4 - 6.2 mm	•	•	•	•	•	•
Max. wire size	3 pole: 2.5 mm ² / AWG 14	•	AWG 20	•	•	•	•	•	•	•	•
	4 pole: 1.5 mm ² / AWG 16	•	-	•	-	•	-	•	-	•	-
	5, 6, 7 pole: 1.0 mm ² / AWG 18	•	-	•	-	•	-	•	-	•	-
Crimp tool:	6.5 mm Hex die (size "E" acc. to IEC 60803)	-	-	-	•	-	-	-	-	-	B-crimp
Crimp XX:	0.14 - 0.25 mm ² / 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: ¹⁾ ... 3 pole ²⁾ ... 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
XX Series								
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 ¹	NC3MXX-**-D ¹	Nickel / Black Cr	Silver / Gold	•	-	-	-	-
NC6FSXX ²	NC6MSXX ²	Nickel	Silver	-	-	-	•	-
NC6FSXX-B ²	NC6MSXX-B ²	Black Cr	Gold	-	-	-	•	-
NC6FSXX-BAG ²	NC6MSXX-BAG ²	Black Cr	Silver	-	-	-	•	-
XX-EMC Series								
NC3FXX-EMC	NC3MXX-EMC	Nickel	Gold	•	-	-	-	-
NC3FXX-EMC-B	-	Black Cr	Gold	•	-	-	-	-
RX Series								
NC*FRX	NC*MRX	Nickel	Silver	•	•	•	•	•
NC*FRX-B	NC*MRX-B	Black Cr	Gold	•	•	•	•	•
NC*FRX-BAG	NC*MRX-BAG	Black Cr	Silver	•	•	•	•	•
XX-HE Series								
NC3FXX-HE	NC3MXX-HE	Velour Chromium	Gold	•	-	-	-	-
XX-14 Series								
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	•	-	-	-	-
XX Crimp Series								
NC3FXX-HA	NC3MXX-HA	Nickel	Gold	•	-	-	-	-
NC3FXX-HA-BAG	NC3MXX-HA-BAG	Black Cr	Silver	•	-	-	-	-
ConvertCon Series								
NC3FM-C	-	Nickel	Gold	•	-	-	-	-
Crystal XLR								
NC3FXX-B-CRYSTAL	NC3MXX-B-CRYSTAL	Black Cr	Gold	•	-	-	-	-
X Series								
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 ¹	NC3MX-**-D ¹	Nickel / Black Cr	Silver / Gold	•	-	-	-	-
NC6FSX ²	NC6MSX ²	Nickel	Silver	-	-	-	•	-
NC6FSX-B ²	NC6MSX-B ²	Black Cr	Gold	-	-	-	•	-
NC6FSX-BAG ²	NC6MSX-BAG ²	Black Cr	Silver	-	-	-	•	-
X-HD Series								
NC*FX-HD	NC*MX-HD	Nickel	Gold	•	•	•	-	-
NC3FX-HD-B	NC3MX-HD-B	Metal Black	Gold	•	-	-	-	-
XCC Series								
NC3FXCC	NC3MXCC	Nickel	Gold	•	-	-	-	-
FXS Series								
NC3FXS	-	Nickel	Gold	•	-	-	-	-
NC3FXS-B	-	Black Cr	Gold	•	-	-	-	-
FX-SPEC Series								
NC3FX-SPEC	-	Black Cr	Gold	•	-	-	-	-

Accessories and Assembly Tools

Detailed information on page 21 and 26.

