TRUST
THE
ORIGINAL

XLR Connectors



NEUTRIK®

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XLR Connectors



Introduction

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

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



Ergonomic latch design



White painted housing



Rubber sealing protection



IP65 in mated condition

TRUE OUTDOOR PROTECTION

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 of soldering
- Male connector without locking "window" – more robust housing, increases durability
- Improved chuck type strain relief - increases retention force and makes assembly easier and faster
- New ground contact – excellent contact integrity between chassis and cable connector
- Customized branding using translucent ring
- Sleek and ergonomic design – valuable and handy
- Internal thread on shell is well protected against any damage

XLR TOP Series



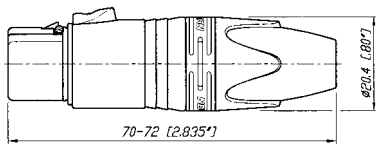
NC3FX-TOP



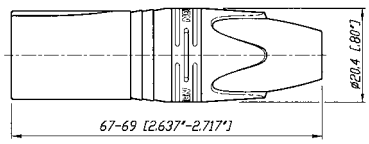
NC3MX-TOP

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

NC*FXX

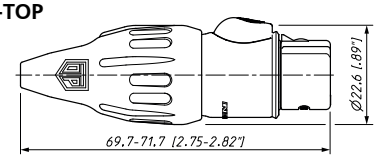


NC*MXX

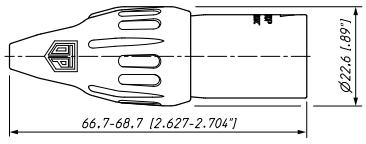


*: 3 - 7 contacts

NC*FX-TOP



NC*MX-TOP



*: 3 & 5 contacts



Right angle male connector



High temperature resistant insulator

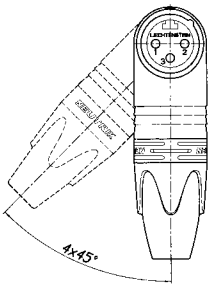


Velour chromium housing

RX Series



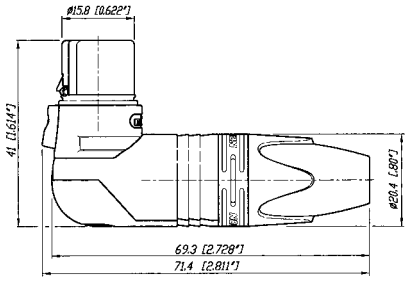
NC3FRX-BAG



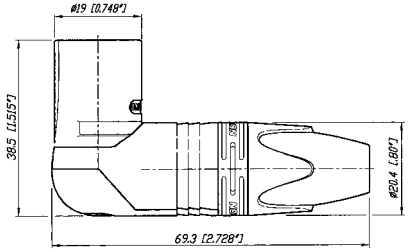
Outlet position

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

NC*FRX



NC*MRX



*: 3 - 7 contacts

XX-HE Series



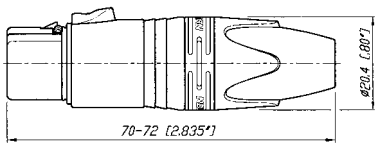
NC3FXX-HE



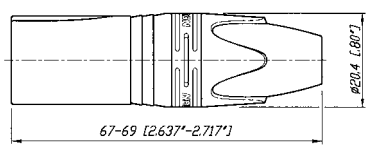
NC3MXX-HE

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

NC3FXX-HE



NC3MXX-HE





Large cable outlet



Ergonomic latch design

XX-14 Series



NC3FXX-14



NC3MXX-14-B

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

XX Crimp Series



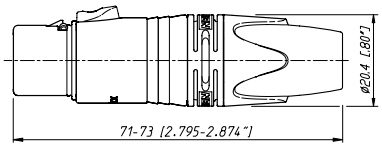
NC3FXX-HA-BAG



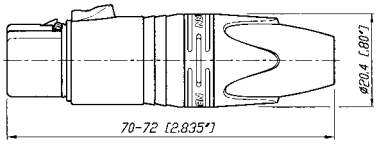
NC3MXX-HA

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

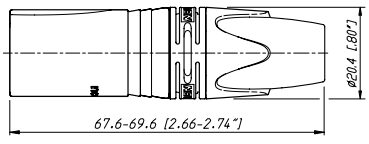
NC3FXX-14



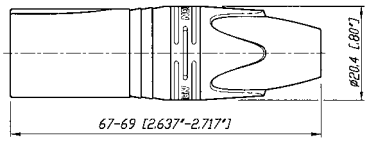
NC3FXX-HA



NC3MXX-14



NC3MXX-HA







CRYSTALLIZED™ – Swarovski Elements



Circumferential ground shield contact

crystalCON



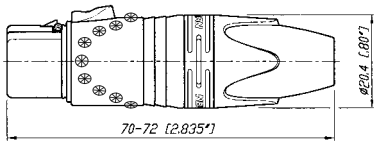
NC3FXX-B-CRYSTAL



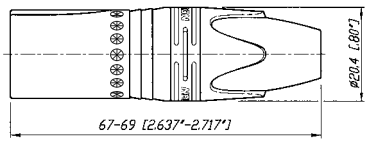
NC3MXX-B-CRYSTAL

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

NC3FXX-B-CRYSTAL



NC3MXX-B-CRYSTAL



EMC-XLR Series

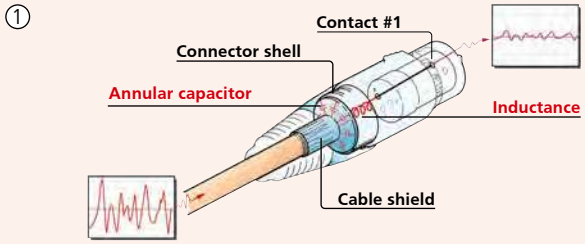


NC3FXX-EMC

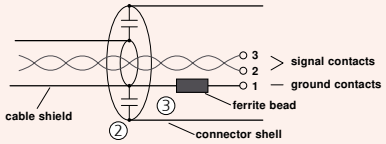


NC3MXX-EMC

- 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
- Avoid ground loops as there is no LF-shield connection to ground
- Patented



