

Product Guide 2015 / 16



setting standards

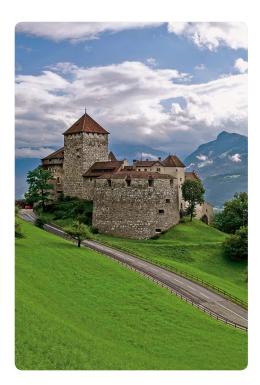




The Neutrik[®] Line

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About Liechtenstein

The Principality of Liechtenstein is located in the middle of Europe, situated between Switzerland and Austria, snow-covered mountains and sunny valleys.

With a total area of only 160 km² Liechtenstein is the fourth smallest country in Europe.

Liechtenstein's economy has a significant emphasis on industrial production. The production sector provides about 40% of the jobs, which in comparison with other European countries is extraordinarily high.

The jobs of the industrial sector are provided by 593 enterprises. They are active in a large number of specialised market niches and contribute to the broad diversification of Liechtenstein's economy. Due to Liechtenstein's limited domestic market, especially the larger enterprises are heavily exportoriented. A vast majority of their goods production is sold abroad.

The most important export countries of Liechtenstein's industry are Switzerland, Germany and the USA.

Liechtenstein in brief:

Area: 160.5 km² | Capital: Vaduz | Inhabitants: 36,942 Currency: Swiss franc | Neighboring countries: Switzerland, Austria Official language: German | Time zone: CET | System of State: constitutional hereditary monarchy on a democratic and parliamentary basis







About Neutrik[®]

Neutrik is an international corporation with four decades of know-how and experience in the manufacture of innovative electrical and electronic interconnection products and systems.

The company was founded in 1975 as a two man operation with the idea to creating innovative products utilizing the latest in mechanical and electronic know-how and creativity. Today we are the world leader in the design, manufacture and marketing of audio, coaxial, power and circular connectors. Our main priority is to be "one step ahead", i. e. to understand the future market needs before they become obvious and to accommodate demands before they occur.

From the beginning Neutrik has concentrated on the development of innovative audio connector products. Today Neutrik leads the way in the professional audio market.

Our audio range includes XLR connectors, plugs, jacks, speaker connectors, patch bays and fiber optic connection systems. Many patents granted, numerous patents pending and the many license agreements since our beginning in 1975, evidence Neutrik's innovation and creative achievements. No doubt, our customers have the confidence in having high quality products at an unsurpassed cost/performance ratio whenever they come across Neutrik.

Neutrik's strong market position results from the ability to be aware of market needs at an early stage and to meet these requirements quickly by innovative and customized designs and stage-of-the-art production technologies. Neutrik is committed to excellence in innovation, quality based on ISO 9001-2008 and fair partnership with customers.

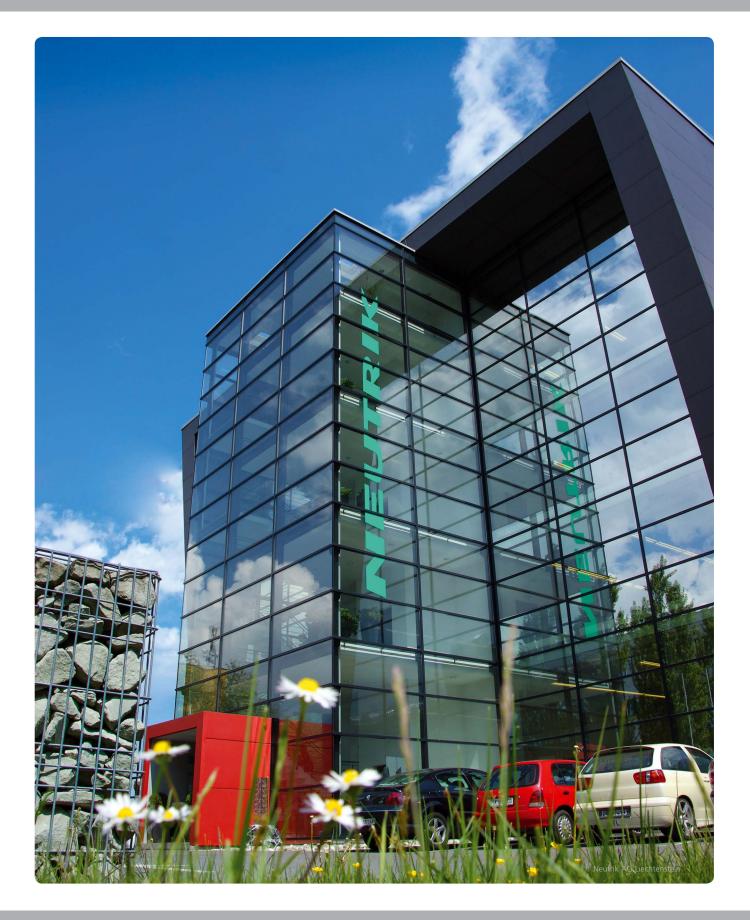
The Neutrik story started in a barn. The first shipments were made ready for dispatch in this building which was the home of Neutrik unit 1984 (left). In 2004 the Neutrik team moved into the new multifunctional premises "Im alten Riet 143" in Schaan (right).















Worldwide distribution network

Argentina, Armenia, Australia, Australia, Azerbaijan, Bangladesh, Bahrain, Belarus, Belgium, Bosnia-Herzegovina, Brazil, Brunei, Bulgaria, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cuba, Curacao, Cyprus, Czech Republic Denmark, Dominican Republic, El Salvador, Estonia, Ecuador, Fiji Islands, Finland, France, Germany, Great Britain, Greece, Guatemala, Hungary, Hong Kong, Iceland, India, Indonesia, Iran, Israel, Italy, Japan, Jordan, Korea, Kuwait, Latvia, Lebanon, Lithuania, Luxenburg, Macau, Macedonia, Malaysia, Maldives, Malta, Marocco, Mauritius, Mexico, Myanmar, New Caledonia, New Zealand, Norway, Oman, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Syria, Tahiti, Taiwan, Thailand, Trinidad & Tobago, Tunisia, Turkey, Ukraine, United Arabian Emirates, Uruguay, USA, Venezuela, Vietnam

Neutrik[®] Group

The Neutrik Group consists of strategically placed subsidiaries in the United States of America, Great Britain, France, Japan, China, India and Germany. A network of exclusive distributors in more than 80 countries worldwide provides international sales, technical support and distribution.

The corporate headquarters is located in Schaan in the Principality of Liechtenstein where all operations such as management, R&D, logistics, manufacturing and finance are situated.

Customer Service

It is the Neutrik philosophy to be customer-oriented and to stay in close contact with our customers all over the world, using an international network of subsidiaries, associated companies and distributors.



Environmental Compatibility

Neutrik is committed to the protection of environmental resources and to the development and production in an environmentally acceptable manner with respect to health and safety.

We comply with all relevant government laws and directions which relate to environmental protection. We support with all means the protection of natural resources by economizing the use of materials and by recycling waste. We develop products and processes which are safe, conserve energy and make use of materials which have a minimum impact on the environment and, where possible, permit recycling.

All production methods are based on environmentally sound handling and the elimination of hazardous material. Some time before the amended EU Directive RoHS (Reduction of Hazardous Substances) came into force on July 1st 2006, Neutrik already complied with these requirements laid down therein and stopped using lead in the soldering process at the end of 2004. In addition Neutrik conforms to the following EU Directives and regulations:

EU 1907/2006EC (REACH) EU 2011/65/EC (RoHS2) EU 2002/95/EC (RoHS1) EU 2002/96/EC (WEEE) Sony Technical Standard SS-00259 (Sony Green Partner)

Innovation

Neutrik's innovations are based on the sum of our long-term experience.

The use of intelligent technologies, state-of-the-art materials and standardized processes are a tradition at Neutrik. Out of Neutrik's visionary ideas unique products and solutions arise continuously which set new standards around the world, evidenced by our innumerable patents.

With Neutrik's continuous efforts in research and development we will offer our customers added value with innovative developments in the future as well.

Continuity

In a fast moving world Neutrik focuses on sustainable concepts, long-term relationships and reliable promises.

Continuous innovation, brilliant inventions and consistent customer orientation made us successful. Our products have set the standards for more than 35 years.

Today as in the past, we are characterized by the ability to accept changes, to identify and realize customer demands and market trends. The future of our company is built on our successful past.

Neutrik remains the company everyone knows and relies upon – Neutrik is more than a supplier – we are a reliable partner whose name stands for innovative solutions, superior quality and continuity.

Quality

Highly trained employees, state-of-the-art production facilities and standardized workflows ensure superior quality.

Every product Neutrik sends out to its customers fulfils the highest functional and reliability requirements. The use of high class materials, proven production processes incorporating continuous manufacturing and final tests guarantee a consistent high quality level.

Neutrik's up-to-date management system with clearly defined workflows, rigorous quality control and continuous improvement of all processes is the basis for our customers satisfaction.

The interaction of reliability, innovation and superior quality results in tangible benefits for our customers.





since 1975





Production

The professional entertainment industry depends on reliable components - night in, night out. Neutrik[®] – the world's leading manufacturer of professional connector systems – sets the standards in technical reliability, warranty and durability. Availability of products as well as technical support and excellent service are to be understood as priority objectives. Besides cutting-edge precision, functionality and design make the difference and build the basis for our complex demand for high quality standards.

To realize our innovative product ideas and to meet the requirements of our customers we make use of all possibilities which modern R&D and production technologies can offer. Neutrik has developed and proven its own automated manufacturing methods. The professional mechanics of the automation department work with state-of-the-art technologies like video control systems and robotics.

Together with the systematic quality control the high precision robotic production processes ensure continuous quality and efficient delivery of goods to the right place at the right time.









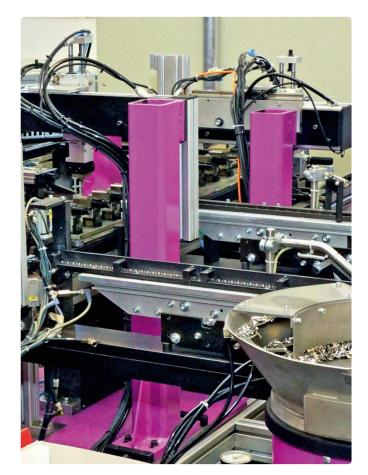




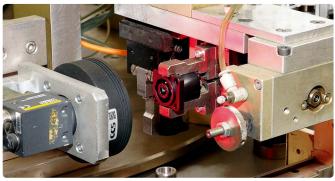




since 1975















🚯 Neutrik[®] Part Number Guide

NC3FAH1-B-0-D

Packaging:	D	Cable connector: bulk packed
Assembly:	D	Chassis connector: disassembled push latch
Retention:	w/o	Latch lock
	-0	Retention spring
Shell:	В	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 Pir
	E	Additional ground contacts
	w/o number	No ground /shell contact (except 4/5 pole), female only
Termination:	Н	Horizontal PCB mount
	HL	Laterial left PCB mount
	HR	Laterial right PCB mount
	L	Solder cups
	V	Verticale PCB mount
	Y	IDC for wires (no ground)
	М3	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
	м	Male
Number of Contacts	s: 2, 3, 4, 5, 6, 7, 8,	, 12
Connector Type:	Α	Adapter
	AC	powerCON
	В	BNC
	с	XLR
	D	dummyPLUG
	E	etherCON - RJ45
	F	RCA / CINCH
	J (MJ, RJ, SJ)	Jack
	К	Cable Assembly
	L	speakON - Loudspeaker
	м	Module
	0	opticalCON - Fiber Optic Connector
		Plug
	Р	indg
	P PP	Patch Panel
		5
	PP	Patch Panel

Definitions, abbreviations & useful information see page 184.





XLR Connectors



Content	Page
A glance into the future	
maxCON	
Cable Connectors:	
XX Series	
EMC-XLR Series	
RX Series	
XX-HE Series	
XX-14 Series	
XX Crimp Series	
crystalCON	
XX-HD Series	
X Series	
X-HD Series	
XCC Series	
FXS Series	
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Technical Data	
Ordering Information	
Receptacles:	20
A Series	
B Series	
A/B Series - switch	
D Series	
DL Series	
DLX Series	
DLX Crimp Series	
EMC Series	
MPR-HD Series	
P Series	
Combo Series	
Combo A Series	
Accessories Technical Data	
Ordering Information A/AA Series	
Ordering Information B Series	
Ordering Information D / DL / DLX / DLX Crimp	
Ordering Information EMC / P / MPR-HD	
Ordering Information Combo / Combo A Series	
Panel Cutouts, Assembly Tools	
NEUTRIK® , crystalCON®, etherCON®, maxCON®, m	

nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.

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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.



A glance into the future: maxCON[®] – the new XLR standard

Neutrik's success story began with the construction of the first prototype of a new XLR female cable connector. The first NC3FC products were delivered in October 1975. During the years 1976, 1977 and 1978 this product range was continuously reworked and improved. In 1983 a new concept was introduced with the X series that has become a world standard. The further development of the X series leading to the XX series with the unique protection against copying, the hologram, is based on this hundred million times sold X series.

