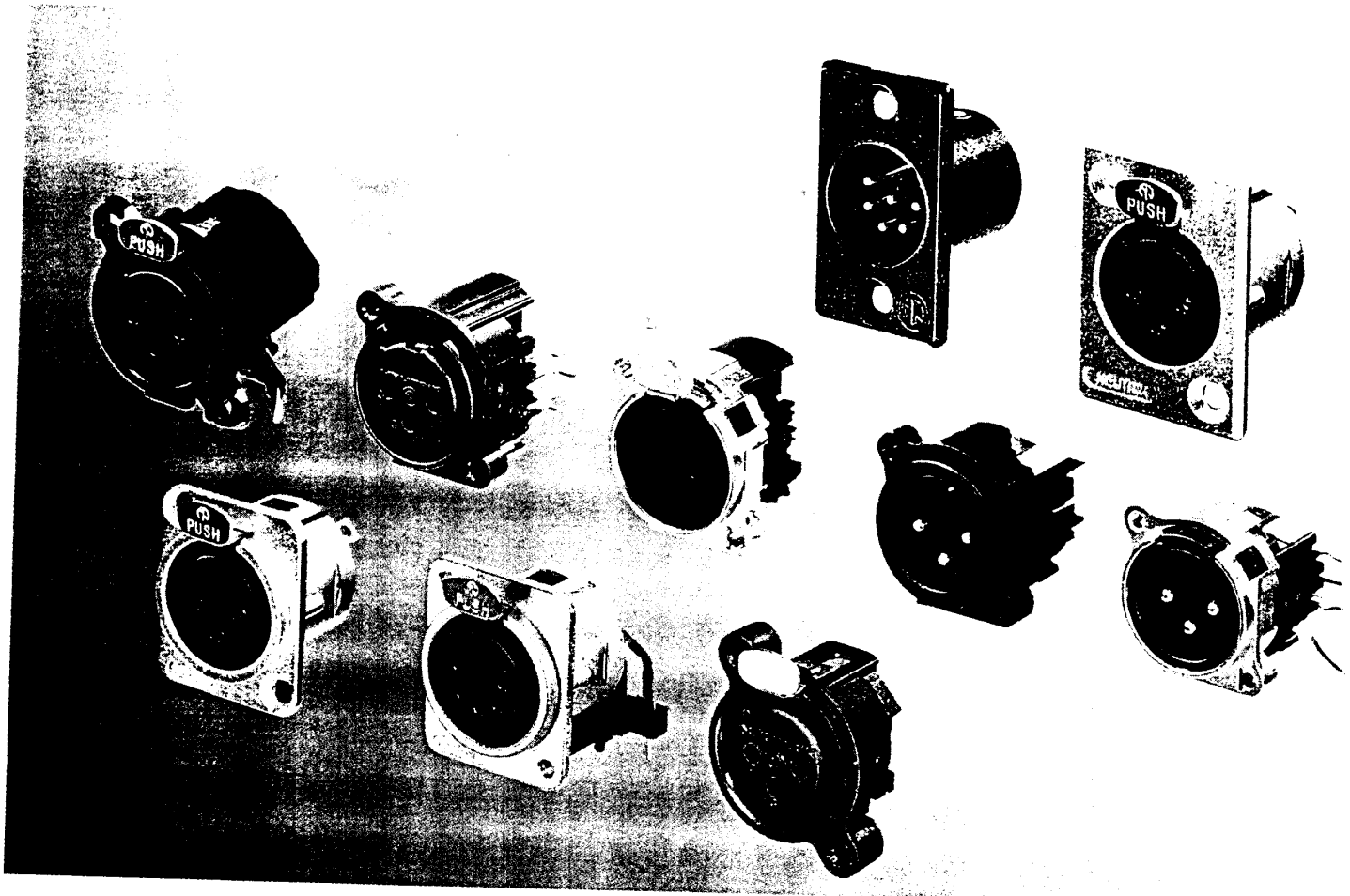


-724-506 to 555-

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

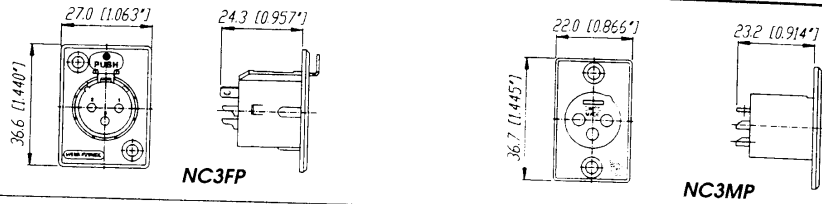
PRODUCT FEATURES

DIMENSIONAL DRAWINGS

(PCB layouts and dimensional drawings on request)

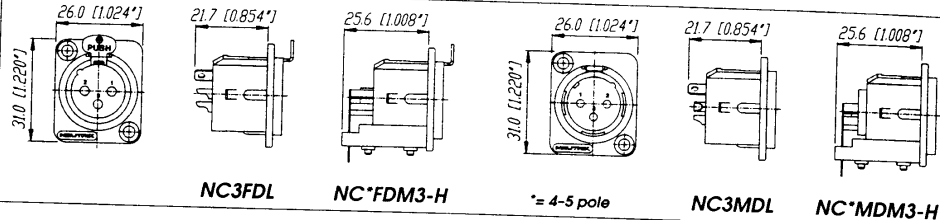
P Series

Smallest available hard wiring "CLASSICS"
Large solder cups.