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







convertCON position male – female



Female locking



Male metal locking window

convertCON



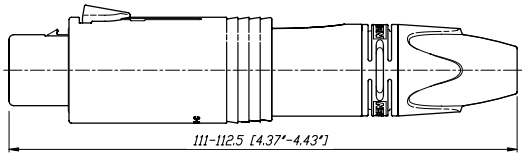
NC3FM-C-B NC3FM-C

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

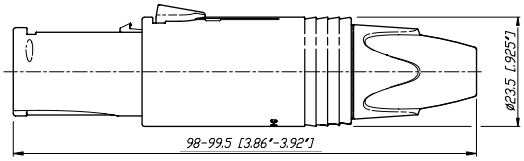


Convert
male – female
and vice versa

NC3FM-C: Position female



NC3FM-C: Position male



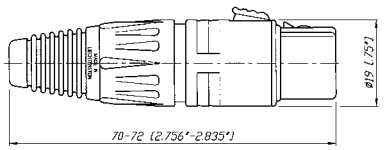
X Series



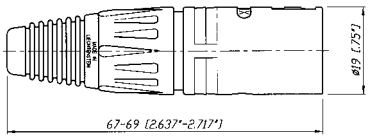
NC3FX NC3MX + BSX-5

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

NC*FX



NC*MX



*: 3 - 7 contacts



Rubber sealing protection



Metal bushing



Coding ring

X-HD Series



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

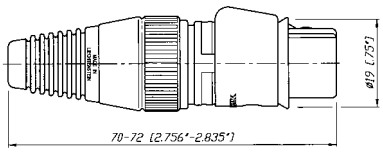
XCC Series



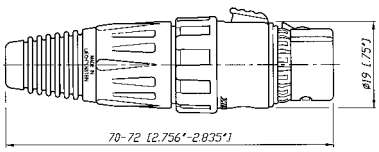
NC3FXCC

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

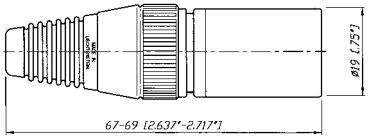
NC*FX-HD



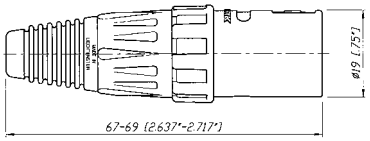
NC3FXCC



NC*MX-HD



NC3MXCC



*: 3 - 5 contacts



Switch activating ring



Locking ring

FXS Series



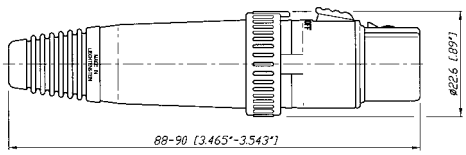
NC3FXS



NC3FXS-B

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

NC3FXS



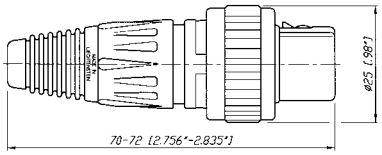
FX-SPEC Series



NC3FX-SPEC

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

NC3FX-SPEC





NEW 8 + 2 pole cable connector



Ergonomic latch design



New 8 + 2 pole D-size receptacle



Solder termination

XLR Type Data Power Connectors – 8 + 2 pole



NC10FXX-14-B



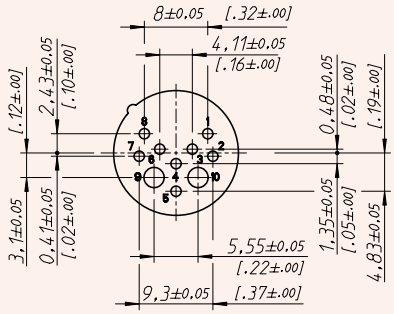
NC10FRX-14-B



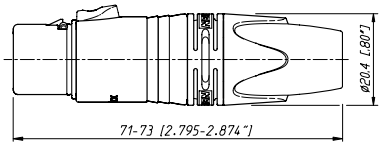
NC10MD-LX-B

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

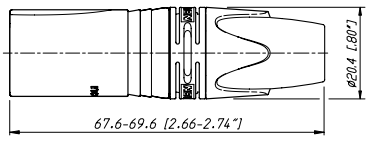
8 + 2 pole Contact Arrangement:



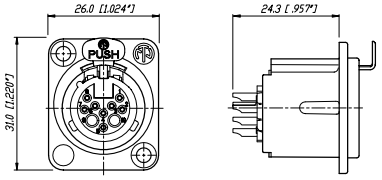
NC10FXX-14-B



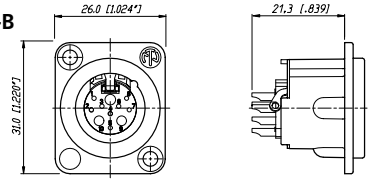
NC10MXX-14-B



NC10FD-LX-B



NC10MD-LX-B



Specification		XX & XX-14 & crystalCON	XLR TOP Series	RX Series	XX-HE Series	XX Crimp Series	EMC Series	convertCON Series
Electrical								
Number of contacts		3 - 7 [1]	3 - 5	3 - 7	3	3	3	3
Contact resistance	≤ 3 mΩ	●	●	●	●	●	●	●
Insulation resistance - initial:	> 10 GΩ	●	●	●	●	●	●	●
- after damp heat test:	> 1 GΩ	●	●	●	●	●	●	●
Dielectric strength	1.5 kV dc	●	●	●	●	●	●	●
Cable shield-shell connection	choosable	●	●	●	●	●	-	●
	determined	-	-	-	-	-	capacitive	-
Shielding effectiveness	> 55 dB @ 1.3 GHz	-	-	-	-	-	●	-
Lossy ferrite bead on PIN 1		-	-	-	-	-	●	-
Rated current per contact	@ 35°C							
3 pole:	16 A	●	●	●	●	1 A	5 A	●
4 pole:	10 A	●	-	●	-	-	-	-
5, 6 pole:	7.5 A	●	●	●	-	-	-	-
7 pole:	5 A	●	-	●	-	-	-	-
Capacitance between contacts								
3 pole:	≤ 4 pF	●	●	●	●	●	●	●
4, 5, 6 pole:	≤ 7 pF	●	●	●	-	-	-	-
7 pole:	≤ 9 pF	●	-	●	-	-	-	-
Rated Voltage	< 50 V ac	●	●	●	●	●	●	●
Mechanical								
Lifetime	> 1`000 cycles	●	●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	≤ 50 N	●
Cable O.D. range	3.5 - 8.0 mm	● [2]	5.0 - 8.0 mm	●	●	●	●	●
Max. wire size 3 pole:	2.5 mm² / AWG 14	●	AWG 16	●	●	-	AWG 20	●
4 pole:	1.5 mm² / AWG 16	●	-	●	-	-	-	-
5, 6, 7 pole:	1.0 mm² / AWG 18	●	AWG 16	●	-	-	-	-
Crimp XX:	0.22 - 0.34 mm² / AWG 24 - 22	-	-	-	-	●	-	-
Material								
Shell	Zinc diecast (ZnAl4Cu1)	●	● (F)	●	●	●	●	●
	Stainless steel	-	● (M)	-	-	-	-	-
Shell plating	gal Ni or black Cr	●	●	●	velour Cr	●	●	●
Insert	Polyamide PA 6.6	●	●	●	PPS 40% GR	●	●	●
Contacts - female 3 pole:	Bronze (CuSn8)	●	●	●	Brass	●	●	●
- female 4 – 7 pole & male:	Brass (CuZn39Pb3)	●	●	●	●	-	●	●
Contact surface Silver	gal 2 µm Ag	●	-	●	-	●	-	●
or Gold	gal 0.2 µm Au hard alloy over 2 µm Ni	●	●	●	●	-	●	●
Latch lock	St3K32 (latch) / Ck 67 (spring)	-	●	-	-	-	-	-
	Zinc diecast (ZnAl4Cu1) / CK67 (Spring)	●	-	●	●	●	●	●
Strain-relief clamp	POM	●	●	●	●	●	●	●
Bushing	PA / PU	●	UV-resistant rubber	●	●	●	●	●
Circumferential ground spring	Bronze (CuSn6), Ni plated	-	-	-	-	-	●	-
Crimp ferrule	Brass (CuZn39Pb3), Ni plated	-	-	-	-	-	-	-
Coding ring	Polyamide PA 6 15% GR	-	-	-	-	-	-	-
Sealing jacket	EPDM	-	-	-	-	-	-	-
Securing ring	Brass (CuZn39Pb3)	-	-	-	-	-	-	-
Environmental								
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●	●
Flammability	UL 94 V-0 (●) / UL 94 HB (○)	●	●	●	●	●	●	○
Protection class	IP 40	●	IP65 [3]	●	●	●	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●	●
Manufacturing Standard	IEC 61076-2-103	●	●	●	●	●	●	●