* Number of Contacts ** Nickel or Black -D¹ Bulk packed, to be ordered in multiples of 100 pcs. ² Switchcraft Equivalent



Colored coding ring



Lateral right PCB mount



Locking release tab



Ground contact

A Series



NC3FAH1



NC3MAHR



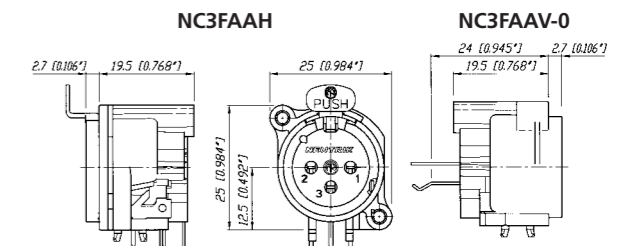
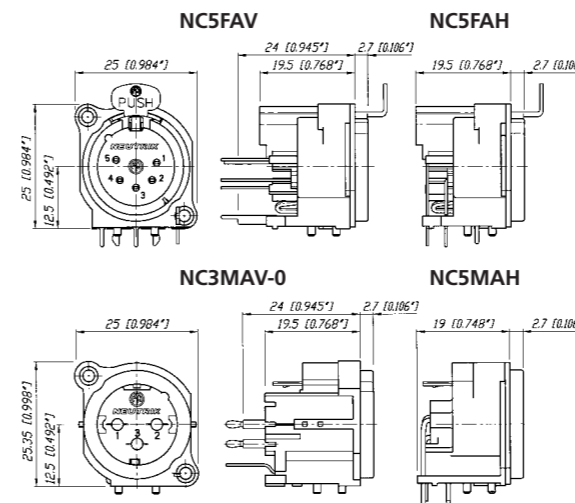
NC3FAAV2



NC3MAAH-1

- 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

- 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

BA Series



NC3FBV



NC3MBV



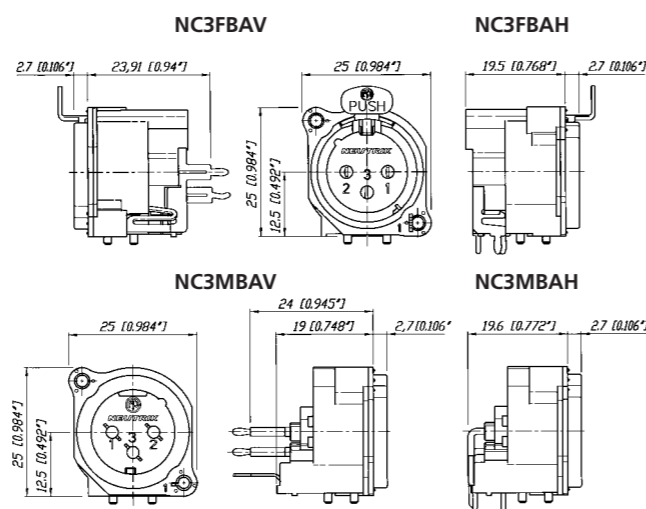
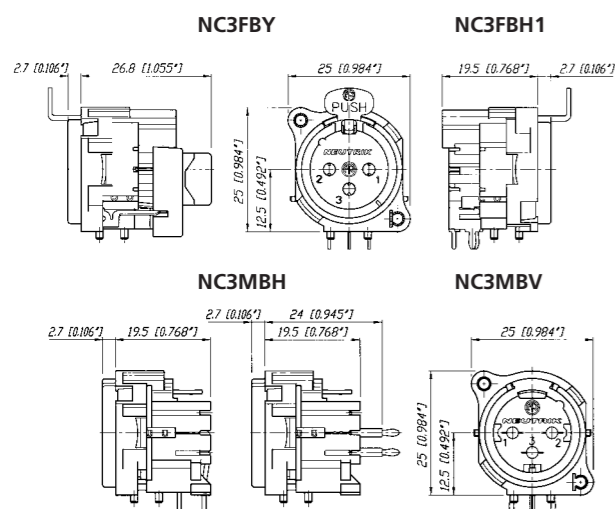
NC3FBAV2



NC3MBAH

- 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

- 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

D Series



NC5FAV-SW



NC5MAV-SW



NC3FD-H

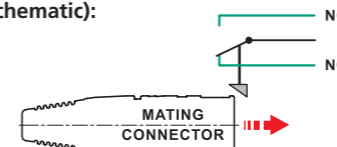


NC3MD-V

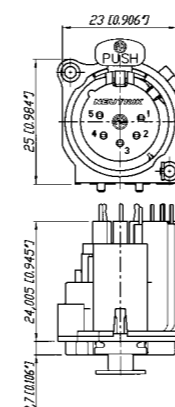
- A and B Series 5 pole connector with additional switch
- Normally open, normally closed (NO - NC) contact
- Switch activated by mating XLR cable connector
- Available in 5 pole, 3 or 4 pole on request

