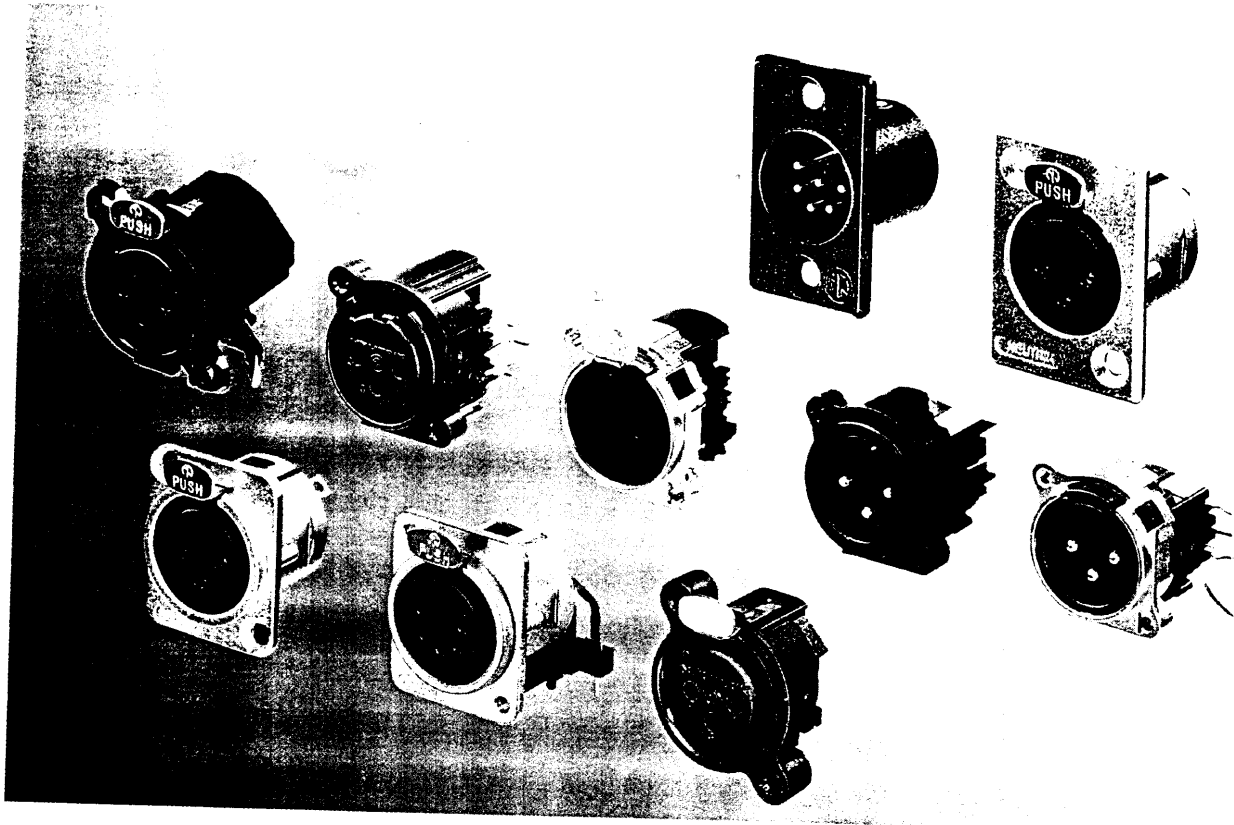


724 506 to 555

-724 506 to 555 -

XLR

Receptacles



WE ARE SETTING STANDARDS

- ***Eight different series to cover all conceivable applications***
- ***From the world largest and most innovative XLR-manufacturer***
- ***Easy to assemble, simple to use***
- ***Reliable, robust with a worldwide reputation***



NEUTRIK

CONNECTING THE WORLD

CONNECTORS

AUDIO TEST SYSTEMS

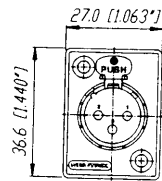
PRODUCT FEATURES

DIMENSIONAL DRAWINGS

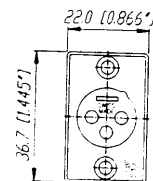
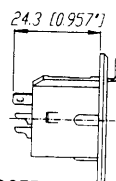
(PCB layouts and dimensional drawings on request)

P Series

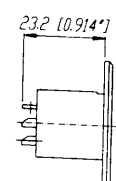
Smallest available hard wiring "CLASSICS"
Large solder cups.