[1] : XX-14, CRYSTAL: 3 pole
[2] : XX-14: Cable O.D. 8.0 – 10.0 mm
[3] : UL50E (mated)

Specification		X Series	XCC Series	X-HD Series	FXS Series	FX-SPEC Series	Data Power XLR
Electrical							
Number of contacts		3 - 7	3	3 - 5	3	3	8 + 2
Contact resistance	≤ 3 mΩ	●	●	●	●	●	●
Insulation resistance - initial:	> 10 GΩ	●	●	●	●	●	●
- after damp heat test:	> 1 GΩ	●	●	●	●	●	0.1 GΩ
Dielectric strength	1.5 kV dc	●	●	●	●	●	1 kV dc
Cable shield-shell connection	choosable	●	-	●	-	●	●
	determined	-	crimp	-	-	-	-
Shielding effectiveness	> 55 dB @ 1.3 GHz	-	●	-	-	-	-
Lossy ferrite bead on PIN 1		-	-	-	-	-	-
Rated current per contact	@ 35°C						16 A (power pins)
3 pole:	16 A	●	●	●	●	●	-
4 pole:	10 A	●	-	●	-	-	-
5, 6 pole:	7.5 A	●	-	●	-	-	-
7 pole:	5 A	●	-	-	-	-	3 A (data pins)
Capacitance between contacts							
3 pole:	≤ 4 pF	●	●	●	●	●	-
4, 5, 6 pole:	≤ 7 pF	●	-	●	-	-	-
7 pole:	≤ 9 pF	●	-	-	-	-	-
Rated Voltage	< 50 V ac	●	●	●	●	●	-
Transmission Performance	CAT 5e	-	-	-	-	-	●
Mechanical							
Lifetime > 1`000 cycles		●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	●
Cable O.D. range	3.5 – 8.0 mm	●	5.4 - 6.2 mm	●	3.5 - 7.0 mm	●	8.0 - 10.0 mm
Max. wire size 3 pole:	2.5 mm² / AWG 14	●	●	●	●	●	● (2 power)
4 pole:	1.5 mm² / AWG 16	●	-	●	-	●	-
5, 6, 7 pole:	1.0 mm² / AWG 18	●	-	●	-	-	● (8 data)
Crimp tool:	6.5 mm Hex die (size "E" acc. to IEC 60803)	-	●	-	-	-	-
Crimp XX:	0.22 - 0.34 mm² / AWG 24 - 22	-	-	-	-	-	-
Material							
Shell	Zinc diecast (ZnAl4Cu1)	●	●	female	●	●	●
	Stainless steel	-	-	male	-	-	-
Shell plating	gal Ni or black Cr	-	●	female	●	●	black Cr
Insert	Polyamide PA 6.6	●	●	●	●	●	●
Contacts - female 3 pole:	Bronze (CuSn8)	●	●	●	●	●	-
- female 4 – 7 pole & male:	Brass (CuZn39Pb3)	●	●	●	-	-	●
Contact surface Silver	gal 2 µm Ag	●	-	-	●	-	-
or Gold	gal 0.2 µm Au hard alloy over 2 µm Ni	-	●	●	-	●	●
Latch lock	St3K32 (latch) / Ck 67 (spring)	●	●	●	●	●	-
	Zinc diecast (ZnAl4Cu1)	-	-	-	-	-	●
Strain-relief clamp	POM	●	●	●	●	●	●
Bushing	PA / PU	●	●	SS/PU	PU	●	●
Circumferential ground spring	Bronze (CuSn6), Ni plated	-	●	-	-	-	-
Crimp ferrule	Brass (CuZn39Pb3), Ni plated	-	●	-	-	-	-
Coding ring	Polyamide PA 6 15% GR	-	●	-	-	-	-
Sealing jacket	EPDM	-	-	●	-	-	-
Securing ring	Brass (CuZn39Pb3)	-	-	-	-	●	-
Environmental							
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●
Flammability	UL 94 V-0	●	●	●	●	●	●
Protection class	IP 40	●	●	IP 65	●	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●
Manufacturing Standard	IEC 61076-2-103	●	●	●	●	●	●

Ordering Information for Cable Connectors

Female	Male	Shell	Contact - plating	3 pole	4 pole	5 pole	6 pole	7 pole
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-WT	NC3MXX-WT	White painted	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	-	-	-	●	-
XLR TOP Series								
NC*FX-TOP	NC*MX-TOP	Nickel / 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	Silver	●	-	-	-	-
NC3FXX-HA-BAG	NC3MXX-HA-BAG	Black Cr	Silver	●	-	-	-	-
crystalCON								
NC3FXX-B-CRYSTAL	NC3MXX-B-CRYSTAL	Black Cr	Gold	●	-	-	-	-
XX-EMC Series								
NC3FXX-EMC	NC3MXX-EMC	Nickel	Gold	●	-	-	-	-
NC3FXX-EMC-B	-	Black Cr	Gold	●	-	-	-	-
convertCON Series								
	NC3FM-C	Nickel	Gold	●	-	-	-	-
	NC3FM-C-B	Black Cr	Gold	●	-	-	-	-

Ordering Information for Cable Connectors

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

Ordering Information for 8 + 2 pole Data Power Connectors

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

* : Number of Contacts

**: Nickel or Black

–D[1]: Bulk packed, to be ordered in multiples of 100 pcs.