- "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

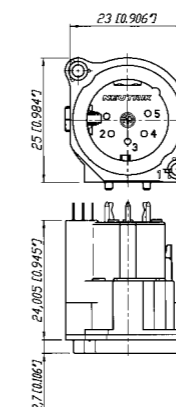
Inserting (Schematic):



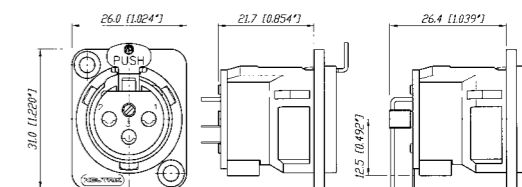
NC5FAV-SW



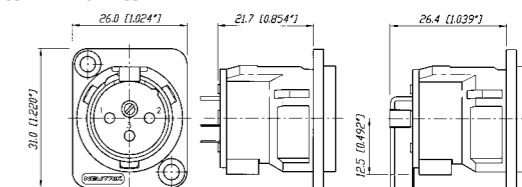
NC5MBV-SW



NC3FD-V / NC3FD-H



NC3MD-V / NC3MD-H





Locking release tab



Horizontal PCB mount



Ground shielding



Crimp type contact



Circumferential ground spring

DL Series

DLX Series

DLX Crimp Series

EMC Series



NC3FD-L-1



NC4MDM3-H



NC3FD-LX-HE



NC5MD-LX

NEW



NC3FD-LX-HA



NC3MD-LX-BAG-HA



NC3FDX-EMC-SPEC

- 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

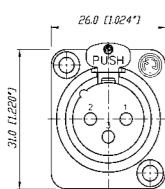
- Next generation of the popular DL Series with greater functionality
- All metal housing works in combination with a new duplex ground contact yielding the best RF protection and ground conductivity in a chassis mount XLR
- Male connector's retention bar replaces plastic design with all metal version
- 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

- 3 pole DLX Series with crimp contacts
- Accommodates wire size AWG 26 - 23 or 0.14 - 0.25 mm²
- 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

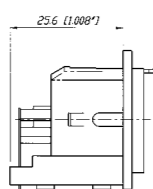
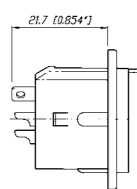
- 3 pole female XLR chassis connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact on female connector ensures best possible shielding and chassis contact
- D flange chassis for panel mount applications
- Includes the locking nut of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

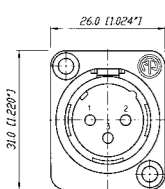
NC3FD-L-1



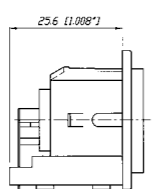
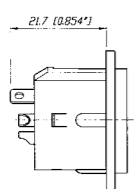
NC*FDM3-H



NC3MD-L-1

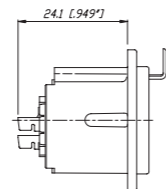
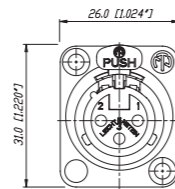


NC*MDM3-H

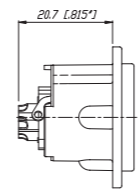


* ... 3 - 5 contacts

NC3FD-LX

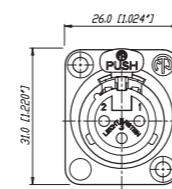


NC*MD-LX

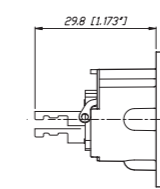
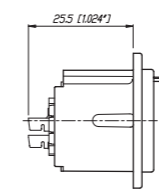