NC3FP

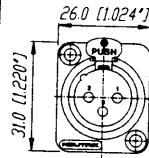


NC3MP

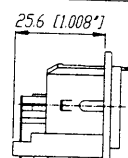
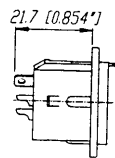


DL Series

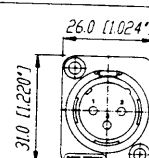
Unified metal shell for male and female. RF-protected.
Solder cups, or PCB terminations (4 & 5 pole only).



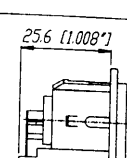
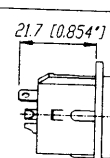
NC3FDL



NC*FDM3-H



NC3MDL

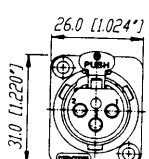


NC*MDM3-H

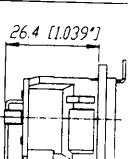
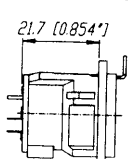
* = 4-5 pole

D Series

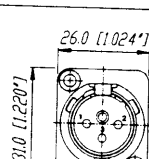
Unified metal shell for male and female. Insert premounted to PCB, shell to enclosure, front locked / unlocked.
RF-protected.



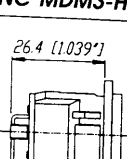
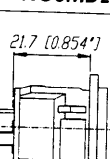
NC3FD-V



NC3FD-H



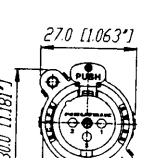
NC3MD-V



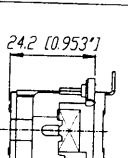
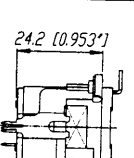
NC3MD-H

K Series

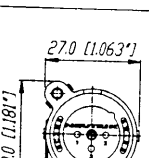
Extremely versatile and cost effective concept.
Metal brackets secure the socket to the PCB, machine insertable.
M3-thread screw holes with panel-ground contacts.



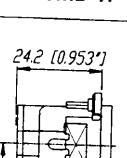
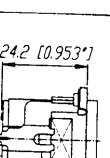
NC3FK-V



NC3FK-H



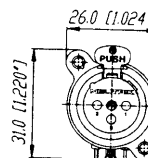
NC3MK-V



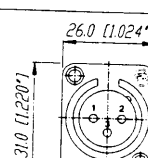
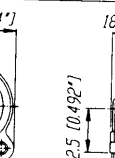
NC3MK-H

R Series

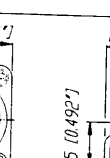
Small size, low cost.
XLR-sockets without ground contact, available with or without latch. Gold contacts on female.



NC3FPR-H

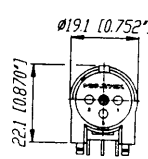


NC3MPR-H

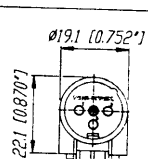
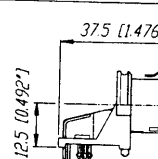


E Series

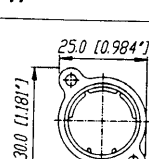
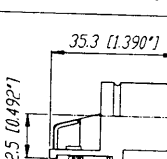
Minimum weight, direct to the PCB, right angle sockets.
Escutcheon available. Gold contacts on female.