[2] : Switchcraft Equivalent

Colour Coded Accessories

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

Accessories

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



BXX-CR



XXCR Example

Assembly Tools

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



HTXP



BTXX-14



HX-R-BNC



DIE-R-BNC-PT



Smallest receptacle



Lateral right PCB mount



Locking release tab



Ground contact



Ergonomic asymmetric locking release tab

A Series



NC3FAH



NC3MAV

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

AA Series



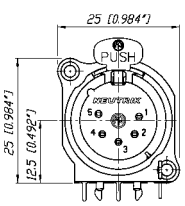
NC3FAAV2



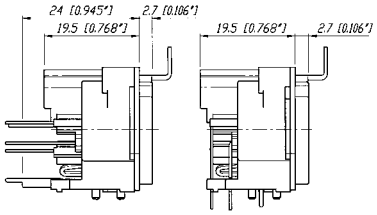
NC3MAAH-1

- 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

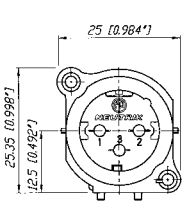
NC5FAV



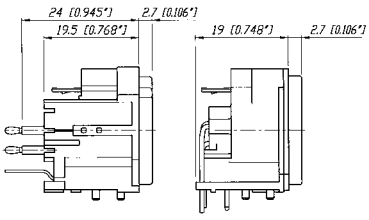
NC5FAH



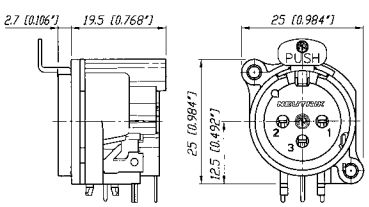
NC3MAV-0



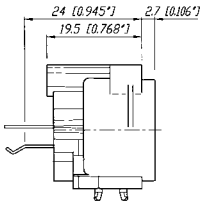
NC5MAH



NC3FAAH



NC3FAAV-0



Grounding Options (A / AA / B Series):

Female:

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

Male:

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



Front panel grounding



Ergonomic asymmetric locking release tab





Incorporated switch

B Series



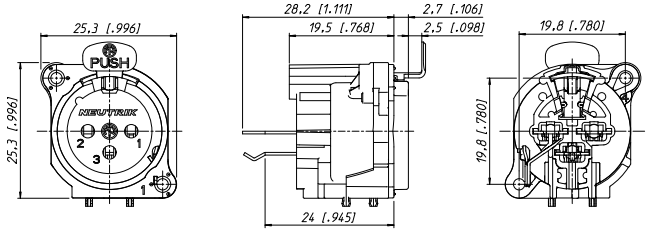
NC3FBV1



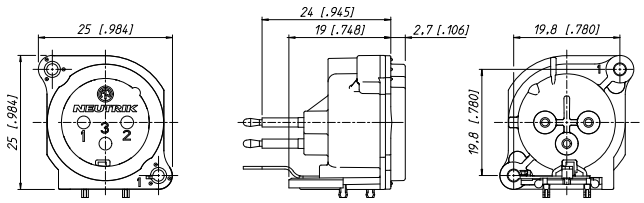
NC4MBV

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

NC3FBV1



NC3MBV



A/B Series - Switch



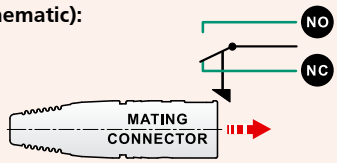
NC3FBV2-SW



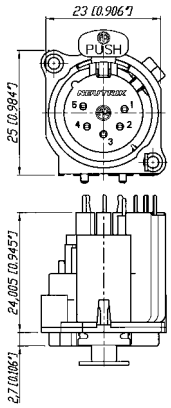
NC3MBV-SW

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

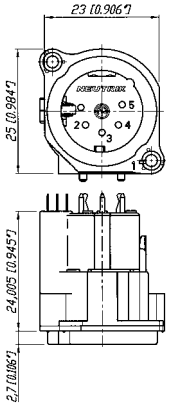
Inserting (Schematic):