1×45°

The next generation of audio connectors – maxCON[®] – will offer unique features and benefits based on the small and innovative design.

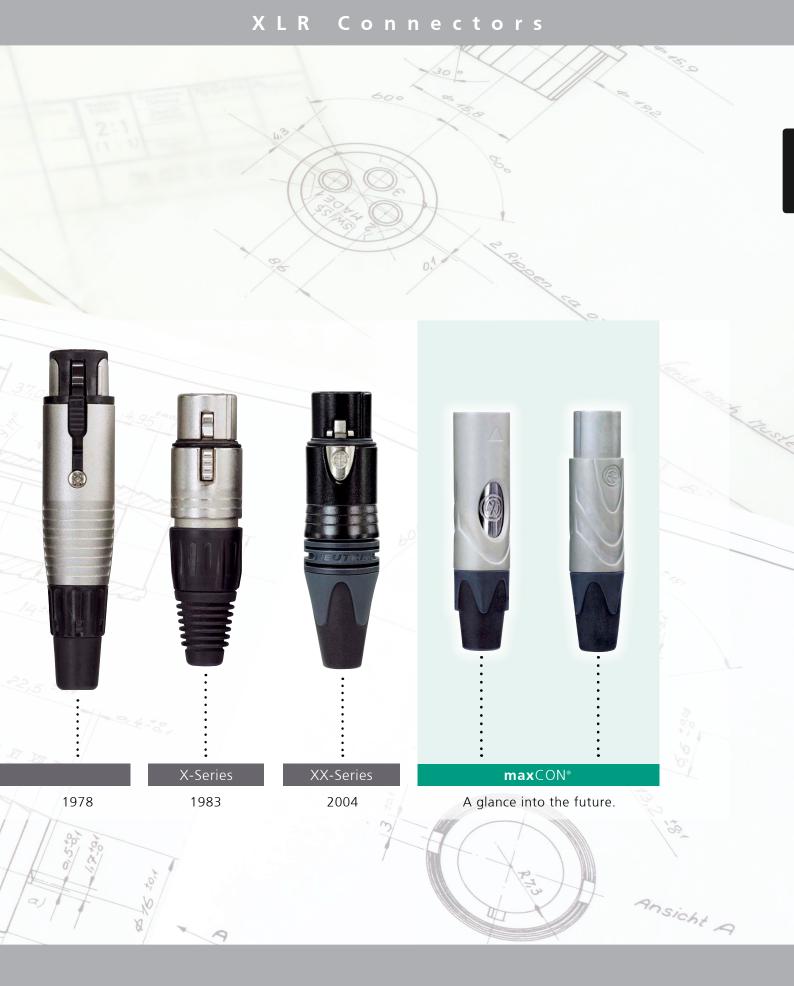


1975

1975

1976

1977







Ergonomic latch

design



White painted housing



XX Series



Circumferential ground shield contact



Neutrik hologram

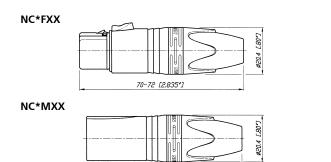
EMC-XLR Series



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
- Unique hologram guarantees genuineness and protects against counterfeits
- Internal thread on shell is well protected against any damage

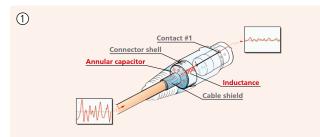


67-69 [2.637"-2.717"]

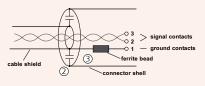




- 3 pole male / female XLR cable connector with integrated capacitive shield to shell connection to avoid RF-interference and LF-noise
- 360° shield contact on female connector ensures best possible shielding and chassis contact
- Patent



- 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



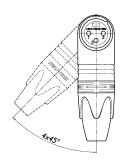
High temperature resistant insulator



Velour chromium housing

RX Series





NC3FRX-BAG

Outlet position

\$20.4 [.80".

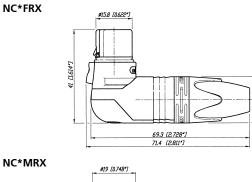
- Right angle version of the XX Series only 20 mm wide
- Extra slim right-angle connector
- Neutrik chuck type strain relief
- 5 selectable cable outlet positions on female & 7 position on male connectors

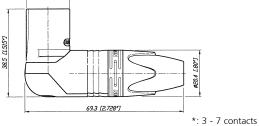


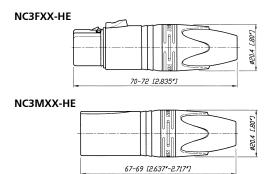
NC3FXX-HE

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











Large cable outlet





Ergonomic latch design

Neutrik hologram

XX Crimp Series



XX-14 Series



NC3FXX-14

NC3MXX-14-B

- Special version of the XX Series XLR cable connector for large diameter cables
- 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

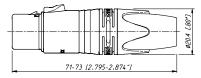


NC3FXX-HA-BAG

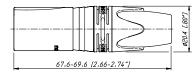
NC3MXX-HA

- 3 pin XX Series with crimp contacts
- Accommodates wire size AWG 24 22 or 0.22 0.34 $\rm mm^2$
- 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
- Ideal solution for field and on-site termination

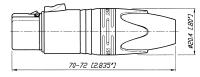
NC3FXX-14



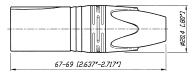
NC3MXX-14



NC3FXX-HA



NC3MXX-HA







Elements

CRYSTALLIZED™ – Swarovski









convertCON position male - female

c r y s t a l C O N



NC3FXX-B-CRYSTAL

NC3MXX-B-CRYSTAL

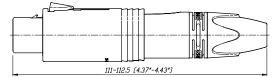
- 3 pole XLR XX-Series embellished with CRYSTALLIZED[™] *Swarovski Elements*
- Exclusively with gold plated contacts, and black chrome housing
- Fancy, noble, valuable, attractive package an eye-catcher
- With all benefits of the XLR XX-Series



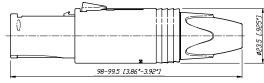
- World's first Unisex XLR cable connector
- 3 pole male and female cable connector in one housing
- Easy selectable gender converted by sliding housing back and forth
- Substitutes adapters, ideal as an emergency kit
- Exclusively with gold plated contacts
- With all benefits of the XLR XX-Series



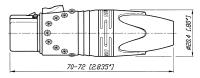
NC3FM-C: Position Female



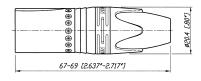
NC3FM-C: Position Male



NC3FXX-B-CRYSTAL



NC3MXX-B-CRYSTAL







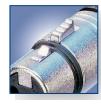
protection



Rubber sealing

Neutrik original design

XX-HD Series





Female locking

Male metal locking window



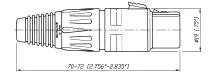


- "Heavy duty" cable connector for outdoor use
- Rubber sealing jacket protects against water ingress and mechanical shock
- Dust and water resistant according to IP 67 in the following combinitions:
 - NC3FXX-HD and NC3MPR-HD
 - NC3FXX-HD and NC3MXX-HD
- Gold contacts
- Chuck type strain relief system for secure clamping of cables
- Rugged zinc diecast shell, longlasting and dependable

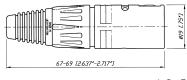


- The XLR connector standard worldwide
- Available in 3 7 pin configurations including 6 pin Switchcraft[®] configuration
- Assembly is quick and easy no screws or special tools required
- Unique Neutrik chuck type internal strain relief
- Female shell features rubber ring for secure mating to male XLR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

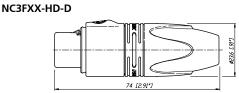
NC*FX



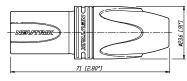
NC*MX



*: 3 - 7 contacts



NC3MXX-HD-D







NC3MX + BSX-5



Rubber sealing

protection



Metal bushing



Coding ring

X-HD Series



NC5FX-HD



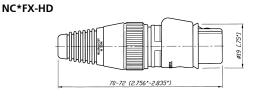
NC4MX-HD

- "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

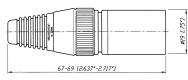


NC3FXCC

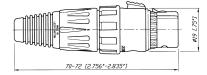
- Coaxial ground spring and hex crimp ferrule at cable entrance allow continuous (360°) ground connection to shell which is essential when transmitting low level audio signals
- Includes Zebra coding ring to indicate digital AES signals
- Ground contact uses 6.5 mm (.255") size "E" hex crimp (IEC 60803).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



NC*MX-HD

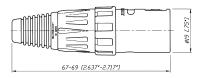


NC3FXCC



NC3MXCC

*: 3 - 5 contacts



XCC Series





Switch activating ring



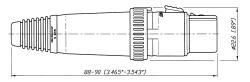
Locking ring

FXS Series



- 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



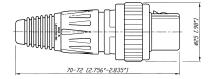
FX-SPEC Series



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



Technical Data

	CRYSTAL	Series	Series	Series	Series	Series	CON Series
	3 - 7 ¹⁾	3	3	3	3 - 7	3	3
	•	٠	٠	•	•	•	•
	•	•	•	•	•	•	٠
	•	•	٠	•	٠	٠	•
	•	•	•	٠	•	•	•
	•	-	٠	•	•	•	•
b	-	capacitive	-	-	-	-	-
1.3 GHz	-	•	-	-	-	-	-
	-	•	-	-	-	-	-
	•	5 A	•	•	•	1 A	•
	•	-	-	-	•	-	-
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	•	•	•	•	•	٠	•
cles	•	•	•	•	•	•	•
	•	•	٠	•	•	•	•
m	• 2)	• 6	5.0 - 8.0 mr	n ●	•	•	٠
WG 14	•	AWG 20	٠	•	•	-	•
WG 16	•	-	-	-	•	-	-
WG 18	•	-	-	-	•	-	-
60352-2)	-	-	-	-	-	•	-
G 24 - 22	-	-	-	-	-	•	-
t (ZnAl4Cu1)	•	•	-	•	•	•	•
eel	-	-	-	-	-	-	-
ack Cr	•	gal Ni	-	velour Cr	•	•	٠
PA 6.6 30% GR	•	•	•	PPS 40% GR	•	•	•
Sn8)	•	•	•	•	•	•	•
n39Pb3)	•	•	٠	•	٠	-	-
،g	•	-	-	-	•	•	-
Au hard alloy over 2 µm N	Ni ●	٠	•	•	٠	-	٠
tch) / Ck 67 (spring)	-	-	-	-	-	-	-
t (ZnAl4Cu1) / CK67 (Spring) •	•	٠	•	٠	٠	•
	•	٠	•	•	•	٠	٠
	٠	•	٠	٠	٠	٠	•
Sn6), Ni plated	-	•	-	-	-	-	-
139Pb3), Ni plated	-	-	-	-	-	-	-
PA 6 15% GR	-	-	-	-	-	-	-
	-	-	٠	-	-	-	-
n39Pb3)	-	-	-	-	-	-	-
-80 °C	•	•	•	•	•	•	•
	•	•	٠	V-0	٠	٠	•
	•	•	IP 67	•	•	•	•
)	•	•	•	•	•	•	•
	•				•	•	•
) -;		• • 2-103	• • • • 2-103 • •	• • • • • • • • • • • • • • • • • • •	• • V-0 • IP 67 • • • • 2-103	 V-0 IP 67 6 7 8 9 9	 V-0 IP 67 6 6 6 6 6 6 7 7 8 9 9



Technical Data

Specification		Х	XCC	X-HD	FXS	FX-SPEC
		Series	Series	Series	Series	Series
Electrical						
		2 7	2	2 5	2	2
Number of contacts Contact resistance	\leq 3 m Ω	3 - 7	3	3 - 5	3	3
	\geq 5 mg \sim > 10 G Ω	•	•	•	•	•
Insulation resistance - initial: - after damp heat test:	> 1 GΩ	•	•	•	•	•
•	1.5 kV dc	•	•	-	•	•
Dielectric strength Cable shield-shell connection	choosable	-	-	•	-	•
Cable shield-shell connection	determined	•	-	•	-	•
Shielding offectiveness	> 55 dB @ 1.3 GHz	-	crimp •	-	-	-
Shielding effectiveness	> 55 UB @ 1.3 GHZ	-	•	-	-	-
Lossy ferrite bead on PIN 1	@ 2F%C	-	-	-	-	-
Rated current per contact	@ 35°C	-				
3 pole:	16 A	•	•	٠	•	•
4 pole:	10 A	•	-	•	-	-
5, 6 pole:	7.5 A	•	-	•	-	-
7 pole:	5 A	٠	-	-	-	-
Capacitance between contacts	4 F					
3 pole:	≤ 4 pF	•	•	•	•	•
4, 5, 6 pole:	≤ 7 pF	•	-	•	-	-
7 pole:	≤ 9 pF	٠	-	-	-	-
Rated Voltage	< 50 V ac	•	•	•	•	•
Mechanical						
Lifetime > 1`000 cycles		٠	•	•	•	•
Insertion / withdrawal force	≤ 20 N		•	•	•	
Cable O.D. range	3.5 – 8.0 mm		5.4 - 6.2 mm	•	3.5 - 7.0 mm	•
Max. wire size 3 pole:	2.5 mm ² / AWG 14	-	J.∓ 0.2 mm	•	•	
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)	-	•	-	-	-
Crimp XX:	0.22 - 0.34 mm ² / AWG 24 - 22	_	-	_	-	-
	0.22 - 0.34 mm 7 Awd 24 - 22	-	-	_	-	-
Material						
Shell	Zinc diecast (ZnAl4Cu1)	•	•	female	•	•
	Stainless steel	-	-	male	-	-
Shell plating	gal Ni or black Cr	-	•	female	•	•
Insert	Polyamide PA 6.6 30% GR	•	•	•	•	•
Contacts - female 3 pole:	Bronze (CuSn8)	•	•	•	•	•
- female 4 – 7 pole & male:	Brass (CuZn39Pb3)	٠	•	٠	-	-
Contact surface Silver	gal 2 µm Ag	•	•	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	٠	•	•	•	•
Bushing	PA / PU	٠	٠	PU	PU	•
Circumferential ground springBronze		-	•	-	-	-
Crimp ferrule	Brass (CuZn39Pb3), Ni plated	-	٠	-	-	-
Coding ring	Polyamide PA 6 15% GR	-	•	-	-	-
Sealing jacket	EPDM	-	-	٠	-	-
Securing ring	Brass (CuZn39Pb3)	-	-	-	-	•
Environmental						
Environmentai						•
	-30 °C to +80 °C	•	•	•	•	•
Operating temperature	-30 °C to +80 °C UL 94 HB	•	•	•	•	•
Operating temperature Flammability	UL 94 HB	•				•
Operating temperature		• • •	•	٠	•	•