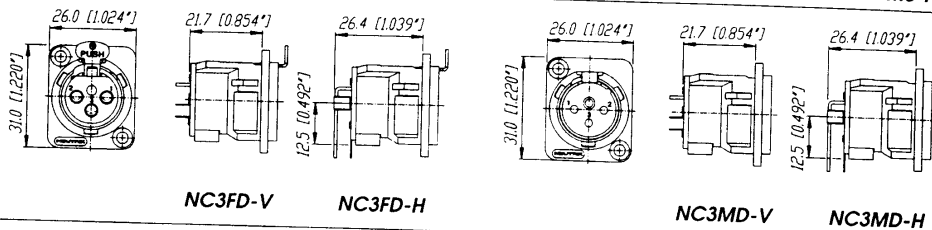
DL Series

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



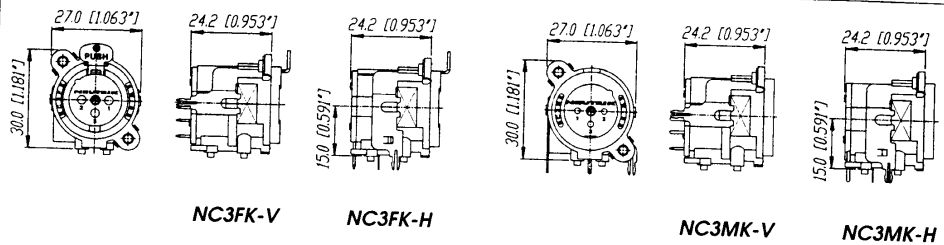
D Series

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



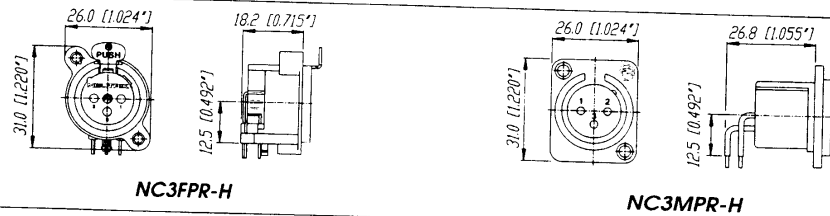
K Series

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



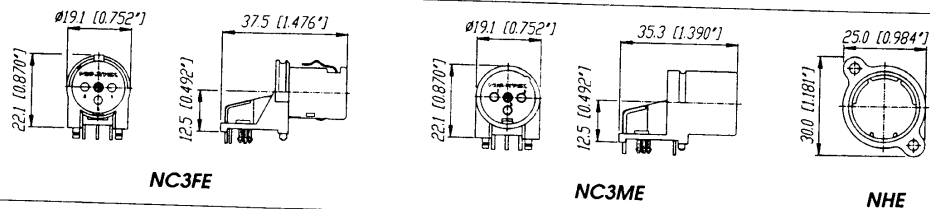
R Series

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



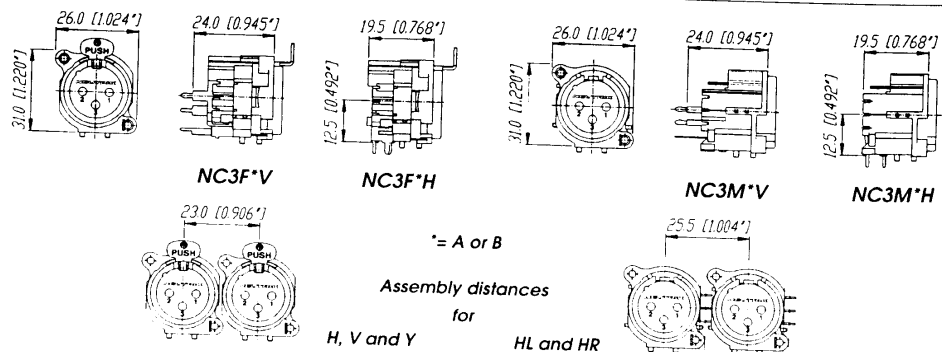
E Series

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



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.