NC5FAV-SW



NC5MBV-SW





Locking release tab

TRUE OUTDOOR PROTECTION



Removable insert

XLR TOP Series



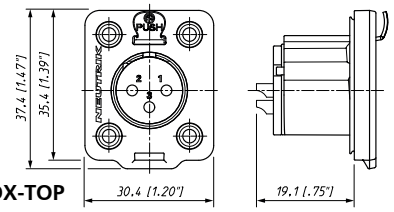
NC3FDX-TOP



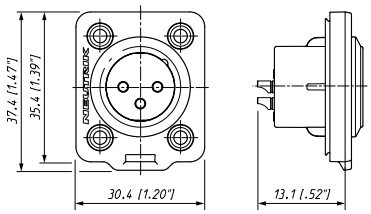
NC3MDX-TOP

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

NC*FDX-TOP



NC*MDX-TOP



*: 3 - 5 contacts

D Series



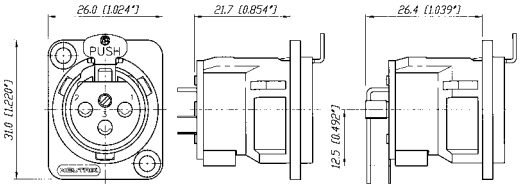
NC3FDM3-H-B



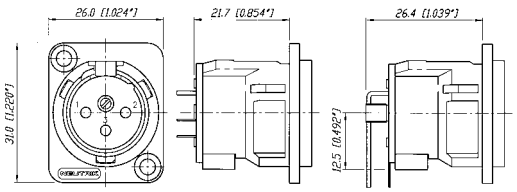
NC3MD-V

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

NC3FD-V / NC3FD-H



NC3MD-V / NC3MD-H





Locking release tab



Horizontal PCB mount



Ground shielding



White painted housing

DL Series



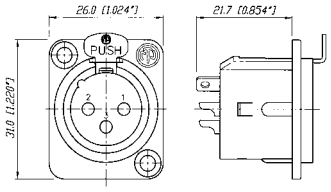
NC3FD-L-1



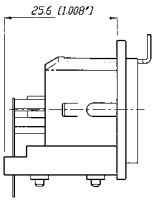
NC7MD-L-B-1

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

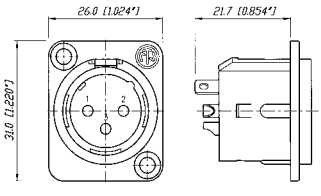
NC3FD-L-1



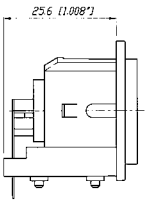
NC*FDM3-H



NC3MD-L-1



NC*MDM3-H



*: 3 - 5 contacts

DLX Series



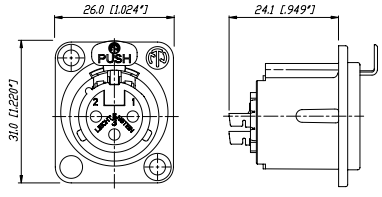
NC3FD-LX-HE



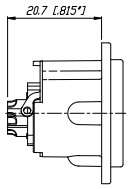
NC5MD-LX

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

NC3FD-LX



NC*MD-LX



*: 3 - 7 contacts



Crimp type contact



Circumferential ground spring

DLX Crimp Series



NC3FD-LX-HA



NC3MD-LX-BAG-HA

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

EMC Series

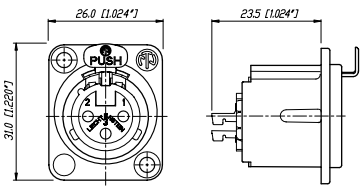


NC3FDX-EMC-SPEC

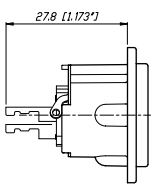
- 3 pole female XLR chassis connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact ensures best possible shielding and chassis contact
- D flange chassis for panel mount applications
- Includes the locking nut of the NC3FX-SPEC for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

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

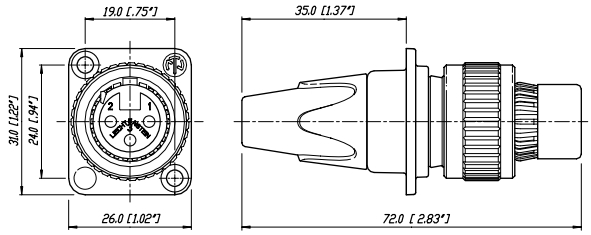
NC3FD-LX-HA



NC3MD-LX-HA



NC3FDX-EMC-SPEC





Sealing gasket





Through hole fastening

MPR-HD Series



NC3MPR-HD



NC5MPR-HD

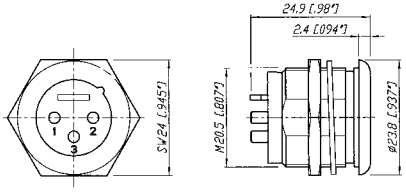
- IP 65 – in combination with NC*FX-HD cable connectors
- Perfect for outdoor applications
- Sealing gasket for water tight panel mount
- Gold plated contacts



NC5MPR-HD

NC5FX-HD

NC3MPR-HD



*: 3 - 5 contacts

P Series



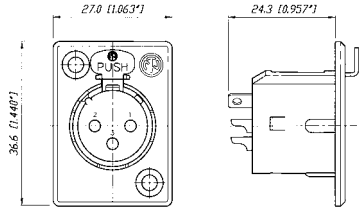
NC3FP-1



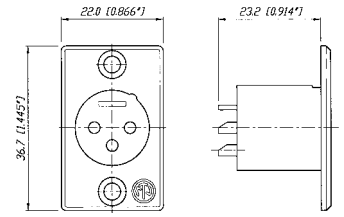
NC6MP-B

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

NC3FP-1



NC3MP





Front end design



Solder termination

Combo I Series



NCJ9FI-V



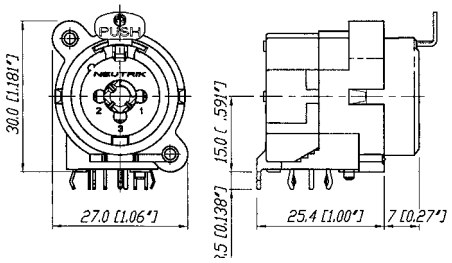
NCJ10FI-S

- Combined XLR receptacle and 1/4" phone jack
- Attractive "front end" design
- Saves rack space by combining 2 connectors in one housing
- Horizontal or vertical PCB mount or hard wire soldering
- Fully normalled
- Stereo or mono version
- Very low conductor capacitance, therefore suitable for digital audio
- Fastening: Self-tapping Plastite® screws with thread 2.9 x 1.06 and tri-rondular configuration (A screw)