Ordering Information for Cable Connectors

Female	Male	Shell Co	ntact - 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	٠	٠	٠	٠	٠
NC*FXX-BAG	NC*MXX-BAG	Black Cr	Silver	•	•	•	•	•
NC3FXX-WT	NC3MXX-WT	White painted	Silver	٠	-	-	-	-
NC3FXX-**-D1	NC3MXX-**-D1	Nickel / Black Cr		•	-	-	-	-
NC6FSXX ²	NC6MSXX ²	Nickel	Silver	-	-	-	٠	-
NC6FSXX-B ²	NC6MSXX-B ²	Black Cr	Gold	-	-	-	•	-
NC6FSXX-BAG ²	NC6MSXX-BAG ²	Black Cr	Silver	-	-	-	•	-
XX-EMC Ser	i e s							
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	٠	٠	٠	٠	•
XX-HE Serie	s							
NC3FXX-HE	NC3MXX-HE	Velour Chromium	Gold	•	-	-	-	-
XX-14 Serie	S							
NC3FXX-14-D	NC3MXX-14-D	Nickel	Silver	•	-	-	-	
NC3FXX-14-D	NC3MXX-14-D	Black Cr	Gold	•	-	_	-	_
NC3FXX-14-BAG-D	NC3MXX-14-BAG-D		Silver	•	-	-	-	-
XX Crimp Se	eries							
-		NP 1 1	c'l					_
NC3FXX-HA	NC3MXX-HA	Nickel Black Cr	Silver	•	-	-	-	-
NC3FXX-HA-BAG	NC3MXX-HA-BAG	Black Cr	Silver	•	-	-	-	-
c o n v e r t C O N	Series							
NC3FN	Л-С	Nickel	Gold	٠	-	-	-	-
NC3FN	1-С-В	Black Cr	Gold	•	-	-	-	-
Crystal XLR								
NC3FXX-B-CRYSTAL	NC3MXX-B-CRYSTAL	Black Cr	Gold	•	-	-	-	-
XX-HD Serie	c							
NC3FXX-HD-D	NC3MXX-HD-D	Nickel	Gold	•	-	-	-	-
NC3FXX-HD-B-D	NC3MXX-HD-B-D	Metal Black	Gold	•	-	-	-	-
Accessories	and Assemb	ly Tools						
Detailed information	on page 37 and 42.							
* : Number of Contacts								

* : Number of Contacts ** : Nickel or Black

···· . NICKEI OF BIACK

 $-D^1$: Bulk packed, to be ordered in multiples of 100 pcs.

² : Switchcraft equivalent



Ordering Information for Cable Connectors

FemaleMaleShellContact - plating3 pole4 pole5 pole6 poleX SeriesNC*FXNC*MXNickelSilver••••NC*FX-BNC*MX-BBlack CrGold••••NC*FX-BAGNC*MX-BAGBlack CrSilver••••NC3FX-**-D1NC3MX-**-D1Nickel / Black CrSilver••••NC6FSX2NC6MSX2Nickel / Black CrGold•••••NC6FSX-BAG2NC6MSX-B2Black CrGold••••NC6FSX-BAG2NC6MSX-BAG2Black CrSilver••••NC4FSX-BAG2NC6MSX-BAG2Black CrSilver•••<	
NC*FXNC*MXNickelSilver••<	e 7 pole
NC*FX-B NC*MX-B Black Cr Gold • • • • • • • • • • • • • • • • • • •	
NC*FX-BAGNC*MX-BAGBlack CrSilver•••••NC3FX-**-D1NC3MX-**-D1Nickel / Black CrSilver / Gold•NC6FSX2NC6MSX2NickelSilver•••••NC6FSX-B2NC6MSX-B2Black CrGold••• <td< td=""><td>•</td></td<>	•
NC3FX-**-D1Nickel / Black CrSilver / GoldNC6FSX2NC6MSX2NickelSilver••	•
NC6FSX2NC6MSX2NickelSilver•NC6FSX-B2NC6MSX-B2Black CrGold••NC6FSX-BAG2NC6MSX-BAG2Black CrSilver••• X - H D Series NC*MX-HDNickelGold•••NC*FX-HDNC3MX-HD-BMetal BlackGold•••	٠
NC6FSX-B2 NC6MSX-BAG2NC6MSX-B2 NC6MSX-BAG2Black CrGold•NC6FSX-BAG2NC6MSX-BAG2Black CrSilver•X - H D SeriesSeriesSilverNC*FX-HD NC3FX-HD-BNC*MX-HD NC3MX-HD-BNickelGold•••SilverSilverSilverSilverNC*FX-HD NC3FX-HD-BNickelGold•••	-
NC6FSX-BAG2NC6MSX-BAG2Black CrSilver•X - H D SeriesNC*FX-HDNC*MX-HDNickelGold•••NC3FX-HD-BNC3MX-HD-BMetal BlackGold••	-
X - H D SeriesNC*FX-HDNC*MX-HDNickelGold••-NC3FX-HD-BNC3MX-HD-BMetal BlackGold•	-
NC*FX-HD NC*MX-HD Nickel Gold • • NC3FX-HD-B NC3MX-HD-B Metal Black Gold •	-
NC3FX-HD-B NC3MX-HD-B Metal Black 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 37 and 42.	
* : Number of Contacts	
**: Nickel or Black	

-D¹: Bulk packed, to be ordered in multiples of 100 pcs.

²: Switchcraft Equivalent





Smallest receptacle



A Series

Lateral right PCB mount





Locking release tab

Ground contact



AA Series

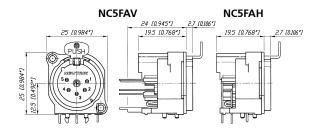


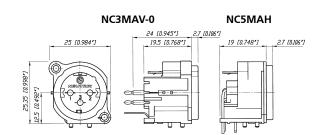


NC3FAH

NC 3MAV

- Smallest XLR receptacles, highest packing density
- Plastic housing, steel retention lug
- 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





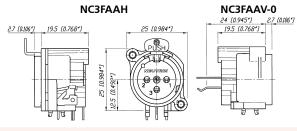




NC3FAAV2

NC3MAAH-1

- Front panel cutout and PCB layout 100% compatible to the A Series
- Most cost-effective series
- "Tulip" type female contact design with high contact pressure
- Selective gold plated contact and PCB termination area for best conductivity and solderability
- Plastic housing flammability UL 94 HB



Grounding Options (A / AA / B 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:

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







XLR Chassis Connectors





Circumferential metal ring

Front panel grounding



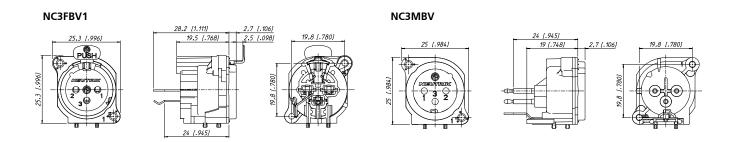
Tear drop contact design



B Series



- 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







Incorporated switch





Insert removable

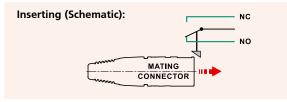
A/B Series - Switch



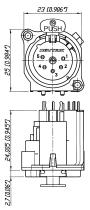


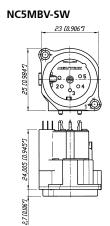
NC3FBV-SW

- NC3MBV-SW
- A and B Series connector with additional switch
- Normally open, normally closed (NO NC) contact
- Switch activated by mating XLR cable connector











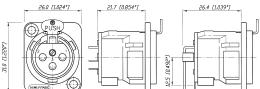


NC3FDM3-H-B

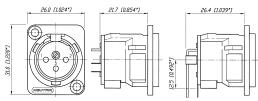
NC3MD-V

- "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
- Special version with screw termination

NC3FD-V / NC3FD-H



NC3MD-V / NC3MD-H







XLR Chassis Connectors



Locking release tab



Horizontal PCB mount







Ground shielding White painted housing

DLX Series

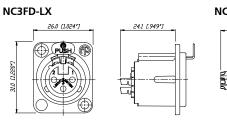


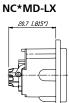


NC3FD-LX-HE

NC5MD-LX

- Next generation of the popular DL Series with greater functionality
- All metal housing works in combination with a new duplex ground contact yielding the best RF protection and ground conductivity in a chassis mount XLR
- Male connector's retention bar replaces plastic design with all metal version
- Unique cage type female contacts on 3 pole version for increased conductivity
- Machined male and female contacts on 4 7 pole versions
- D-style housing provides installation compatibility with industry standard D mounting dimensions





*: 3 - 7 contacts

DL Series

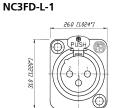




NC7MD-L-B-1

NC3FD-L-1

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



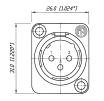


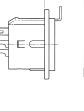
21.7 [0.854*]

0

Ð -E-C

NC3MD-L-1

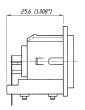




NC*MDM3-H

NC*FDM3-H

25.6 [1.008*]



*: 3 - 5 contacts





Crimp type contact



Circumferential ground spring

DLX Crimp Series





NC3FD-LX-HA

NC3MD-LX-BAG-HA

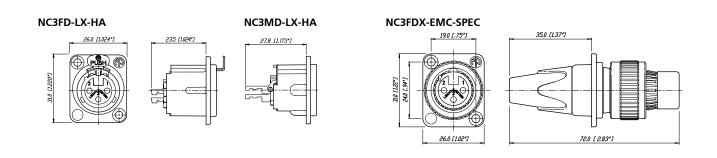
- 3 pole DLX Series with crimp contacts
- Accommodates wire size AWG 24 22 or 0.22 0.34 \mbox{mm}^2
- Utilizes standard B-type crimp tool (acc. IEC 60352-2)
- Absolute leadfree and solderless connection:
 - RoHs compliance
 - Health and eco-friendly
- Fast and easy assembly
- Gas-tight connection offers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



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 18 – EMC cable connector.