NC3FE



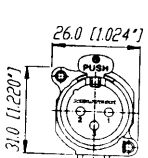
NC3ME



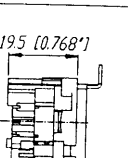
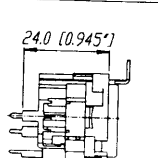
NHE

A and B Series

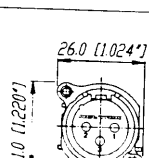
The new "State of the Art" receptacle.
Smallest size / highest packing density.
New designed contacts with polished contact areas and hard gold plating. TF-contacts.
Variety of shell and chassis grounding facilities, direct "Pin 1" to chassis ground connection available.
Special B series version with additional ground contacts for better RF-protection available.



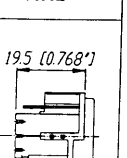
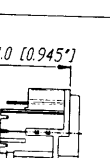
NC3F*V



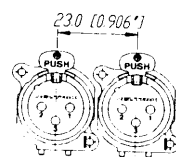
NC3F*H



NC3M*V



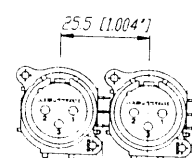
NC3M*H



H, V and Y

Assembly distances for

HL and HR



* = A or B

Type Nr. CODING				SPECIAL VERSIONS/ REMARKS	SPECIFICATIONS																									
SHELL	CONT.	FEMALE	MALE		TYPE SPECIFIC	COMMON																								
Nickel	Silver	NC*FP	NC**MP	Compatibility: Switchcraft* DxM, DxF Cannon XLRx31, XLRx32 Dimensionally with D series *: 6-pole version with Switch- craft contact arrangement (6 FS/MS) available: contact factory	ELECTRICAL Number of contacts: 3-7 (except MP: 3-6) Rated current: see chart under common specs. MATERIALS Shell: ZnAlCu1, gal Ni or black chromium (Cr) plating Contacts - female (4-7 pole) & male: CuZn39Pb3 Contact surface: gal 2 µm Ag or gal 0.3 µm Au hard alloy over 2 µm Ni	ELECTRICAL Rated voltage: 250 V ac Dielectric strength: 1500 V dc Contact resistance: ≤ 5 mΩ Insulation resistance (Initial): >2·10 ⁹ Ω Insulation resistance after damp heat test: >1·10 ⁹ Ω																								
Black Cr	Gold	NC*FP-B	NC**MP-B																											
	Silver	NC3FP-BAG	NC3MP-BAG																											
* = 3-7 pole ** = 3-6 pole				PCB versions (4 & 5 pole): horizontal PCB mounting, fastening by chassis mounting holes with M3 threads or by self tapping PT® screws with thread 2.9x1.06 (tri-rondular) direct to PCB		P-, DL-Series: <table><tr><th>x</th><th>I (A)</th><th>□ (mm²/ AWG)</th><th>C (pF)</th></tr><tr><td>3</td><td>16</td><td>2.5/14</td><td>≤ 4</td></tr><tr><td>4</td><td>10</td><td>1.5/16</td><td>≤ 7</td></tr><tr><td>5</td><td>7.5</td><td>1.0/18</td><td>≤ 7</td></tr><tr><td>6</td><td>7.5</td><td>1.0/18</td><td>≤ 7</td></tr><tr><td>7</td><td>5</td><td>1.0/18</td><td>≤ 9</td></tr></table> x ... No. of contacts I ... Rated current per contact □ ... Max. wire size C ... Capacitance between contacts	x	I (A)	□ (mm²/ AWG)	C (pF)	3	16	2.5/14	≤ 4	4	10	1.5/16	≤ 7	5	7.5	1.0/18	≤ 7	6	7.5	1.0/18	≤ 7	7	5	1.0/18	≤ 9
x	I (A)	□ (mm²/ AWG)	C (pF)																											
3	16	2.5/14	≤ 4																											
4	10	1.5/16	≤ 7																											
5	7.5	1.0/18	≤ 7																											
6	7.5	1.0/18	≤ 7																											
7	5	1.0/18	≤ 9																											
Nickel	Silver	NC*FDL	NC*MDL																											
Black Cr	Gold	NC*FDL-B	NC*MDL-B	Mounting holes with M3 threads: add suffix "-M3" Females: Retention spring instead of latch: add suffix "-0"	ELECTRICAL Number of contacts: 3 Rated current: 6 A MATERIALS Shell: ZnAl4Cu1, gal Ni or black Cr plating Contacts: - male: CuZn39Pb3 Contact surface: gal 2 µm Ag or gal 0.3 µm Au hard alloy over 2 µm Ni	MECHANICAL Insertion / withdrawal force: ≤ 20 N / ≤ 10 N Retention method: - standard: latch lock - "-0" version: retention spring Separating force: ≥ 20 N																								