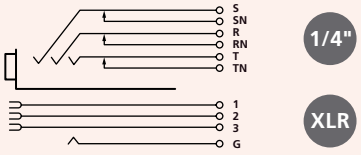


XLR receptacle or
1/4" phone jack

NCJ10FI-H



Wiring: Example of NCJ9FI-H

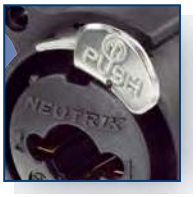




Horizontal PCB mount



Vertical PCB mount



NEW: Ergonomic asymmetric locking release tab

Combo A Series



NCJ6FA-V-0



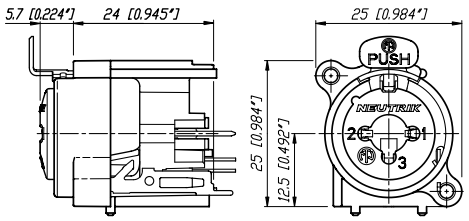
NCJ6FA-H



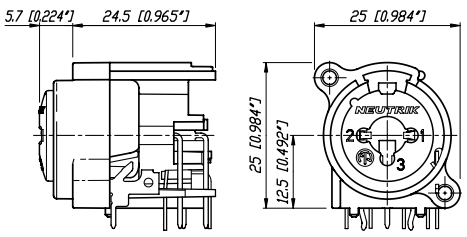
NCJ6FA-V-0

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

NCJ6FA-V



NCJ6FA-H



Specification		A Series	AA Series	B Series	XLR TOP Series	D Series	DL / DLX Series	DLX Crimp
Electrical								
Number of contacts		3 - 5	3	3 - 5	3 - 5	3	3 - 7	3
Contact resistance XLR:	≤ 6 mΩ	●	●	●	●	●	●	●
1/4"& switching contacts**:	≤ 20 mΩ	-	-	-	-	-	-	-
Insulation resistance - initial:	> 10 GΩ	●	●	●	●	●	●	●
- after damp heat test:	> 1 GΩ	●	●	●	●	●	●	●
Dielectric strength	1.5 kV dc	●	●	●	●	●	●	●
Rated voltage	< 50 V ac	●	●	●	●	●	●	●
Rated current per contact								
3 pole:	6 A	●	●	●	16 A	●	16 A	1 A
4 pole:	6 A	●	-	●	-	-	10 A	-
5, 6 pole:	3 A	●	-	●	7.5 A	-	7.5 A	-
7 pole:	5 A	-	-	-	-	-	●	-
Combo XLR + Jack contact	7.5 A	-	-	-	-	-	-	-
Capacitance between contacts								
3 pole:	≤ 4 pF	●	●	●	●	-	●	●
4, 5, 6 pole:	≤ 7 pF	●	-	●	●	-	●	-
7 pole:	≤ 9 pF	-	-	-	-	-	●	-
Mechanical								
Lifetime	> 1`000 mating cycles	●	●	●	●	●	●	●
Insertion / withdrawal force	≤ 20 N	●	●	●	●	●	●	●
Retention method								
- standard:	latch lock	●	●	●	●	●	●	●
- "0" Version:	≥ 20 N separating force	●	●	●	●	●	●	-
Crimp XX:	0.22 - 0.34 mm² / AWG 24 - 22	-	-	-	-	-	-	●
Material								
Insert Polyamide	PA 6.6	●	●	●	●	●	●	●
Shell Zinc diecast	ZnAl4Cu1	-	-	-	PA 6.6 30% GR	●	●	●
Shell plating	gal Ni or black Cr	-	-	●	-	●	●	●
Ring Zinc diecast	ZnAl4Cu1	-	-	●	-	-	-	-
Contacts - female 3 pole:	Bronze CuSn6	●	●	●	●	●	●	●
4 – 5 pole:	Bronze CuSn6	●	-	-	-	-	-	-
4 – 7 pole:	Brass CuZn39Pb3	-	-	-	●	-	●	-
- male:	Brass CuZn35Pb2	●	●	●	●	●	●	●
Contact surface	gal 0.2 µm AuCo over 2 µm NiP15 (Tribor®)	●	●	●	-	-	-	-
	gal 2 µm Ag or gal 0.2 µm Au hard alloy over 2 µm Ni	-	-	-	●	●	●	●
Latch lock & spring	Ck 67 steel, treated	●	●	●	●	●	●	●
Environmental								
Operating temperature	-30 °C to +80 °C	●	●	●	●	●	●	●
Protection class	IP 40	●	●	●	IP65 [3]	●	●	●
Flammability	UL 94 HB	-	●	-	●	-	-	-
	UL 94 V-0	●	-	●	-	●	●	●
Solderability complies with	IEC 68-2-20	●	●	●	●	●	●	●
Mounting screw		A	A	1)	-	-	-	-
Color coding		ACR* [2] (4 + 5 pole only)	-	ACR* [2]	-	DSS	DSS	DSS

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

2) : 4 + 5 pole A series, 5 pole B series

3) : UL50E (mated)

Specification			DLX-HE Series	MPR-HD Series	P Series	Combo I Series	A Combo
Electrical							
Number of contacts			3	3 - 5	3 - 7 (6*)	5 - 10	3/3
Contact resistance	XLR:	≤ 6 mΩ	●	●	●	≤10 mΩ	≤10 mΩ
1/4"& switching contacts**:		≤ 20 mΩ	-	-	-	●	≤10 mΩ
Insulation resistance	- initial:	> 10 GΩ	●	●	●	●	●
	- after damp heat test:	> 1 GΩ	●	●	●	>500 mΩ	●
Dielectric strength		1.5 kV dc	●	●	●	●	●
Rated voltage		50 V ac	●	●	●	●	●
Rated current per contact							
	3 pole:	6 A	16 A	16 A	16 A	-	3 A
	4 pole:	6 A	-	10 A	10 A	-	-
	5, 6 pole:	3 A	-	7.5 A	7.5 A	-	-
	7 pole:	5 A	-	-	●	-	-
Combo XLR + Jack contact		7.5 A	-	-	-	●	●
Capacitance between contacts							
	3 pole:	≤ 7 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
Crimp XX:		0.22 - 0.34 mm² / AWG 24 - 22	-	-	-	-	-
Material							
Insert	Polyamide	PA 6.6	PSS 40% GR	●	●	●	●
Shell	Zinc diecast	ZnAl4Cu1	●	●	●	-	-
Shell plating		gal Ni or black Cr	velour Cr	Ni	●	-	-
Ring	Zinc diecast	ZnAl4Cu1	-	-	-	-	-
Contacts	- female 3 pole:	Bronze CuSn6	●	-	●	●	●
	4 – 5 pole:	Bronze CuSn6	-	-	-	-	-
	4 – 7 pole:	Brass CuZn39Pb3	-	-	●	-	-
	- male:	Brass CuZn35Pb2	●	●	●	-	-
Contact surface	gal 0.2 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	●	-	●	●	●
Solderability complies with		IEC 68-2-20	●	●	●	●	●
Mounting screw			-	-	-	A	A
Color coding			DSS	-	-	-	-

*... P Series male 3 – 6 pole
**... if existing

Ordering Information for Receptacles

Female	Male	Shell	Contact	3 pole	4 pole	5 pole
A Series						
NC*FAH-D		Black Plastic	Gold	-	●[1]	●[1]
	NC*MAH	Black Plastic	Gold	●	●	●
NC*FAH-0		Black Plastic	Gold	●	●[1]	●[1]
	NC3MAH-0	Black Plastic	Gold	●	-	-
NC3FAHL-0		Black Plastic	Gold	●	-	-
NC3FAHR-0		Black Plastic	Gold	●	-	-
NC3FAH1-D		Black Plastic	Gold	●	-	-
NC3FAH1-0		Black Plastic	Gold	●	-	-
NC3FAHL1-D		Black Plastic	Gold	●	-	-
	NC3MAHL	Black Plastic	Gold	●	-	-
NC3FAHL1-0		Black Plastic	Gold	●	-	-
NC3FAHR1-D		Black Plastic	Gold	●	-	-
	NC3MAHR	Black Plastic	Gold	●	-	-
NC3FAHR1-0		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	-	●[1]	●[1]
	NC*MAV	Black Plastic	Gold	●	●	●
NC*FAV-0		Black Plastic	Gold	●	●[1]	●[1]
	NC3MAV-0	Black Plastic	Gold	●	-	-
NC3FAV1-D		Black Plastic	Gold	●	-	-
NC3FAV1-0		Black Plastic	Gold	●	-	-
NC3FAV2-D		Black Plastic	Gold	●	-	-
NC3FAV2-0		Black Plastic	Gold	●	-	-
A Series Switch						
NC5FAV-SW-D	NC5MAV-SW	Black Plastic	Gold	-	-	●

Female	Male	Shell	Contact	3 pole
AA Series				
NC3FAAH	NC3MAAH	Black Plastic	Gold	●
NC3FAAH-0		Black Plastic	Gold	●
NC3FAAH1	NC3MAAH-1	Black Plastic	Gold	●
NC3FAAH1-0		Black Plastic	Gold	●
	NC3MAAH-0	Black Plastic	Gold	●
NC3FAAH2		Black Plastic	Gold	●
NC3AAH2-0		Black Plastic	Gold	●
NC3FAAV	NC3MAAV	Black Plastic	Gold	●
NC3FAAV-0		Black Plastic	Gold	●
NC3FAAV1	NC3MAAV-1	Black Plastic	Gold	●
NC3FAAV1-0		Black Plastic	Gold	●
	NC3MAAV-0	Black Plastic	Gold	●
NC3FAAV2		Black Plastic	Gold	●
NC3FAAV2-0		Black Plastic	Gold	●