EMC Series



Sealing Gasket





P Series

Through hole fastening

MPR-HD Series





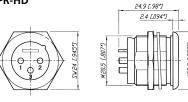
NC3MPR-HD

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



NC3MPR-HD



*: 3 - 5 contacts





NC3FP-1

NC6MP-B

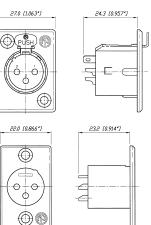
- Male and female available in 3 6 pin configurations; 7 pin version available in female only
- Smallest available hard wiring receptacles with large solder cups
- Male and female use different mounting hole dimensions and do not fit in same mounting hole
- Front mountable only
- One piece version insert 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



36.7 [1.445']







Front end design

Solder termination

Combo Series



NCJ9FI-V

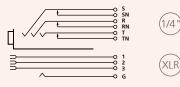
- Combined XLR receptacle and 1/4" phone jack
- Attractive "front end" design
- Saves rack space by combining 2 connectors in one housing
- Horizontal or vertical PCB mount or hard wire soldering
- Fully normalled
- Stereo or mono version



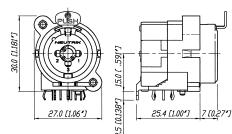
NCJ10FI-S

- 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)





NCJ10FI-H







Hologram



Horizontal PCB mount



Vertical PCB mount

Combo A Series



NCJ6FA-V-0



NCJ6FA-H

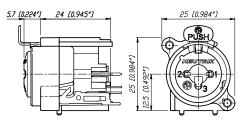


NCJ6FA-V-0

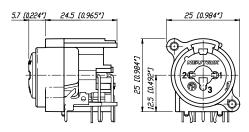
- Combined 3 pole XLR receptacle and 1/4" phone jack for balanced mic and line or instrument inputs in one XLR housing
- Dramatic space saving 15 % over the predecessor Combo
- Two connectors in one housing substantial cost, material and labour saving
- Horizontal and vertical PCB mount available

- 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
- Branded with unique hologram guarantees genuine and authentic Neutrik product

NCJ6FA-V



NCJ6FA-H







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
XLR Ca	ble Connectors										
BSX-*	Colored bushing for X Series										
BXX-*	Colored bushing for XX Series		6		S	6	P	9	6	6	6
XCR-*	Colored coding ring for X Series	0	0	0	0	0	0	0	0	0	
XXR-*	Colored coding ring for XX Series	0	0	0	0	0	0	0	0	0	0
XLR Ch	assis Connectors										
ACRF-*	Colored ring for female 4 pole A Series and 4 + 5 pole B Series.	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
ACRM-*	Colored ring for male 4 pole A Series and 4 + 5 pole B Series	Ø	Ø	Ö	Ò	Ò	Ø	ð	Ò	ð	Ò
DSS-*	Lettering plate for D Series										
Acces	sories			-					-		
XLR Ca	ble Connectors										
BXX-CR BXX-14 XXCR	Bushing with translucent coding ring Large bushing set (cable O.D. 8.5 mm) Translucent coding ring for XX Series Label Dimensions: 57.9 mm x 6.35 mm – 2.25" W x 0.25" H)		BXX-CR			O XXCF		Exam	ple		
XLR Ch	assis Connectors										
	Plastite [®] screw 2.9 x 8 TAPTITE [®] screw 2.5 x 8 Dummy-plate for D Series panel cut outs		ہ ا		,	0	Ċ	2:	Q	\circ	0
FDR1	Round panel mounting flange for NC3FDX-EMC-SPEC	A So	rew	B Screw	1	DBA	FD	DR1	MF	Ð	Example
HA-3FXX HA-3MXX MFD ND*	Set of 50 female spare contacts for crimp XLR Set of 50 male spare contacts for crimp XLR M3 mounting frame for D-size chassis dummyPLUG for female / male XLR chassis		•	4)	٢					
NZP1RU-8	connector Panel 1RU with 8 D-shape housing cutouts	Ν	DF	NDM	I	SCF	S	ΞM			
NZP1RU-12 SC*	Panel 1RU with 12 D-shape housing cutouts Rubber sealing cap for female and male XLR receptacles									2)(P)	
SCDP-*	D Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)		00000				0		-		PY
SCDR	Rear end protection cover for D size chassis connectors			P1RU-12		SCDF	R Exan	nple	SCDX	E:	xample
SCDX	Hinged cover seals D-size chassis connectors, IP42 rated	N	ew M		T	7	17				
SCCD-W SFAV	Spring-loaded cover to seals D size chassis connectors, IP65 rated Rubber frame for A / B Series to mount between		SCCD-V	۸/		SCDP-	*		SFAV	г.	
	front plate and rear vertical print		3000-1	* *		SCUP	- 1		SFAV	E)	kample

SFAV Rubber frame for A / B Series to mount between front plate and rear vertical print



Technical Data

Specification		A Series	AA Series	B Series	D Series	DL / DLX Series	DLX Crimp	DLX-HE Series
Electrical								
Number of contacts		3 - 5	3	3 - 5	3	3-7	3	3
Contact resistance	≤ 6 mΩ	•	•	•	•	•	•	•
Insulation resistance - initial:		•	•	•	•	•	•	•
- after damp heat test:		•	•	•	•	•	•	•
Dielectric strength	1.5 kV dc	•	•	•	•	•	•	•
Rated voltage	< 50 V ac	•	•	•	•	•	•	•
Rated current per contact	50140							
3 pole:	6 A	•	٠	•	•	16 A	1 A	16 A
4 pole:		•	-	-	-	10 A	-	-
5, 6 pole:		•	-	-	-	7.5 A	-	-
7 pole:		-	_	-	-	•	-	-
Combo XLR + Jack contact	7.5 A	-	-	_	-	-	-	-
Capacitance between contact						-		
3 pole:		•	•	•	-	_ ≤ 4 pF	≤4 pF	≤4 pF
4, 5, 6 pole:		•	-	•	-	_ 4 pi	_≤ 4 pi -	- 24 pi
4, 5, 6 pole. 7 pole:		•	-	•		•	_	-
7 pole.	≥ a bi	-	-	-	-	•	-	-
Mechanical								
Lifetime	> 1`000 mating cycles	•	•	•	•	٠	•	٠
Insertion / withdrawal force	$\leq 20 \text{ N}$	•	•	•	•	•	•	•
Retention method	3 20 N	•	•	•	•	•	•	•
- standard:	latch lock	•	•	•	•	•	•	•
	≥ 20 N separating force	•	•	•	•	•	-	-
	mm^2 / AWG 24 - 22	-	-	-	-	-	٠	-
Material								
								DCC 4004 CD
	PA 6.6 30% GR	•	•	•	•	•	•	PSS 40% GR
Shell Zinc diecast		-	-	-	•	•	•	•
Shell plating	gal Ni or black Cr	-	-	•	•	٠	•	velour Cr
Ring Zinc diecast		-	-	•	-	-	-	
Contacts - female 3 pole:		•	•	•	•	•	•	•
	Bronze CuSn6	•	-	-	-	-	-	-
	Brass CuZn39Pb3	-	-	-	-	•	-	-
	Brass CuZn35Pb2	•	•	•	•	•	•	•
	uCo over 2 µm NiP15 (Tribor®)	•	•	•	-	-	-	٠
	m Au hard alloy over 2 µm Ni	-	-	-	•	٠	•	-
Latch lock & spring	Ck 67 steel, treated	٠	•	•	•	•	•	•
Environmental								
Operating temperature	-30 °C to +80 °C	•	•	•	•	•	•	•
Protection class	-50 C 10 +80 C	•	•	•	•	-	•	-
Flammability	UL 94 HB	•	•	-	•	•	•	-
nannnability	UL 94 V-0		-	-	-	•	-	-
Coldorability compliant with		3 pole		-		-		•
Solderability complies with	IEC 68-2-20	•	•	•	•	٠	•	•
Mounting screw			A	1)	-	-	-	-
Color coding		ACR* 2)	-	ACR* 2)	DSS	DSS	DSS	DSS