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 Switchcraft 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 (unless otherwise stated) 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 P-, DL-Series: <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr> <th>x</th> <th>I (A)</th> <th>□ (mm²/AWG)</th> <th>C (pF)</th> </tr> </thead> <tbody> <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> </tbody> </table>	x	I (A)	□ (mm ² /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)	□ (mm ² /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																												
	Black Cr	Gold	NC*FP-B	NC**MP-B	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 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	x ... No. of contacts I ... Rated current per contact □ ... Max. wire size C ... Capacitance between contacts																								
		Silver	NC3FP-BAG	NC3MP-BAG																											
* = 3-7 pole ** = 3-6 pole																															
	Nickel	Silver	NC*FDL	NC*MDL	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 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: CuZn35Pb2 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																								
	Black Cr	Gold	NC*FDL-B	NC*MDL-B																											
		Silver	NC*FDL-BAG	NC*MDL-BAG																											
	Nickel	Silver	NC+FDM3-H	NC+MDM3-H	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: gal 2 µm Ag or gal 0.3 µm Au hard alloy over 2 µm Ni	ENVIRONMENTAL Temperature range: -30°C to +80°C Flammability: UL 94HB Solderability: complies with IEC 68-2-20																								
	Black Cr	Silver	NC+FDM3-H-BAG	NC+MDM3-H-BAG																											
+ = 4 or 5 pole																															
	Nickel	Silver	NC3FD-V	NC3MD-V	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: gal 2 µm Ag or gal 0.3 µm Au hard alloy over 2 µm Ni	MATERIALS Insert: PA 6.6 30% GR (glass reinforced) Contacts: - female (3-pole): CuSn6 Latch lock & spring: CK 67 steel, treated																								
	Black Cr	Gold	NC3FD-V-B	NC3MD-V-B																											
		Silver	NC3FD-V-BAG	NC3MD-V-BAG																											
	Nickel	Silver	NC3FD-H	NC3MD-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	Latch lock & spring: CK 67 steel, treated																								
	Black Cr	Gold	NC3FD-H-B	NC3MD-H-B																											
		Silver	NC3FD-H-BAG	NC3MD-H-BAG																											
	PA 6.6 GR	Silver	-	NC3MK-V	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	Latch lock & spring: CK 67 steel, treated																								
		Gold	NC3FK-V	-																											
		Silver	-	NC3MK-H																											
		Gold	NC3FK-H	-																											
	PA 6.6 GR	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	Latch lock & spring: CK 67 steel, treated																								
		Gold	NC3FPR-H	-																											
		Silver	-	NC3ME-H																											
		Gold	NC3FE-H	-																											

				FEMALE			
	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		

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

... skip this place

ELECTRICAL
 Number of contacts: 3
 Rated current: 6 A

MATERIALS
 Shell (Insert): PA 6.6 30% GR
 Flammability: UL 94 V-0
 Ring (B-series): ZnAl4Cu1

Contacts:
 - male: CuZn35Pb2
 Contact surface:
 gal 0.1 µm AuCo over 2 µm NiP15 (Tribor)

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

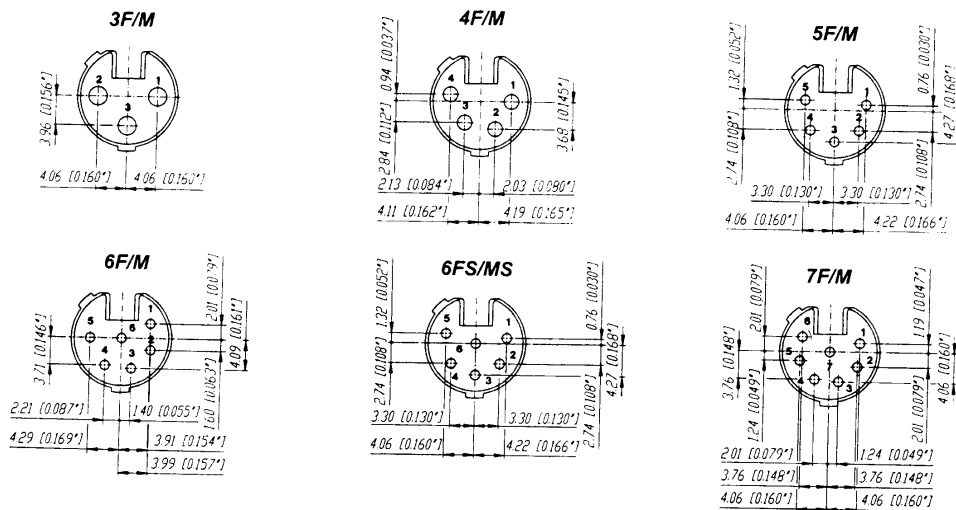
Special version for B series with additional ground contacts: add suffix "E"

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
- 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

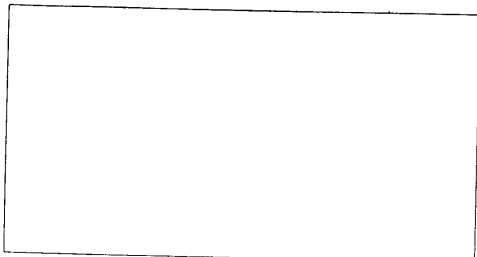
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XLR / E-596



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