* ... 3 - 7 contacts

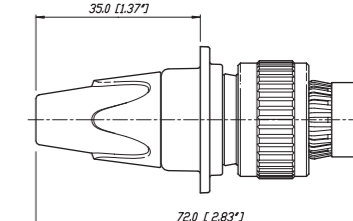
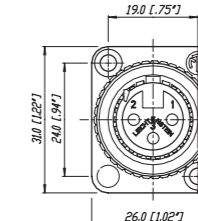
NC3FD-LX-HA



NC3MD-LX-HA



NC3FDX-EMC-SPEC





Sealing Gasket



Through hole fastening



Front end design



Solder termination

MPR-HD Series

P Series

Combo Series



NC3MPR-HD



NC5MPR-HD



NC3FP-1



NC6MP-B



NCJ9FI-V



NCJ10FI-S

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

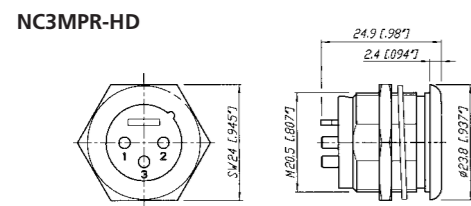
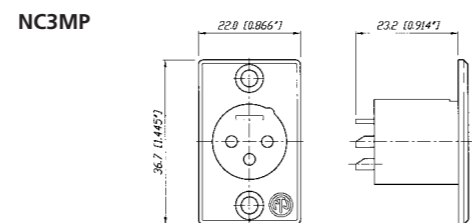
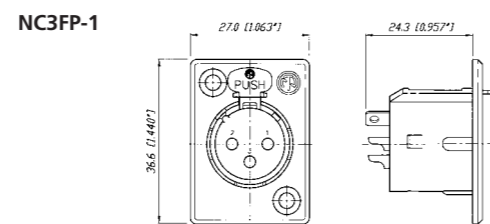
- Smallest available hard wiring receptacles with large solder cups
- Short female receptacle
- Compatible with Switchcraft DxM, DxF; Cannon XLRx31, XLRx32
- 6 pole version available with Switchcraft contact arrangement (NC6FSP-1, NC6MSP)

- 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



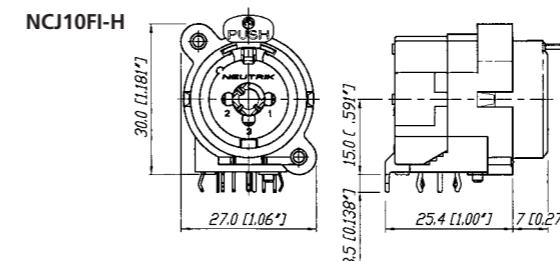
NC5MPR-HD

NC5FX-HD



* ... 3 - 5 contacts

XLR receptacle or 1/4" phone jack





Horizontal PCB mount Vertical PCB mount Hologram

Combo A Series

NEW



NCJ6FA-V



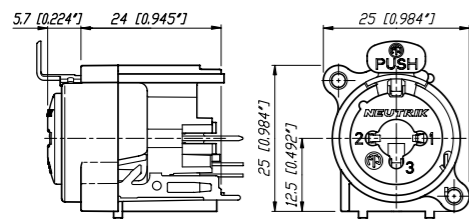
NCJ6FA-H-0



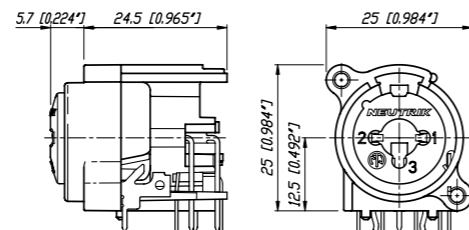
NCJ6FA-V-0

- 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
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

XLR Cable Connectors		
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	
XLR Chassis Connectors		
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 Series MPR-HD Series P Series Combo Series A Series