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

Technical Data

Series Series Series Combo Electrical 3-5 3-7(8) 5-10 3/3 Contact resistance 6 mQ 40mQ 410mQ mailation resistance 16 GQ after damp heat test: >1 GQ Stated voltage 50 V ac Stated voltage 50 A 7.5 A Combo XLR + Jack contact 7.5 A Gapacitance between contacts	Specification		MPR-HD	Р	Combo	А		
Number of contacts 3 -5 3 -7(6°) 5 -10 3/3 Contact resistance is 6 mΩ $3 - 3$ $3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 $	Specification							
Number of contacts $3 - 5 - 3 - 7(e^{\circ})$ 5 - 10 $3/3$ Contact resistance $-\sin(ii) \ge 10$ GQ \bullet \bullet $\sin(2\pi)$ $\sin(2\pi)$ $-\operatorname{after}(damp heat test: > 1 - GQ \bullet \bullet \bullet \bullet \circ-\operatorname{after}(damp heat test: > 1 - GQ \bullet \bullet \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - GQ \bullet \bullet \bullet \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - GQ \bullet \bullet \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - GQ \bullet \bullet \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - GQ \bullet \bullet \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - \circ \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - \circ \circ \bullet \bullet \bullet \bullet\operatorname{afted}(\operatorname{vorten}) test: > 1 - \circ \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$								
Contact resistance $ e e m2$ $ e m2$ $ e m2$ $ e m2$ $ e m2$ - after damp heat test: > 1 GQ $ e e e e e e e e e e e e e $	Electrical							
nsultion resistance - initial: > 10 GQ +	Number of contacts		3-5	3 - 7 (6*)	5 - 10	3/3		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Contact resistance	≤6 mΩ	•		≤10 mΩ	≤10 mΩ		
Dielectric strength 1.5 kV dc \cdot \cdot \cdot \cdot \cdot \cdot Rated voltage 50 V ac \cdot \cdot \cdot \cdot \cdot \cdot Rated voltage 50 V ac \cdot \cdot \cdot \cdot \cdot \cdot Rated current per contact $3 \text{ pole:} 6 \text{ A}$ 16 A 16 A $ 3 \text{ A}$ $4 \text{ pole:} 6 \text{ A}$ 10 A 10 A $ \cdot$ \cdot $7 \text{ pole:} 5 \text{ A}$ $ \cdot$ \cdot $ \cdot$ \cdot $7 \text{ pole:} 5 \text{ A}$ $ \cdot$ \cdot $ \cdot$ \cdot Combo XLR + Jack contact 7.5 A 7.5 A $ \cdot$ \cdot \cdot $7 \text{ pole:} 5 \text{ A}$ $ \cdot$ \cdot \cdot \cdot \cdot \cdot $7 \text{ pole:} 5 \text{ A}$ $ \cdot$ \cdot \cdot \cdot \cdot \cdot \cdot $7 \text{ pole:} 57 \text{ pF}$ \leq 4 pf \leq 4 pf \leq 2 pf \leq 2 pf $4.5, 6 \text{ pole:} 57 \text{ pF}$ \cdot \cdot \cdot \cdot \cdot \cdot \cdot $7 \text{ pole:} \leq 9 \text{ pF} \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdotRetention / withdrawal force 20 \text{ N} \circ 20 \text{ N} \circ 25 \text{ N} \cdotRetention method\cdot standard: Iatch lock \cdot \cdot 0 \text{ OUR} \cdot 0 \text{ OUR}\cdot \cdot 0^{\circ} Version: > 20 \text{ N} separating force \cdot \cdot 25 \text{ N} 25 \text{ N}Materialmsert Polyamide PA.6 6 30% GR \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot$	Insulation resistance - initial:	>10 GΩ	٠	٠	•	٠		
aladed voltage50 V ac••••Bated current per contact3 pole:6 A16 A16 A-3 A 4 pole:6 A10 A10 A 5 , 6 pole:3 A2.5 A7.5 A 7 pole:5 A-•••• 2 pole:5 A-•••• 2 pole:5 / pf 4 pf ≤ 2 pf ≤ 2 pf ≤ 2 pf 4 5, 6 pole: ≤ 7 pf•••• 7 pole: ≤ 9 pF•••• 7 pole: ≤ 2 N•••• 2 S n*•••• \sim 7 pole: ≤ 2 N•••• \sim 7 pole: ~ 1000 mating cycles•••• \sim 1000 mating cycles••••• \sim 1000 mating cycles••••• \sim 1	- after damp heat test:	>1 GΩ	•	٠	>500 mΩ	•		
Rated current per contactBated current per contact3 pole:6 A16 A16 A3 A4 pole:5 A10 A10 A-5, 6 pole:3 A7,5 ACombo XLR + Jack contact7,5 A3 pole:5 P4,5,6 pole:5 PF \leq 4 pF \leq 4 pF \leq 2 pF \leq 2 pF4,5,6 pole:5 PF7 pole: \leq 9 pFMechanicalMechanical000 mating cycles•••MechanicalMaterialMaterial <td>Dielectric strength</td> <td>1.5 kV dc</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td></td>	Dielectric strength	1.5 kV dc	•	•	•	•		
3 pole:6 A16 A16 A3 A4 pole:6 A10 A10 A5, 6 pole:3 A75 A75 ACombo XLR + Jack contact7.5 ACapacitance between contacts3 pole:5 7 pf<4 pf	Rated voltage	50 V ac	٠	٠	•	•		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Rated current per contact							
5, 6 pole: 3 A 7 pole: 5 A 7 pole: 5 A 3 pole: 5 7 pF 4, 5, 6 pole: 5 7 pF 4, 5, 6 pole: 5 7 pF 4, 5, 6 pole: 5 7 pF 5 pole: 5 9 pF 7 pole: 5 9 pF 6 pole: 5 7 pF 6 pole: 5 7 pF 7 pole: 5 9 pF 7	•				-	3 A		
7 pole:5 ACapacitance between contacts3 pole:< 7 pF					-	-		
Combo XLR + Jack contact 7.5 A					-	-		
Capacitance between contacts 3 pole: $\leq 7 \text{ pF}$ 4, 5, 6 pole: $\leq 7 \text{ pF}$ 7 pole: $\leq 9 \text{ pF}$ 4 4 Contact sufface Section 1 with drawal force - 3tandard: - standard: - stan			-	•	-	-		
3 pole:57 pF $\leq 4 pF$ $\leq 2 pF$ $\leq 2 pF$ $\leq 2 pF$ 4, 5, 6 pole: $\leq 7 pF$ •••7 pole: $\leq 9 pF$ •••MechanicalLifetime> 1'000 mating cycles•••eternion method- standard:latch lock••••••••Nater ialMater ialmetric force•• <td colspan<="" td=""><td></td><td>7.5 A</td><td>-</td><td>-</td><td>•</td><td>•</td><td></td></td>	<td></td> <td>7.5 A</td> <td>-</td> <td>-</td> <td>•</td> <td>•</td> <td></td>		7.5 A	-	-	•	•	
4, 5, 6 pole: ≤ 7 pF 7 pole: ≤ 9 pF Mechanical Lifetime > 1'000 mating cycles msertion / withdrawal force ≤ 20 N - 25 N - 25 N - 25 N Retention method - standard: latch lock 0	•							
7 pole: ≤ 9 pF - • - Mechanical Lifetime > 1'000 mating cycles • • • sertion / withdrawal force ≤ 20 N • 25 N • Retention method - standard: latch lock • • • • - *0° Version: ≥ 20 N separating force • 25 N 25 N • Material - - - - - - Material Zinc diccast ZnAl4Cu1 • • - - Shell Zinc diccast ZnAl4Cu1 • • - - Contacts - female 3 pole: Bronze Cu5n6 • • • - Contact surface gol 0.2 µm Au bard aloy over 2 µm NP15 (Tribor*) • • • • Contact surface gol 0.2 µm Au bard aloy over 2 µm N Au • • • Catch lock & spring C to +80 °C • • • • • Contact surface gol 0.2 µm Au bard aloy over 2 µm N Au								
Mechanical Lifetime > 1'000 mating cycles • • • • Insertion Mithdrawal force ≤ 20 N • 25 N • Retention method - standard: latch lock • • (XLR) • (XLR) - "0 * Version: ≥ 20 N separating force • 25 N 25 N Material Mat			•	•				
Lifetime > 1000 mating cycles 20 N Retention method - standard: latch lock 20 N 25 N - "0" Version: $\geq 20 \text{ N}$ separating force 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N 25 N Material nsert Polyamide PA 6.6 30% GR 25 N Shell Zinc diecast ZnAl4Cu1 25 N Shell Zinc diecast ZnAl4Cu1 25 N Contacts $-$ female 3 pole: Bronze Cu5n6 $ 25 \text{ N}$ 4 - 5 pole: Bronze Cu5n6 $ 25 N4 - 5 pole: Bronze Cu5n6 25 N- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 -- male: Brass Cu2n35Pb2 - - $	/ pole:	≤ 9 p⊦	-	٠	-	-		
Lifetime > 1'000 mating cycles 20 N 25 N Retention method - standard: latch lock 20 N 25 N - "0" Version: ≥ 20 N separating force 25 N Material nsert Polyamide PA 6.6 30% GR 25 C 0 C(R) - "0" Version: ≥ 20 N separating force 25 N Material nsert Polyamide PA 6.6 30% GR 25 C 0 C 0 C(R) Shell Zinc diecast ZnAl4Cu1 25 C 0 C Shell Zinc diecast ZnAl4Cu1 25 C 0 C Shell Zinc diecast ZnAl4Cu1 25 C 0 C Shell Zinc diecast ZnAl4Cu1 $ -$ Shell Zinc diecast ZnAl4Cu1 $ -$ Contacts $-$ female 3 pole: Bronze Cu5n6 $ -$ Contact $-$ female 3 pole: Bronze Cu5n6 $ -$ Contact surface gal0.2 µm AuCo over 2 µm Ni Au $ -$ Latch lock & spring C k 67 steel, treated $ 0$ 0 Environmental Doperating temperature -30 °C to $+80$ °C $ -$ Solderability complies with IEC 68-2-20 $ -$ Contact surface $ -$ Contact surface $ -$ Environmental Doperating temperature -30 °C to $+80$ °C $ -$ Contact surface $ -$	Mechanical							
Insertion / withdrawal force ≤ 20 N \circ 25 N \circ Retention method \circ standard: latch lock \circ (XLR) $\circ(XLR)$ \circ "0" Version: ≥ 20 N separating force \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 25 N 25 N Material Insert Polyamide PA 6.6 30% GR \circ \circ 0 Shell Zinc diecast ZnAl4Cu1 \circ $ -$ Shell plating gal Ni or black Cr Ni \circ $ -$ Contacts \circ female 3 pole: Bronze Cu5n6 $ -$ 4 - 5 pole: Bronze Cu5n6 $ -4 - 5$ pole: Bronze Cu5n6 $ - -Contact surface gal 0.2 µm AuCo over 2 µm NP15 (Tribor*) -Contact surface gal 0.2 µm AuCo over 2 µm NP15 (Tribor*) -EnvironmentalDoperating temperature -30 °C to +80 °C \circ 0 0EnvironmentalDoperating temperature -30 °C to +80 °C \circ 0 - -Sidderability UL 94 HB 0 0 P 65 0 0 -Sidderability complies with IEC 68-2-20 0 0 0 0Color coding - - - - - - - - - - - - - - - - - - - - - - - - - - - -- -- - -- -- -- --- --------$. 1.000						
Retention method - standard: latch lock • • • OKLR) • (KLR) - "0" Version: ≥ 20 N separating force • • • OKLR) • (KLR) - "0" Version: ≥ 20 N separating force • • • • • • • • • • • • • • • • • • •								
- standard: latch lock - "0" Version: ≥ 20 N separating force • • (XLR) • (XLR) 25 N Material Nert Polyamide PA 6.6 30% GR Shell Zinc diecast ZnAl4Cu1 • • • • Shell Jating galNi or black Cr Ni • • • • Shell Zinc diecast ZnAl4Cu1 • • • • Shell Zinc diecast ZnAl4Cu1 • • • • Contacts - female 3 pole: Bronze CuSn6 • • • • • 4 - 5 pole: Bronze CuSn6 • • • • • • ale: Brass CuZn39Pb3 • · male: Brass CuZn39Pb3 • · male: Brass CuZn39Pb3 • · male: Brass CuZn39Pb2 • • • • Contact surface gal 0.2 µm AuCo over 2 µm NP15 (Tribor*) • ale: Ar start and Co over 2 µm NP15 (Tribor*) • ale: Ch 7 steel, treated • • • • Environmental Doperating temperature · 30 °C to +80 °C • • • • Environmental Doperating temperature · 30 °C to +80 °C • • • • Start Ale Color coding · · · · · · Solderability complies with IEC 68-2-20 • · · · · · Color coding · · · · · · · ·		≤ 20 N	•	•	25 N	•		
- "0" Version: ≥20 N separating force • 25 N 25 N Material Ma			-		- ()(D)	- ()(D)		
Material Insert Polyamide PA 6.6 30% GR Insert Polyamide PA 6.6 30% GR Insert Polyamide PA 6.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6								
Insert Polyamide PA 6.6 30% GR • • • • • • • • • • • • • • • • • •	- U Version.	≥ 20 N separating force	•	•	25 N	25 N		
Insert Polyamide PA 6.6 30% GR Shell Zinc diecast ZnAl4Cu1 • • • - • Shell plating gal Ni or black Cr Ni • - • Ring Zinc diecast ZnAl4Cu1 - • - • Contacts - female 3 pole: Bronze CuSn6 - • • • 4 - 5 pole: Bronze CuSn6 - • • • 4 - 7 pole: Brass CuZn39Pb3 - • - • - male: Brass CuZn39Pb3 - • • • Contact surface gal 0.2 µm AuCo over 2 µm NIP15 (Tibor*) - • • gal 2 µm Ag or gal 0.2 µm Au hard alloy over 2 µm Ni Au 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 Doperating temperature -30 °C to +80 °C • • • Flammability UL 94 HB • • Flammability UL 94 HB • Flammability UL 94 V-0 - • Solderability complies with IEC 68-2-20 • • Mounting screw - A A Color coding - • - A A								
Insert Polyamide PA 6.6 30% GR Shell Zinc diecast ZnAl4Cu1 Shell plating gal Ni or black Cr Ni Al - 5 pole: Bronze Cu5n6 Al - 5 pole: Bronze Cu5n6 Al - 7 pole: Brass CuZn39Pb3 - - male: Brass CuZn39Pb3 - - male: Brass CuZn35Pb2 - Contact surface gal 0.2 µm AuCo over 2 µm NiP15 (Tibor*) - gal 2 µm Ag or gal 0.2 µm Au hard alloy over 2 µm Ni Au Contact surface spring C k 67 steel, treated - Environmental Doperating temperature Flammability UL 94 HB UL 94 V-0 - Solderability complies with IE C 68-2-20 - Contact surface - - - - - - - - - - - - -	Material							
Shell Zinc diecast ZnAl4Cu1 • • Shell plating gal Ni or black 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 Had alloy over 2 µm Ni Au • - Latch lock & spring Ck 67 steel, treated - • • • En v i r o n m e n t a l Deparating temperature -30 °C to +80 °C • • • Flammability UL 94 HB • • Flammability UL 94 HB • • Solderability complies with IEC 68-2-20 • • • Solderability complies with IEC 68-2-20 • • A A Color coding A A								
Shell plating gal Ni or black Cr Ni Ring Zinc diecast ZnAl4Cu1 Contacts - female 3 pole: Bronze CuSn6 4 - 5 pole: Bronze CuSn6 - male: Brass CuZn39Pb3 - male: Brass CuZn39Pb3 - male: Brass CuZn39Pb3 Contact surface gal 0.2 µm AuCo over 2 µm NiP15 (Tribor®) • gal 2 µm Ag or gal 0.2 µm Au hard alky over 2 µm Ni Au • Latch lock & spring Ck 67 steel, treated - • • • • En v i r o n m e n t a l Doperating temperature -30 °C to +80 °C • • • • Flammability UL 94 HB • • • Flammability UL 94 HB • • • Solderability complies with IEC 68-2-20 • • A A Color coding A A	Insert Polyamide	PA 6.6 30% GR	•	•	•	•		
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 AuCo over 2 µm NiP15 (Tribor*) • • • Latch lock & spring Ck 67 steel, treated - • • • • En v i r o n m ental Doperating temperature -30 °C to +80 °C • • • • • Protection class IP 40 IP 65 • • Flammability UL 94 HB • • • Solderability complies with IEC 68-2-20 • • • A A Color coding A A	Shell Zinc diecast	ZnAI4Cu1	٠	•	-	-		
Contacts - female 3 pole: Bronze CuSn6	Shell plating		Ni	•	-	-		
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 AuCo over 2 µm NiP15 (Tribor®) - - • • gal 2 µm Ag or gal 0.2 µm Au hard alloy over 2 µm Ni Au • - - gal 2 µm Ag or gal 0.2 µm Au hard alloy over 2 µm Ni Au • - - Latch lock & spring Ck 67 steel, treated - • • • En vir on mental - - • • • Operating temperature -30 °C to +80 °C • • • • Protection class IP 40 IP 65 • • • • Flammability UL 94 HB • • • • • Solderability complies with IEC 68-2-20 • • • • • Color coding - - -	5		-	-	-	-		
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 - • • • En vir on mental - • • • • Operating temperature -30 °C to +80 °C • • • • Protection class IP 40 IP 65 • • • Flammability UL 94 HB • • • • Solderability complies with IEC 68-2-20 • • • Kounting screw - - - - - Color coding - - - - -					•	-		
- 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 Deperating 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			-	-	-	-		
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 • • • • A A Color coding A A			•	•	-	-		
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	÷ .		-	-	•	•		
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 - - - - Color coding - - - -				•	-	-		
Operating temperature-30 °C to +80 °C••Protection classIP 40IP 65••FlammabilityUL 94 HB•••UL 94 V-0Solderability complies withIEC 68-2-20•••Mounting screwAAColor coding	Latch lock & spring	Ck 67 steel, treated	-	•	•	•		
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	Environmental							
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	Operating temperature	-30 °C to +80 °C	•	•	•	•		
Flammability UL 94 HB • • • • • UL 94 V-0 Solderability complies with IEC 68-2-20 • • • • Mounting screw - A A Color coding A -	Protection class				•			
UL 94 V-0Solderability complies withIEC 68-2-20•••Mounting screwAAColor coding	Flammability				•			
Solderability complies with IEC 68-2-20 - - A A Mounting screw - - A A Color coding - - - - -	,			-	-			
Mounting screw A A Color coding	Solderability complies with			•	•	•		
Color coding	Mounting screw			-	-			
			-	-				
* · P Series male 3 - 6 note								
* · P Sories male 3 - 6 note								
	* · P Sories male 2 - 6 pole							