	Silver	NC*FDL-BAG	NC*MDL-BAG																											
Nickel	Silver	NC+MDM3-H	NC+MDM3-H																											
Black Cr	Silver	NC+MDM3-H-BAG	NC+MDM3-H-BAG	Version without brackets: contact factory Compatibility: Cannon XLB Switchcraft PQG Females: Retention spring instead of latch: add suffix "-0"	ELECTRICAL Number of contacts: 3 Rated current: 6 A MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag	ENVIRONMENTAL Temperature range: -30°C to +80°C Flammability: UL 94HB Solderability: complies with IEC 68-2-20																								
+ = 4 or 5 pole																														
Nickel	Silver	NC3FD-V	NC3MD-V																											
Black Cr	Gold	NC3FD-V-B	NC3MD-V-B	Females: Retention spring instead of latch: add suffix "-0", no ground contact Vertical versions: contact factory	ELECTRICAL Number of contacts: 3 MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag	MATERIALS Insert: PA 6.6 30% GR (glass reinforced) Contacts: - female (3-pole): CuSn6 Latch lock & spring: CK 67 steel, treated																								
	Silver	NC3FD-V-BAG	NC3MD-V-BAG																											
Nickel	Silver	NC3FD-H	NC3MD-H																											
Black Cr	Gold	NC3FD-H-B	NC3MD-H-B	Accessory: Snap on escutcheon NHE with mounting holes for selftapping screws PT-K30 Compatibility: Switchcraft RAPC series	ELECTRICAL Number of contacts: 3 MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag																									
	Silver	NC3FD-H-BAG	NC3MD-H-BAG																											
PA 6.6 GR	Silver	-	NC3MK-V																											
	Gold	NC3FK-V	-	Females: Retention spring instead of latch: add suffix "-0", no ground contact Vertical versions: contact factory	ELECTRICAL Number of contacts: 3 MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag																									
	Silver	-	NC3MK-H																											
PA 6.6 GR	Gold	NC3FK-H	-																											
	Silver	-	NC3MPR-H	Accessory: Snap on escutcheon NHE with mounting holes for selftapping screws PT-K30 Compatibility: Switchcraft RAPC series	ELECTRICAL Number of contacts: 3 MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag																									
	Gold	NC3FPR-H	-																											
PA 6.6 GR	Silver	-	NC3ME-H																											
	Gold	NC3FE-H	-	Accessory: Snap on escutcheon NHE with mounting holes for selftapping screws PT-K30 Compatibility: Switchcraft RAPC series	ELECTRICAL Number of contacts: 3 MATERIALS Shell (Insert): PA 6.6 30% GR Contacts: - male, CuZn35Pb2 Contact surface: - female: 0.5 µm Au cladded - male: gal 2 µm Ag																									
	Silver	-	NC3ME-H																											
PA 6.6 GR	Gold	NC3FE-H	-																											

Series

Termination

Grounding

Retention / Shell

NC3F	X	X	X	X
A				# plastic shell & latch lock
				-0 plastic shell & retention spring
B				# Ni metal shell
				-B black Cr metal shell
H				horizontal PCB
V				vertical PCB
HR				lateral right PCB
HL	1			lateral left PCB
Y	#			IDC
	1			pin "1" & ground connected
	2			ground separated

Series

Termination

Shell lock

NC3M	X	X	X
A			# plastic shell
			# Ni metal shell
B			-B black Cr metal shell
H			horizontal PCB
V			vertical PCB
HR			lateral right PCB
HL			lateral left PCB
Y			IDC