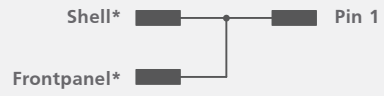
A Series – D version come with disassembled Push latch, version with assembled latch omit -D.
AA Series comes with Push Latch assembled.
A / AA Series rear mount only, all PCB mount except Y version = IDC
-DA: with asymmetric push
[1]: Grounding Option "2"
0: Retention Spring

Grounding Options

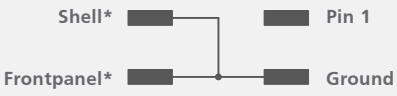
A / AA Series and B Series

Female - 3 pole

"1"

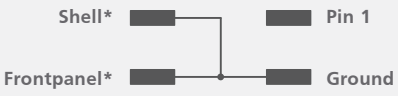


"2"



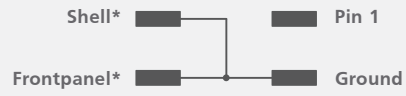
Female 4 & 5 pole

w/o number

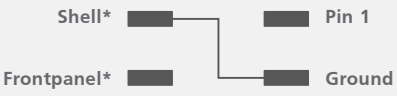


Male - 3, 4 & 5 pole

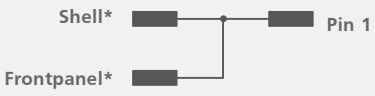
w/o number



"0" and L + R version



"1"



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

Ordering Information for Receptacles

B Series

Female	Male	Flange	Contact	3 pole	4 pole	5 pole
NC*FBH		Metal	Gold	-	●	●
	NC*MBH	Metal	Gold	●	●	●
NC5FBH-B	NC5MBH-B	Black Metal	Gold	-	-	●
	NC3MBH-B	Black Metal	Gold	●	-	-
	NC3MBH-0	Metal	Gold	●	-	-
NC3FBH1	NC3MBH-1	Metal	Gold	●	-	-
NC3FBH1-B		Black Metal	Gold	●	-	-
NC3FBHL1		Metal	Gold	●	-	-
	NC3MBHL	Metal	Gold	●	-	-
	NC3MBHL-B	Black Metal	Gold	●	-	-
NC3FBH2		Metal	Gold	●	-	-
NC3FBH2-B		Black Metal	Gold	●	-	-
	NC3MBHR	Metal	Gold	●	-	-
	NC3MBHR-B	Black Metal	Gold	●	-	-
NC3FBH1-E	NC3MBV-E	Metal	Gold	●	-	-
NC3FBH2-E		Metal	Gold	●	-	-
	NC3MBH-E	Metal	Gold	●	-	-
	NC*MBV	Metal	Gold	●	●	●
	NC3MBV-B	Black Metal	Gold	●	-	-
NC*FBV		Metal	Gold	-	●	●
NC5FBV-B	NC5MBV-B	Black Metal	Gold	-	-	●
NC3FBV1		Metal	Gold	●	-	-
NC3FBV1-B		Black Metal	Gold	●	-	-
NC3FBV2		Metal	Gold	●	-	-
NC3FBV2-B		Black Metal	Gold	●	-	-
	NC3MBV-0	Metal	Gold	●	-	-
	NC3MBV-1	Metal	Gold	●	-	-

B Series Switch

NC3FBV2-SW	NC3MBV-SW	Metal	Gold	●	-	-
NC5FBV-SW	NC5MBV-SW	Metal	Gold	-	-	●

XLR TOP Series

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

-DA: with asymmetric push

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

B: Series rear mount only

0: Retention spring on request

D Series

Female	Male	Shell	Contact	3 pole	4 pole	5 pole	6 pole	7 pole
NC3FD-V	NC3MD-V	Nickel	Silver	●	-	-	-	-
NC3FD-V-B	NC3MD-V-B	Black Cr	Gold	●	-	-	-	-
NC3FD-V-BAG	NC3MD-V-BAG	Black Cr	Silver	●	-	-	-	-
NC3FDM3-V	NC3MDM3-V	Nickel	Silver	●	-	-	-	-
NC3FDM3-V-B	NC3MDM3-V-B	Black Cr	Gold	●	-	-	-	-
NC3FD-H	NC3MD-H	Nickel	Silver	●	-	-	-	-
NC3FD-H-B	NC3MD-H-B	Black Cr	Gold	●	-	-	-	-
NC3FD-H-BAG	NC3MD-H-BAG	Black Cr	Silver	●	-	-	-	-
NC3FDM3-H	NC3MDM3-H	Nickel	Silver	●	-	-	-	-
NC3FDM3-H-B	NC3MDM3-H-B	Black Cr	Gold	●	-	-	-	-
NC3FDM3-H-BAG	NC3MDM3-H-BAG	Black Cr	Gold	●	-	-	-	-

DLX Series

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

DL Series

NC*FD-L-1	NC*MD-L-1	Nickel	Silver	●	●	●	●	●
NC*FD-L-B-1	NC*MD-L-B-1	Black Cr	Gold	●	●	●	●	●
NC*FD-L-BAG-1	NC*MD-L-BAG-1	Black Cr	Silver	●	●	●	●	-
NC*FDM3-L-1	NC*MDM3-L-1	Nickel	Silver	●	●	●	-	-
NC3FDM3LBAG-1	NC3MDM3LBAG-1	Black Cr	Silver	●	-	-	-	-
NC3FD-L-1-HE	NC3MD-L-1-HE	Velour Cr	Gold	●	-	-	-	-
NC*FDM3-H	NC*MDM3-H	Nickel	Silver	-	●	●	●	-
NC*FDM3-H-B	NC*MDM3-H-B	Nickel	Silver	-	●	●	-	-
NC*FDM3-H-BAG	NC*MDM3-H-BAG	Black Cr	Silver	-	●	●	-	-
NC3FD-S-1-B	NC3MD-S-1-B	Black Cr	Silver	●	-	-	-	-

0: Retention spring on request

DLX Crimp Series

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

Ordering Information for Receptacles

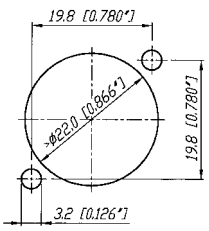
Female	Male	Shell	Contact	3 pole	4 pole	5 pole	6 pole	7 pole
EMC XLR								
NC3FDX-EMC-SPEC		Black Cr	Gold	●	-	-	-	-
Accessories								
FDR-1		Black round panel mounting flange with screws for larger panel cut-outs						
P Series								
NC*FP-1		Nickel	Silver	●	●	●	●	●
	NC*MP	Nickel	Silver	●	●	●	●	-
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	●	●	●	-	-