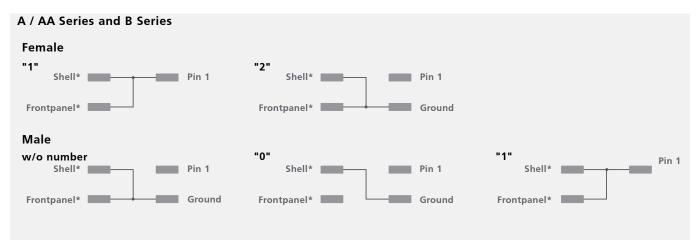
* : P Series male 3 – 6 pole



Ordering Information for Receptacles

Female	Male	Shell	Contact	3 pole	4 pole	5 pole	Female	Male	Shell	Contact	3 pole
A Series							AA Seri	e s			
NC*FAH-D		Black Pla	stic Gold	-	• 1)	• 1)	NC3FAAH	NC3MAAH	Black Plastic	Gold	•
	NC*MAH	Black Pla	stic Gold	•	٠	٠	NC3FAAH-0		Black Plastic	Gold	•
NC*FAH-0		Black Pla	stic Gold	٠	• 1)	• 1)	NC3FAAH1	NC3MAAH-1	Black Plastic	Gold	•
	NC3MAH-0	Black Pla	stic Gold	٠	-	-	NC3FAAH1-0		Black Plastic	Gold	٠
NC3FAHL-0		Black Pla	stic Gold	•	-	-		NC3MAAH-0	Black Plastic	Gold	•
NC3FAHR-0		Black Pla	stic Gold	٠	-	-	NC3FAAH2		Black Plastic	Gold	٠
NC3FAH1-D		Black Pla	stic Gold	•	-	-	NC3AAH2-0		Black Plastic	Gold	•
NC3FAH1-0		Black Pla	stic Gold	٠	-	-	NC3FAAV	NC3MAAV	Black Plastic	Gold	٠
NC3FAHL1-D		Black Pla	stic Gold	•	-	-	NC3FAAV-0		Black Plastic	Gold	•
	NC3MAHL	Black Pla	stic Gold	٠	-	-	NC3FAAV1	NC3MAAV-1	Black Plastic	Gold	•
NC3FAHL1-0		Black Pla	stic Gold	•	-	-	NC3FAAV1-0		Black Plastic	Gold	•
NC3FAHR1-D		Black Pla	stic Gold	٠	-	-		NC3MAAV-0	Black Plastic	Gold	٠
	NC3MAHR	Black Pla	stic Gold	•	-	-	NC3FAAV2		Black Plastic	Gold	•
NC3FAHR1-0		Black Pla	stic Gold	٠	-	-	NC3FAAV2-0		Black Plastic	Gold	٠
NC3FAH2-D		Black Pla	stic Gold	•	-	-					
NC3FAH2-0		Black Pla	stic Gold	•	-	-					
NC3FAHR2-D		Black Pla	stic Gold	•	-	-					
NC3FAHR2-0		Black Pla	stic Gold	•	-	-					
NC*FAV-D		Black Pla	stic Gold	-	• 1)	• 1)	A Series – D ve	rsion come with	disassembled P	ush latch, versi	on with
	NC*MAV	Black Pla	stic Gold	•	٠	•	assembled latch	n omit -D.			
NC*FAV-0		Black Pla	stic Gold	•	• 1)	• 1)					
	NC3MAV-0	Black Pla	stic Gold	•	-	-	AA Series come	es with Push Late	h assembled.		
NC3FAV1-D		Black Pla	stic Gold	•	-	-					
NC3FAV1-0		Black Pla	stic Gold	•	-	-	A / AA Series re	ear mount only,	all PCB mount e	except Y version	n = IDC
NC3FAV2-D		Black Pla	stic Gold	•	-	-					
NC3FAV2-0		Black Pla	stic Gold	•	-	-	¹⁾ : Grounding C	ption "2"			
NC5FAV-SW-D	NC5MAV-SW	Black Pla	stic Gold	-	-	•	0: Retention Sp	oring			