#...skip this place

REMARKS
Version with IDC wiring:
Applicable wire size AWG 24 and 26

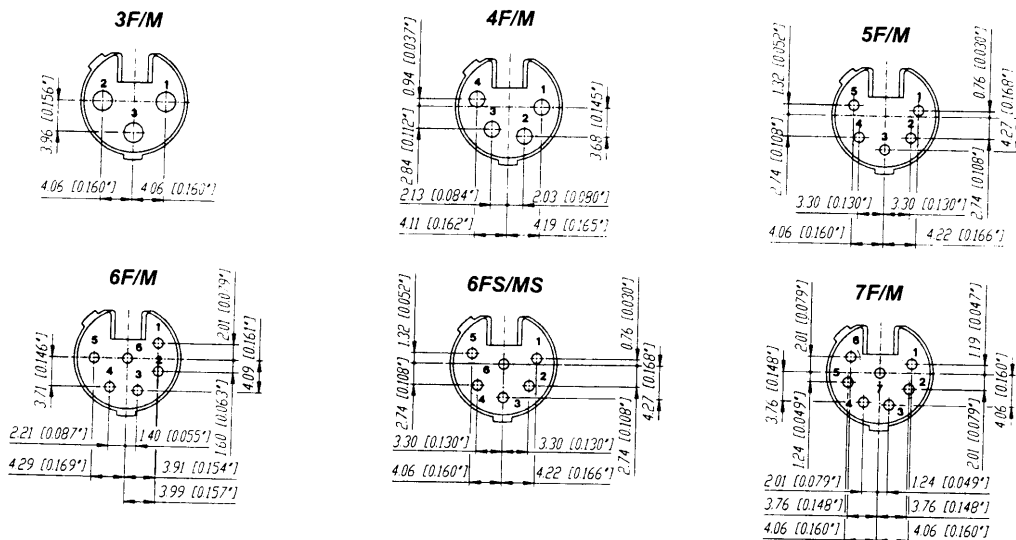
Special version for B series with additional ground contacts: add suffix "E"

Special non quoted versions available on request.

Fastening:
A-series: self tapping PT® screws with thread 2.9x1.06 and tri-rondular configuration
B-series: TAPTITE® screws M2.5 (tri-rondular)

CONTACT ARRANGEMENTS

FEMALE: Mating side
MALE: Wiring side



NEUTRIK "THE CONNECTOR INNOVATORS"

The "Chuck Principle" Strain Relief
The Helicon® Contact
The first Unified Male-Female XLR Receptacle
The first Rear Mount XLR Receptacle
The first direct to PCB XLR Receptacle
The Screwless Cable Connector
The Smallest Cable Connector
The first Locking Phone Jack
The first Fully Modular Connecting System
The first Die-Cast Phone Plug
The first Heavy Duty Waterproof XLR Connector
The first Safety-Proof & AVC-Proof Speaker-Amplifier Connecting System
The first Fully Crimped 1/4" Plug
The first "Ground Before Signal" Phono Plug
The Smallest XLR Socket
The first 1/4" Jack with separated retention
The first Bantam Plug with separated retention and gold contacts
The first combined Jack-XLR Receptacle
The smallest and most universal XLR Receptacle

(C Series et al.)	1975
(D Series)	1975
(D Series)	1980
(D Series)	1980
(D Series)	1980
(X Series)	1981
(X Series)	1981
(J Series)	1981
(NEUTRICON®)	1982
(P Series)	1983
(HD Series)	1986
(SPEAKON®)	1987
(KIK)	1988
(PROFI)	1989
(R Series)	1990
(J Series)	1990
(TT Series)	1991
(Combo)	1992
(A/B Series)	1995

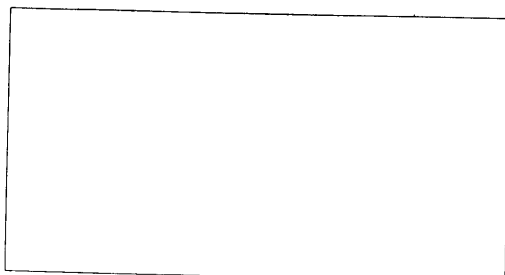
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XLR / E-5/96



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