	Shell	Contact	5 pole	6 pole	9 pole	10 pole
Combo A Series						
NCJ6FA-H	Black plastic	Gold	-	●	-	-
NCJ6FA-H-0	Black plastic	Gold	-	●	-	-
NCJ6FA-H-DA	Black plastic	Gold	-	●	-	-
NCJ6FA-V	Black plastic	Gold	-	●	-	-
NCJ6FA-V-0	Black plastic	Gold	-	●	-	-
NCJ6FA-V-DA	Black plastic	Gold	-	●	-	-
Combo I 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	●	●	●	●

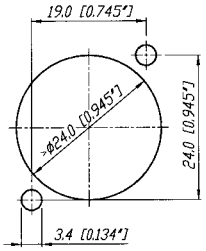
Contact #	1	2	3	T	R	S	TN	RN	SN	G	GN
NCJ5FI-*	x	x	x	x		x				x	
NCJ6FI-*	x	x	x	x	x	x				x	
NCJ9FI-*	x	x	x	x	x	x	x	x	x	x	
NCJ10FI-*	x	x	x	x	x	x	x	x	x	x	x

Panel Cutouts

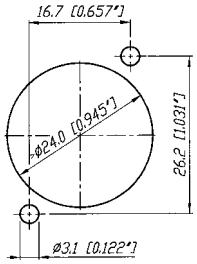
A / AA / B Series



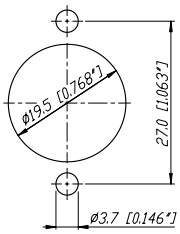
D / DL / DLX Series



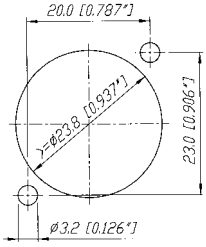
P Series Female



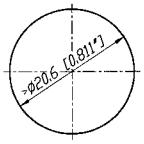
P Series Male



Combo



MPR Series



Color Coded Accessories

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

Accessories

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



Definitions, Abbreviations & Useful Information

ELEMENTS

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

ALLOYS, PLASTICS, POLYMERS

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

MEASUREMENT LEGEND

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

ENGLISH TO METRIC CONVERSIONS

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

METRIC TO ENGLISH CONVERSIONS

1 centimeter	0.3937	inches
1 meter	39.37	inches
3.281 meter	10	feet
10 meters	32.808	feet
50 meters	164.041	feet
100 meters	328.084	feet

OTHER ABBREVIATIONS

UL®	Underwriters Laboratories
IP Rating	Ingress Protection rating for objects and water ACC IEC529/EN60529
IEC	International Electrotechnical Commission is the international standards and conformity assessment body for all fields of electrotechnology
	UL Recognized Component Mark
	ENEC – European norms electrical certification, demonstrates compliance with European safety standards.
	VDE Association for Electrical, Electronic and Information Technologies e.V.
AWG	American Wire Gauge

NEUTRIK, crystalCON®, **ether**CON®, **max**CON®, **mini**CON®, **nano**CON®, **neutri**CON®, **optical**CON®, **power**CON®, **power**CON® **TRUE1, Profi®, rear**TWIST®, **silent**PLUG®, **speak**ON®, **TOP®, DiWA®, XIRIUM®, are registered trademarks of Neutrik AG.**

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
	-DA	Asymmetric PUSH
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	Laterial left PCB mount
	HR	Laterial right PCB mount
	L	Solder cups
	V	Vertical 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, D, DL, DLX, MPR, P, PX, RX, X, XX**	
Gender:	**F**	Female
	M	Male
Number of Contacts:	**2, 3, 4, 5, 6, 7, 8, 12**	
Connector Type:	**A**	Adapter
	AC	powerCON®
	B	BNC
	C	XLR
	D	dummyPLUG
	E	etherCON® - RJ45
	F	RCA / CINCH
	J (MJ, RJ, SJ)	Jack
	K	Cable Assembly
	L	speakON® - Loudspeaker
	M	Module
	O	opticalCON® - Fiber Optic Connector
	P	Plug
	PP	Patch Panel
	R	Circular Connector
	T	Transformer
	TOP	True Outdoor Protection

Definitions, abbreviations & useful information see page 33.

Neutrik® Product Line

XLR Connectors



X Series | XX Series | TOP Series | RX Series | XS Series | A Series | AA Series | B Series | TOP Series | D Series | DL Series | DLX Series | P Series | MPR Series | Combo I Series | Combo A Series

Plugs & Jacks



PX Series | silentPLUG® | timbrePLUG® | ultimatePLUG® | MIL/B-Gauge Type Plugs | 0.173" Bantam | 3.5 mm Plug | Cable Jack | Chassis Jacks | Vertical Jacks | Slim Jacks | M Jacks | Stacking Jacks | Phono - Profi® | Phono - Socket

speakON® Connectors



speakON® SPX Series | speakON® FC Series | speakON® Adapter | speakON® Chassis Connectors | speakON® Combo | speakON® STX Cable & Chassis Connector

Data Connectors



opticalCON® Cable & Chassis Connectors

USB Cable & Chassis Connectors



HDMI Cable & Chassis Connectors

etherCON® Cable & Chassis Connectors

etherCON® TOP

mediaCON Cable & Chassis Connectors

75 Ohm BNC Connectors



rearTWIST® | Female Cable Jack | Chassis | Bulkhead Jacks | Tiny Cable Jack

Circular Connectors



nanoCON® Cable & Chassis Connectors

miniCON® Cable & Chassis Connectors

neutriCON® Cable & Chassis Connectors

powerCON® Connectors



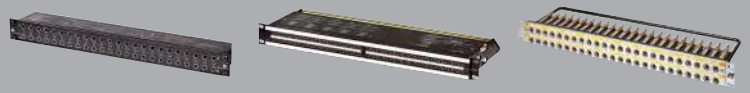
powerCON® TRUE1® TOP Cable & Chassis Connectors



powerCON® Cable & Chassis Connectors

32 A powerCON® Cable & Chassis Connectors

Patch Panels



1/4" Patch Panel

NPPA Series - 96 Bantam (TT) Jacks

LF 48 B-Gauge Patchbays

Accessories



Circular Adapters

DMX Adapters

XLR Feedthrough



D Shape Adapters

AES / EBU Digital Impedance Transformer Adapters



etherCON® CAT6A Adapter

Modules & Audio Transformers

Goosenecks

Digital Audio Network



NA2-IO-DPRO

NA2-IO-DLINE

NPS-30W

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