Grounding Options



Shell* : Contact to shell of mating connector

Frontpanel* : Connection to frontpanel by fastening screw



Ordering Information for Receptacles

NC*MBH-B Metal Gold • NC3MBV-B Black Metal Gold - - NCSFBH-B Black Metal Gold - - NC*FBV-B NC5MBV-B Black Metal Gold - - NC3MBH-O Metal Gold - - NC3FBV1 Metal Gold - - NC3FBH1B Metal Gold - - NC3FBV1B Black Metal Gold - - NC3FBH1B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBH2B Black Metal Gold - - NC3FBV2B Black Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B NC4FBV2B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B NC4FBV2B NC4FBV	Female	Male	Flange	Contact	3 _{pole}	4 pole	5 pole	Female	Male	Flange	Contact	3 _{pole}	4 pole	5 pole
NC*MBH-B Metal Gold • NC3MBV-B Black Metal Gold - - NCSFBH-B Black Metal Gold - - NC*FBV-B NC5MBV-B Black Metal Gold - - NC3MBH-O Metal Gold - - NC3FBV1 Metal Gold - - NC3FBH1B Metal Gold - - NC3FBV1B Black Metal Gold - - NC3FBH1B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBH2B Black Metal Gold - - NC3FBV2B Black Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B NC4FBV2B Metal Gold - - NC3FBV2B Metal Gold - - NC3FBV2B NC4FBV2B NC4FBV	B Series	5						B Serie	S					
NCSFBH-B NC3MBH-D NC3MDM-3-V NC3MDM-3-N	NC*FBH		Metal	Gold	-	•	٠		NC*MBV	Metal	Gold	•	•	•
NC3MBH-B Black Metal Gold • - NC3FBV1 Metal Gold • - NC3FBH1 NC3MBH-0 Metal Gold • - NC3FBV1 Metal Gold • - NC3FBH1 Metal Gold • - NC3FBV1-B Black Metal Gold • - NC3FBH1-B Black Metal Gold • - NC3FBV2 Metal Gold • - NC3FBH1-B Metal Gold • - NC3FBV2-B Black Metal Gold • - NC3FBV2-SW NC3MBV-1 Metal Gold • - NC3FBV2-SW		NC*MBH	Metal	Gold	٠	٠	٠		NC3MBV-B	Black Metal	Gold	٠	-	-
NC3MBH-0 Metal Gold - NC3FBV1 Metal Gold - NC3FBH1 NC3MBH-1 Metal Gold - NC3FBV1-8 Black Metal Gold - NC3FBH1 Metal Gold - - NC3FBV2 Metal Gold - NC3FBH2 Metal Gold - - NC3FBV2-8 Black Metal Gold - NC3FBH2 Metal Gold - - NC3FBV2-8 Black Metal Gold - NC3FBH2 Metal Gold - - NC3FBV2-SW NC3MBV-N Metal Gold - NC3FBH2 Metal Gold - - NC3FBV2-SW NC3MBV-SW Metal Gold - D Iatch omit -D. NC3FBV2-SW NC3MBV-SW Metal Gold - D Series rear mount only O: Retret is mount only </td <td>NC5FBH-B</td> <td>NC5MBH-B</td> <td>Black Metal</td> <td>Gold</td> <td>-</td> <td>-</td> <td>•</td> <td>NC*FBV</td> <td></td> <td>Metal</td> <td>Gold</td> <td>-</td> <td>٠</td> <td>٠</td>	NC5FBH-B	NC5MBH-B	Black Metal	Gold	-	-	•	NC*FBV		Metal	Gold	-	٠	٠
NC3FBH1 NC3MBH-1 Metal Gold NC3FBV1-B Black Metal Gold NC3FBV1-B Black Metal Gold NC3FBV2 Metal Gold NC3FBV2 Metal Gold NC3FBV2-B Black Metal Gold NC3FBV2-B Metal Gold NC3FBV2-SW NC3MBV-0 Metal Gold NC3FBV2-B Black Metal Gold NC3FBV2-SW NC3MBV-0 Metal Gold NC3FBV2-SW NC3MBV-1 Metal Gold NC3FBV2-SW NC3MBV-SW Metal Gold NC3FBV1-E Metal Gold B Series rear mount only 0: Retention spring on request Fermale Male Shell Contact 3 4 5 6 7 pote pole pole pole pole pole pole pole pol		NC3MBH-B	Black Metal	Gold	٠	-	-	NC5FBV-B	NC5MBV-B	Black Metal	Gold	-	-	٠
NC3FBH1-B Black Metal Gold NC3FBV2 Metal Gold NC3FBV2-B Black Metal Gold NC3FBV2-B Black Metal Gold NC3FBV2-B Metal Gold NC3FBV2-B Black Metal Gold NC3FBV2-B Metal Gold NC3FBV2-W Metal Gold NC3FDV3-W Metal Gold		NC3MBH-0	Metal	Gold	•	-	-	NC3FBV1		Metal	Gold	٠	-	-
NC3FB1 Metal Gold - NC3FBV2-B Black Metal Gold - NC3MBHL Metal Gold - - NC3MBV-0 Metal Gold - NC3MBHL-B Black Metal Gold - - NC3MBV-0 Metal Gold - NC3FBV2-B Black Metal Gold - - NC3FBV2-SW NC3MBV-0 Metal Gold - NC3FBV2-B Black Metal Gold - - NC3FBV2-SW NC3MBV-W Metal Gold - - NC3FBV2-SW NC3FBV2-SW Metal Gold - - D: version come with disassembled Push latch, version with assemble Iatch omit -D. NC3FBV2-SW NC3MDV3-W NC3MDV3-W NC3MDV3-W NC3MDV3-W NC3MDV3-W NC3MDV3-W NC3MDV3-W NC3MDV3-	NC3FBH1	NC3MBH-1	Metal	Gold	٠	-	-	NC3FBV1-B		Black Metal	Gold	٠	-	-
NC3MBHL Metal Gold • NC3MBV-0 Metal Gold • - NC3FBH2 Metal Gold • - - NC3MBV-1 Metal Gold • - NC3FBH2-8 Black Metal Gold • - - NC3FBV2-SW NC3MBV-W Metal Gold • - NC3MBHR Metal Gold • - - NC3FBV2-SW NC3FBV2-SW Metal Gold • - NC3MBH-8 Black Metal Gold • - - NC3FBV2-SW NC3FBV2-SW Metal Gold • - NC3MBH-8 Black Metal Gold • - - D: version come with disassembled Push latch, version with assemble latch omit -D. D: version come with disassembled Push latch, version with assemble latch omit -D. NC3FBH2-8 Metal Gold • - - Biack Cr Gold • - - Biack Cr Gold - - Biack Cr Biack Cr Gold • - - - - NC*FD-L-1 NC*FD-L-1 NC*FD-L-1 NC*FD-L-1 Biack Cr Gold • • • • - <td< td=""><td>NC3FBH1-B</td><td></td><td>Black Metal</td><td>Gold</td><td>•</td><td>-</td><td>-</td><td>NC3FBV2</td><td></td><td>Metal</td><td>Gold</td><td>•</td><td>-</td><td>-</td></td<>	NC3FBH1-B		Black Metal	Gold	•	-	-	NC3FBV2		Metal	Gold	•	-	-
NC3MBHL-B Black Metal Gold - - NC3MBV-1 Metal Gold - - NC3FBH2 Metal Gold - - NC3FBV2-SW NC3MBV-SW Metal Gold - - D: version come with disassembled Push latch, version with assembled NC3FDV2-SW NC3MDM3-W NC3MDHA Metal Gold - - D: version come with disassembled Push latch, version with assembled NC3FDV2-SW NC3MDM3-W NC3MDM3-W NC3MDV Nc4RC Silver - -	NC3FBHL1		Metal	Gold	٠	-	-	NC3FBV2-B		Black Metal	Gold	٠	-	-
NC3FBH2 Metal Gold - - NC3FBV2-SW NC3HBV-SW Metal Gold - - NC3HBH2-B Black Metal Gold - - NC3FBV2-SW NC3HBV-SW Metal Gold - - NC3FBV2-SW NC3MBV-SW Metal Gold - - NC3FBV2-SW NC3MBV-SW Metal Gold - - D: version come with disassembled Push latch, version with assemble NC3HBV2-SW NC3HBV2-SW NC3MDV2-SW NC3MDV2-SW Nc3MDV2-SW Nc3MDV2-SW Nc3MDV2-SW Ncset Silver - - NC3HDV2-SW Ncset Silver - - NC4FD-L-B-1 NC4MD-L-B-1 Nc4MD-L-B-1 Nc4MD-L-B-1 Nc4MD-L-B-1 Nc4MD-L-B-1 Nc4MD-L-B-1 Nc4MD-L-B-1 <		NC3MBHL	Metal	Gold	•	-	-		NC3MBV-0	Metal	Gold	•	-	-
NC3FBH2-B Black Metal Gold - - NC3MBH2 Metal Gold - - NC3MBH2 Metal Gold - - NC3MBV-E Metal Gold - - NC3MBV-E Metal Gold - - D: version come with disassembled Push latch, version with assembled Push latch push		NC3MBHL-B	Black Metal		•	-	-			Metal		٠	-	-
NC3MBHR Metal Gold - - NC3RBH1-E Metal Gold - - NC3FBH1-E Metal Gold - - NC3FBH2-E Metal Gold - - NC3FBH2-E Metal Gold - - NC3MBH-E Metal Gold - - NC3MBH-E Metal Gold - - NC3MBH-E Metal Gold - - Series rearmount only 0: Retention spring on request - - DSeries DL Series - - - NC3FD-V-B NC3MD-V-B Black Cr Gold - - NC3FD-V-BA NC3MD-V-B Black Cr Gold - - NC3FD-V-BA NC3MDM3-V Nickel Silver - - NC3FD-V-BA NC3MDM3-V Nickel Silver - - NC3FD-H-B NC3MD-V-B Black Cr Gold - - NC3FD-H-BAG NC3MD-H-BAG Black Cr <t< td=""><td>NC3FBH2</td><td></td><td></td><td></td><td>•</td><td>-</td><td>-</td><td></td><td></td><td>Metal</td><td></td><td>•</td><td>-</td><td>-</td></t<>	NC3FBH2				•	-	-			Metal		•	-	-
NC3MBHR-B Black Metal Gold - - - D: version come with disassembled Push latch, version with assembled NC3FBH1-E NC3FBH1-E Metal Gold -	NC3FBH2-B				٠	-		NC5FBV-SW	NC5MBV-SW	Metal	Gold	-	-	•
NC3FBH1-E NC3MBV-E Metal Gold - - Iatch omit -D. NC3FBH2-E Metal Gold - - B: Series rear mount only B: Series rear mount only NC3MBH-E Metal Gold - - B: Series rear mount only D: Retention spring on request Female Male Shell Contact 3 4 5 6 D Series NC3MD-V Nickel Silver - - - NC3FD-V-BAG NC3MD-V-BB Black Cr Gold - - - NC3FD-V-BAG NC3MD-V-BB Black Cr Gold - - - NC3FD-V-BAG NC3MD-V Nickel Silver - - - NC*FD-L-1 NC*MD-L-1 Nickel Silver - - NC*FD-L-1 NC*MD-L-B Black Cr Gold - - - NC*FD-L-B NC*FD-L-B Black Cr Gold - - NC*FD-L-B NC*MD-L-B Black Cr Gold - - NC*FD-L-B NC*FD-L-B NC*FD-L-B Black Cr					•	-								
NC3FBH2-E Metal Gold - - B: Series rear mount only NC3MBH-E Metal Gold - - - B: Series rear mount only 0: Retention spring on request Female Male Shell Contact 3 4 5 6 7 pole pole pole pole Female Male Shell Contact 3 4 5 6 7 pole pole pole pole Female Male Shell Contact 3 4 5 6 7 pole pole pole pole Pole pole pole pole pole Pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole pole Pole pole pole pole pole pole Pole pole pole pole pole pole Pole pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole pole Pole pole pole pole Pole pole pole pole Pole pole pole pole Pole pole pole pole Pole pole pole pole Pole pole pole pole Pole pole pole pole Pole					•	-	-			nbled Push late	h, version w	vith a	ssemb	bled
NC3MBH-E Metal Gold - - 0: Retention spring on request Female Male Shell Contact 3 4 5 6 7 pole pole pole pole pole pole pole pole		NC3MBV-E			-	-								
FemaleMaleShell Contact3 4 5 6 7 pole pole pole pole poleFemaleMaleShell Contact3 4 5 6 pole pole poleD SeriesNC3FD-VNC3MD-VNickelSilverNC*FD-L-B.1NC*MD-L-B.1NickelSilverNC3FD-V-BAGNC3MD-V-BAGBlack CrGoldNC*FD-L-B.1NC*MD-L-B.1Black CrGoldNC3FDM3-VNC3MDM3-VNickelSilverNC*FD-L-B.1NC*MD3-L-1NickelSilverNC3FDM3-V-BNC3MDM3-V-BBlack CrGoldNC*FDM3-L-1NC*MDM3-LANickelSilverNC3FDH3-V-BNC3MD-H-BBlack CrGoldNC*FDM3-HBNC3MDM3-LANickelSilverNC3FDH3-HNC3MD-H-BBlack CrGoldNC*FDM3-HBNC*MDM3-H-BNickelSilverNC3FDH3-HNC3MDM3-H-BAGBlack CrGoldNC*FDM3-HBNC*MDM3-H-BNickelSilverNC3FDH3-H8NC3MDM3-H-BAGBlack CrGoldNC*FDM3-HBNC*MDM3-H-BBlack CrNC3FDH3-H8GNC3MDM3-H-BAGBlack CrGoldNC*FDM3-HBNC*MDM3-H-BBlack CrNC3FDH3-H8AGNC3MDM3-H-BAGBlack CrGoldNC*FDM3-HBBlack CrNC3FDH3-H8AGNC3MDM3-H-BAGBlack CrGold<	NC3FBH2-E					-			,					
D Series DL Series NC3FD-V-B NC3MD-V-B Black Cr Gold -		NC3MBH-E	Metal	Gold	•	-	-	0: Retention sp	ring on request					
NC3FD-VNC3MD-VNickelSilverNC3FD-V-BNC3MD-V-BBlack CrGoldNC*FD-L-1NC*MD-L-B-1Black CrGoldNC*FD-L-B-HNC*MD-L-B-HNickelSilverNC*FD-L-B-G-HNC*MD-L-B-G-HNickelSilverNC*FD-L-B-G-HNC*MD-L-HNickelSilverNC*FD-L-B-HNC*MD-L-HNickelSilverNC*FD-L-B-HNC*MD-L-HNickelSilverNC*FD-L-B-HNC*MD-L-H<	Female	Male	Shell					Female	Male	Shell				
NC3FD-V-BNC3MD-V-BBlack CrGold•NC*FD-L-B-1NC*MD-L-B-1Black CrGold••• <td>D Serie</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DL Seri</td> <td>e s</td> <td></td> <td></td> <td></td> <td></td> <td></td>	D Serie	5						DL Seri	e s					
NC3FD-V-BAG NC3MD-V-BAG Black Cr Silver - NC*FD-L-BAG-1 NC*MD-L-BAG-1 Black Cr Silver • • - - - - - - - NC*FD-L-BAG-1 NC*MD-L-BAG-1 Black Cr Silver • • • • · NC Silver · - - - - NC*FDM3-L-1 NC*MDM3-L-1 Nickel Silver · - - NC3FDM3-H NC3MDM3-H Nickel Silver · - - - - NC<*FDM3-H NC*MDM3-H Nickel Silver · - - - NC3FDM3-H NC3MDM3-H Nickel Silver · - - - NC*FDM3-H NC*MDM3-H-B NC3MDM3-H<	NC3FD-V	NC3MD-V	Nickel	Silver	• -		-	NC*FD-L-1	NC*MD-L-1	Nickel	Silver	• •	• •	
NC3FDM3-VNC3MDM3-VNickelSilver••• <td>NC3FD-V-B</td> <td>NC3MD-V-B</td> <td>Black Cr</td> <td>Gold</td> <td>• -</td> <td></td> <td></td> <td>NC*FD-L-B-1</td> <td>NC*MD-L-B</td> <td>-1 Black C</td> <td>r Gold</td> <td>• •</td> <td>• •</td> <td>•</td>	NC3FD-V-B	NC3MD-V-B	Black Cr	Gold	• -			NC*FD-L-B-1	NC*MD-L-B	-1 Black C	r Gold	• •	• •	•
NC3FDM3-V-B NC3MDM3-V-B Black Cr Gold - NC3FDM3-BAG-1 NC3MDM3LBAG-1 Black Cr Silver - - - - - - NC3FDM3-BAG-1 NC3MDM3LBAG-1 NC3MDM3LBAG-1 Black Cr Silver - - - - - NC3FDM3-BAG-1 NC3MDM3LBAG-1 NC3MDM3-H Nickel Silver - - - - NC3FDM3-H NC3MDH3-H Nickel Silver - - - NC3FDM3-H NC3MDM3-H-B Nickel Silver - - - NC3FDM3-H-B NC3MDM3-H-B Nickel Silver - - - - NC3FDM3-H-B NC3MDM3-H-B Nickel Silver - - - NC3FDM3-HBAG NC*MDM3-H-B N	NC3FD-V-BAG	NC3MD-V-B	AG Black Cr	Silver	• -		-	NC*FD-L-BAG	-1 NC*MD-L-BA	AG-1 Black C	r Silver	• •	• •) -
NC3FD-HNC3MD-HNickelSilver••• <t< td=""><td>NC3FDM3-V</td><td>NC3MDM3-</td><td>V Nickel</td><td>Silver</td><td>• -</td><td></td><td>-</td><td>NC*FDM3-L-1</td><td>NC*MDM3</td><td>L-1 Nickel</td><td>Silver</td><td>• •</td><td>• -</td><td></td></t<>	NC3FDM3-V	NC3MDM3-	V Nickel	Silver	• -		-	NC*FDM3-L-1	NC*MDM3	L-1 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-B NC3MDM3-H-BAG Black Cr Gold • NC3FDM3-H-BAG NC3MDM3-H-BAG Black Cr Gold • NC3FD-S-1-B NC3MD-S-1-B Black Cr Silver • NC3FD-LX-BAG NC*MD-LX-BAG Black Cr Silver • NC3FD-LX-BAG NC*MD-LX-BAG Black Cr Silver • • • • • - NC3FD-LX-HA NC*MD-LX-BAG Black Cr Silver • NC3FD-LX-HA NC*MD-LX-BAG Black Cr Silver • • • • • - NC3FD-LX-HA NC*MD-LX-BAG Black Cr Silver • • NC3FD-LX-HA NC*MD-LX-BAG Black Cr Silver • NC3FD-LX-HA NC*MD-LX-BAG Black Cr Silver • NC3FD-LX-HA NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-HA ABAG NC3MD-LX-HA-BAG Black Cr Silver •	NC3FDM3-V-E	B NC3MDM3-	V-B Black Cr	Gold	• -		-	NC3FDM3LBAG-	1 NC3MDM3LE	AG-1 Black C	r Silver	• -		
NC3FD-H-BAG NC3MD-H-BAG Black Cr Silver • • • • • • • • • • • • • • • • • • •	NC3FD-H	NC3MD-H	Nickel	Silver	• -		-	NC3FD-L-1-H	E NC3MD-L-1	-HE Velour (Cr Gold	• -		· -
NC3FDM3-H NC3MDM3-H Nickel Silver • • • • • NC3FDM3-H-B NC3MDM3-H-B Black Cr Gold • • • • • • NC3FDM3-H-BAG NC3MDM3-H-BAG Black Cr Silver • • • • • NC3FDM3-H-BAG NC3MDM3-H-BAG Black Cr Silver • • • • • • NC3FDM3-H-BAG NC3MDM3-H-BAG Black Cr Silver • • • • • • • NC3FDM3-H-BAG NC3MDM3-H-BAG Black Cr Silver • • • • • • • • • • • • • • • • • • •	NC3FD-H-B	NC3MD-H-B	Black Cr	Gold	• -		-	NC*FDM3-H	NC*MDM3-	-H Nickel	Silver	- •	• •) -
NC3FDM3-H-B NC3MDM3-H-B Black Cr Gold • NC3FD-S-1-B NC3MD-S-1-B Black Cr Silver • NC3FDM3-HBAG NC3MDM3-H-BAG Black Cr Gold • NC3FD-S-1-B NC3MD-S-1-B Black Cr Silver •	NC3FD-H-BAG	5 NC3MD-H-B	AG Black Cr	Silver	• -		-	NC*FDM3-H-E	3 NC*MDM3-	-H-B Nickel	Silver	- •	• -	
NC3FDM3-HBAG NC3MDM3-H-BAG Black Cr Gold • DLX Series DLX Crimp Series DLX Crimp Series NC*FD-LX NC*MD-LX Nickel Silver • • • • • NC3FD-LX-HA NC3MD-LX-HA Nickel Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-HA-BAG NC3MD-LX-HA-BAG Black Cr Silver •	NC3FDM3-H	NC3MDM3-	H Nickel	Silver	• -		-	NC*FDM3-H-BAG	G NC*MDM3-H	-BAG Black C	r Silver	- •	• -	
DLX Series DLX Crimp Series NC*FD-LX NC*MD-LX Nickel Silver • • • • NC*FD-LX-B NC*MD-LX-BAG Black Cr Gold • • • • NC*FD-LX-BAG NC*MD-LX-BAG Black Cr Silver • • • •	NC3FDM3-H-B	NC3MDM3-	H-B Black Cr	Gold	• -		-	NC3FD-S-1-B	NC3MD-S-1	-B Black C	r Silver	• -		
NC*FD-LX NC*MD-LX Nickel Silver • • • • • NC3FD-LX-HA NC3MD-LX-HA Nickel Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver •	NC3FDM3-H-BAG	NC3MDM3-H	-BAG Black Cr	Gold	• -		-							
NC*FD-LX NC*MD-LX Nickel Silver • • • • • NC3FD-LX-HA NC3MD-LX-HA Nickel Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver • NC3FD-LX-BAG NC3MD-LX-HA-BAG Black Cr Silver •	DIX Ser	ioc							imn Seri	A C				
NC*FD-LX-B NC*MD-LX-B Black Cr Gold ● ● ● ● ● NC3FD-LX-HA-BAG NC3MD-LX-HA-BAG Black Cr Silver ● NC*FD-LX-BAG NC*MD-LX-BAG Black Cr Silver ● ● ● -	DER Jei								mp seri					
NC*FD-LX-BAG NC*MD-LX-BAG Black Cr Silver ● ● ● ● -	NC*FD-LX	NC*MD-LX	Nickel	Silver	• •	• •	•	NC3FD-LX-HA	NC3MD-LX-	HA Nickel	Silver	• -		
	NC*FD-LX-B	NC*MD-LX-E	B Black Cr	Gold	• •	• •	•	NC3FD-LX-HA-E	BAG NC3MD-LX-H	A-BAG Black C	r Silver	• -		
NC*FD-LX-M3 NC*MD-LX-M3 Nickel Silver • • •	NC*FD-LX-BAG	NC*MD-LX-BA	AG Black Ci	Silver	• •	• •	- (
	NC*FD-LX-M3	NC*MD-LX-N	VI3 Nickel	Silver	• •	• -	-							