Electrical	A Series	AA Series	B Series	BA Series	D Series	DL/DLX Series	DLX Crimp Series	MPR-HD Series	P Series	Combo Series	A Series
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
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	A Series	AA Series	B Series	BA Series	D Series	DL/DLX Series	DLX Crimp Series	MPR-HD Series	P Series	Combo Series	A Series
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	A Series	AA Series	B Series	BA Series	D Series	DL/DLX Series	DLX Crimp Series	MPR-HD Series	P Series	Combo Series	A Series
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	A Series	AA Series	B Series	BA Series	D Series	DL/DLX Series	DLX Crimp Series	MPR-HD Series	P Series	Combo Series	A Series
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	3 pole
A Series							AA Series				
NC*FAH-D		Black Plastic	Gold	-	• ^⓪	• ^⓪	NC3FAAH	NC3MAAH	Black Plastic	Gold	•
	NC*MAH	Black Plastic	Gold	•	•	•	NC3FAAH-0		Black Plastic	Gold	•
NC*FAH-0		Black Plastic	Gold	•	• ^⓪	• ^⓪	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	-	• ^⓪	• ^⓪					
	NC*MAV	Black Plastic	Gold	•	•	•					
NC*FAV-0		Black Plastic	Gold	•	• ^⓪	• ^⓪					
	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.

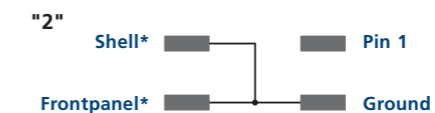
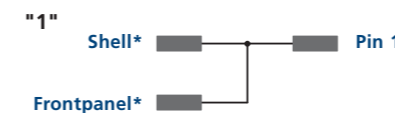
A / AA Series rear mount only, all PCB mount except Y version = IDC

⓪... Grounding Option "2"
 0... Retention Spring

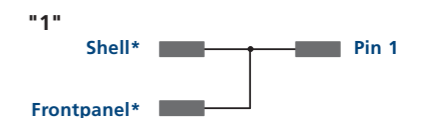
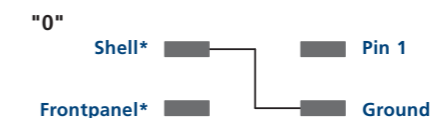
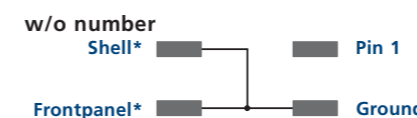
Grounding Options

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	●	-	-
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	●							

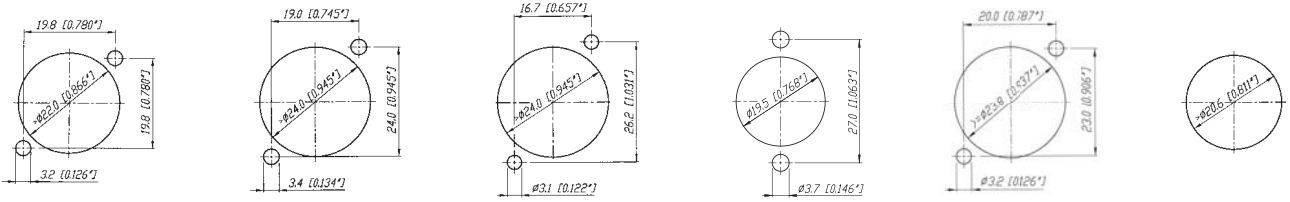
Ordering Information for Receptacle

Female	Male	Shell	Contact	3 pole	4 pole	5 pole	6 pole	7 pole	Female	Male	Shell	Contact	3 pole	4 pole	5 pole	6 pole	7 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 pole	6 pole	9 pole	10 pole			
NC3FDM3-H-B-D	NC3MDM3-H-B	Black Cr	Gold	●	-	-	-	-	NCJ6FA-H		Black plastic	Gold	-	●	-	-							
NC3FDM3-H-BAG-D	NC3MDM3-H-BAG	Black Cr	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 #														
													1	2	3	T	R	S	TN	RN	SN	G	GN
									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	x	x	x
									NCJ10FI-*	x	x	x	x	x	x	x	x	x	x	x	x	x	x
									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