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Velour Cr Gold

Silver

Silver

White

Nickel

NC3FD-LX-HE

NC6FSD-LX

NC3MD-LX-HE

NC6MSD-LX

NC3FD-LX-WT NC3MD-LX-WT



Ordering Information for Receptacles

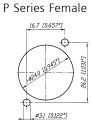
Female	Male	Shell C	Contact	3 4 pole pole	5 6 7 pole pole pole					Sh	ell		Cont	tact	5 pole	6 pole		0 ole
EMC XLR	1					Combo	Α	Seı	ries	5								
NC3FDX-EMC-S	SPEC	Black Cr	Gold	• -		NCJ6FA-H				Bla	ick pl	lastic	G	old	-	•	-	-
						NCJ6FA-H-0				Bla	nck pl	lastic	G	old	-	٠	-	-
Accessories						NCJ6FA-V				Bla	ick pl	lastic	G	old	-	•	-	-
						NCJ6FA-V-0				Bla	ick pl	lastic	G	old	-	٠	-	-
FDR-1					ng flange el cut-outs	Combo	Se	rie	s									
						NCJ*FI-H				Bla	ick pl	lastic	G	old	•	٠	•	•
P Series						NCJ*FI-H-0				Bla	nck pl	lastic	G	old	٠	٠	•	•
						NCJ*FI-S				Bla	ick pl	lastic	G	old	•	•	•	•
NC*FP-1		Nickel	Silver	• •	• • •	NCJ*FI-S-0				Bla	ick pl	lastic	G	old	•	٠	•	•
	NC*MP	Nickel	Silver	• •	• • -	NCJ*FI-V				Bla	ick pl	lastic	G	old	•	•	•	•
NC*FP-B-1	NC*MP-B	Black Cr Black Cr	Gold Gold	•••	•••	NCJ*FI-V-0				Bla	ick pl	lastic	G	old	٠	٠	•	•
NC*FP-BAG-1	NC*MP-BAG	Black Cr	Silver	• •	• • -	Contact #												
								1	2	3	т	R	S	ΤN	RN	SN	G	GI
MPR-HD	Series					NCJ5FI-*		х	х	х	х		х				х	
						NCJ6FI-*		х	х	х	х	х	х				х	
-	NC*MPR-HD	Nickel	Gold	• •	•	NCJ9FI-*		х	х	х	х	х	х	х	х	х	х	
						NCJ10FI-*		х	х	х	х	х	х	х	х	х	х	х

Panel Cutouts

A/AA/B Series













Combo







Assembly Tools





BTXX



HX-R-BNC

DIE-R-BNC-PT

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)
DIE-R-HA-1	Crimp die for XX-HA Series





Plugs & Jacks



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NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®],XIRIUM[®], are registered trademarks of Neutrik AG.

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Introduction

The Neutrik[®] plug and jack program offers a wide range of professional phone connectors including 1/4", 3.5 mm, MIL/B-gauge style and TT or bantam style plugs. The jack range offers an exceptional "slim" 1/4" PCB jack that is almost 20 % smaller than most other designs. The heavy duty M line combines a wide range of options such as three different nose forms and four styles of contacts including 3 PCB and one solder tab. It also includes a 1/4" chassis and cable jack line with the secure locking feature, well known from the XLR range. All jacks are manufactured from strong high-grade thermoplastics and are available in all common versions which make them suitable for audio and industrial applications.

The plug line features:

- Mono (TS) and Stereo (TRS) plugs
- Straight and right-angle versions
- Rugged diecast shell in nickel or black chromium
- Nickel or gold plated contacts
- Chuck type strain relief
- Precision machined plugfinger without rivets
- Coloured boots and rings for coding
- Silent Plug, timbrePLUG and ultimatePLUG for instrument (guitar) applications

All plugs and jacks are specified to IEC 60603-11 and EIA RS-453 or the respective MIL standard.

Neutrik[®] also offers a special jack version which is a combined 3 pole XLR receptacle and a 1/4" phone jack for balanced mic or line inputs in one XLR shell. This "one for two" panel mount offers substantial cost, labour and material savings. For more information on the Combo products see page 35 and 36 or visit our website at www.neutrik.com.





Neutrik brand



Anti-kink bushing

Chuck type strain relief



White painted housing



Right angle plug

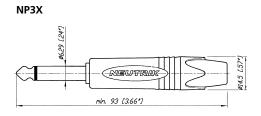
Phone Plug - PX and PRX Series 1/4"

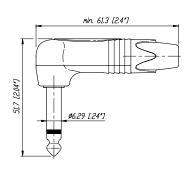


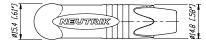
- Slim 1/4" plug with million fold proven chuck type strain relief
- Precision machined one piece contacts no rivets
- Sleek attractive design for best handling convenience
- 14.5 mm only in diameter (right angle 15.4 mm) serves highest packing density of 15.88 mm jack pitch

NP2RX

- Nickel or gold plugfinger in mono (TS) and stereo (TRS)
- Screwless assembly (PRX series as well)
- L-D version available which accommodates cable O.D.s up to 8 mm







15.88 mm jack pitch:







CRYSTALLIZED[™] – Swarovski Elements

crystalCON



Robust metal housing



Big bushing for cable up to 10 mm

jumboPLUG

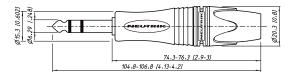
jumboPLUG



NP2XL

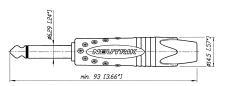
- 2 or 3 pole 1/4" professional phone plug
- Up to 10 mm cable O.D.
- Robust diecast shell in stylish design
- Proven chuck type strain relief for reliable cable retention
- Ergonomic design for best handling convenience
- Precision machined one piece contacts avoid hook up of tip contact

NP3XL



NP2X-B-CRYSTAL

Swarovski Elements



crystalCON

NP2X-B-CRYSTAL

• Mono 1/4" phone plug embellished with CRYSTALLIZED[™]-

• Fancy, noble, valuable, attractive package – an eye-catcher





Robust meta



Moving magnet



Right angle plug

Attention!

For use with instrument (guitar) applications only. Damage may occur if connected to amplifier output.

silentPLUG

1/4" Phone Plug - silentPLUG





Design Criteria

The silentPLUG automatically mutes (shorts) an instrument (guitar) cable to avoid pops and squeals when changing the instrument (guitar) under load.

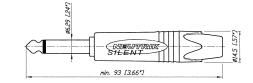
The integrated silent switch (pat. pending) is based on REEDtechnology and guarantees a lifetime beyond 10'000 mating cycles. The PX silentPLUG features a rugged metal shell enhanced with a rubber cushion overlay for improved shock protection.

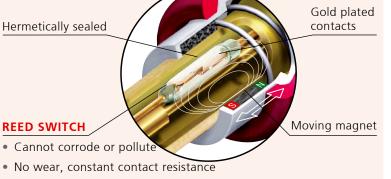
Detail Silent Switch:



- Hermetically sealed switching contacts
- Lifetime beyond 10'000 mating cycles
- Slim right-angle plug with industry proven and reliable chuck type cable strain relief
- Sleek attractive design for convenient handling and connections
- Rubber overlay on straight housing for best shock-protection and reliability
- L-D version available accommodating up to 8 mm

NP2X-AU-SILENT





• Decoupled from switching mechanism







Rotary knob to change the timbre

Right angle plug

timbrePLUG

1/4" Guitar Plug - timbrePLUG



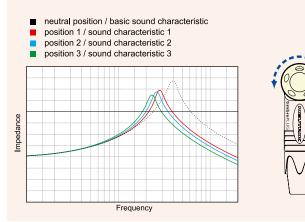
NP2RX-TIMBRE

Design Criteria

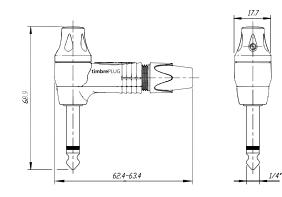
The characteristic sound of a guitar is not only influenced by the guitar (strings, pickups, body) alone but also by the attached instrument cable and the following guitar amp. The timbrePLUG provides the possibility to change the timbre of your guitar sound from neutral, clear sound to warm characteristics.

- Standard timbre of your cable plus 3 additional sound characteristics
- Slim right-angle plug with industry proven and reliable chuck type cable strain relief
- Sleek attractive design for convenient handling
- Gold plug finger, precision machined one piece contacts

timbrePLUG - charakteristic



NP2RX-TIMBRE







1/4" Guitar Plug - ultimatePLUG





Rotary knob to change the timbre

Right angle plug

Moving magnet

Attention!

For use with instrument (guitar) applications only. Damage may occur if connected to amplifier output.

ultimatePLUG

NEW

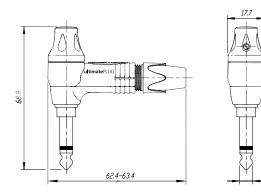


NP2RX-ULTIMATE

- 2 in 1 combines timbrePLUG & silentPLUG
- Change of timbre and avoiding of pop and squeals are combined in one plug
- The ultimate guitar plug
- Slim right-angle plug with industry proven and reliable chuck type cable strain relief
- Sleek attractive design for convenient handling
- Gold plug finger, precision machined one piece contacts

Details of **silent**SWITCH on page 48 and **timbre**PLUG charakteristics on page 49.

NP2RX-ULTIMATE



1/4'





The standard of professional phone plugs

C Series



NP2C + BSP-3

- Available in mono (TS) or stereo (TRS)
- Meets EIA / IEC standards
- Unique plug finger design without rivets
- Sturdy diecast metal shell
- Excellent Neutrik® chuck type strain relief



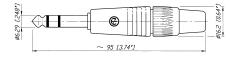
B-Gauge type

MIL/B-Gauge Type Plugs



- 1/4" "B-Gauge" and "MIL" Type Plugs
- All metal design, chuck type strain relief, no rivets
- Meet all prevailing standards
- Available as plug fingers only for overmolding

NP3C



NP3TB-B



NP3CM-B









Bantam plug

Dual bantam plug

0.173" Bantam Type Miniature Plugs



NP3TT-1-B

NP3TT-2

- Very robust ergonomic design
- Gold contact version in combination with the NJ3TTA jack eliminates contact problems due to corrosion or dirt
- The single plug NP3TT-P and the dual bantam plug NP3TT-2 are made for assembling with a standard HEX crimping tool as used with coax cables
- Solder termination for T + R, crimp termination for sleeve contact



Gold plated contacts



Easy connector assembly

3.5 mm Right-Angle Stereo Plug



NTP3RC

NTP3RC-B

- The only available 3.5 mm plug with chuck type strain relief
- All metal housing reliable and robust
- Easy to assemble, simple to use
- Slim design space saving
- Excellent cable protection
- All nickel or black housing, available with gold plated contacts

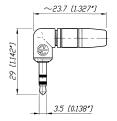
NP3TT-1



NP3TT-P



NTP3RC





Specifications	tim	1/4" Phone Plugs SILENT & CRYSTAL brePLUG & ultimatePLU jumboPLUG	MIL / B-Gauge Type G	0.173" Bantam Type	3.5 mm Stereo Plugs
Electrical					
Rated current: de	pends on mating co	nnector •	•	•	•
	pends on mating co		•	•	•
Insulation resistance: - init	ial: > 2 GΩ	•	•	•	•
- after damp heat te	est: ≥1GΩ	•	•	•	•
Dielectric strength	1 kV dc	•	•	•	•
	200 V dc	SILENT	-	-	-
	100 V dc	ULTIMATE + TIMBRE	-	-	-
M e c h a n i c a l Lifetime > 1'000 mating cyo	cles	•	•	•	•
Wiring:	solder term	inals •	•	•	•
Wire size	mm ²	1	1 (NP3CM: 0.5)	0.25	0.22
	AWG	18	18 (NP3CM: 20)	24	24
Cable O.D.:	mm	4 – 7 (≤ 10: NP*XL)	4 – 7	4 - 4.8	2 – 4.5
Materials					
Shell:		Zinc diecast	Brass	Brass (CuZn39Pb3)	Zinc diecast

Shell:		Zinc diecast	Brass	Brass (CuZn39Pb3)	Zinc diecast
		(ZnAl4Cu1) Ni or	(CuZn39Pb3)	2 µm Ni (Su) plated	(ZnAl4Cu1) Ni or
		black Cr plated	black or red coated	PA 6 30 % GR	black Cr plated
Insulation:	Polyamide (PA 6.6 30 % GR)	•	•	•	PA 6.6 15% GR
Contacts:	Brass (CuZn39Pb3)	•	•	• (Tip: CuSn6)	•
	2 µm Ni (Su) or Au plated	•	 or Brass 	2 µm TRIBOR® (NiP-AuCo)	•
Chuck:		POM	POM	-	POM
Bushing:		POM + PU	-	-	CuZn39Pb3 + PU
					(Ni or black Chrome)
Rubber shell-overlay:		EPDM	-	-	-

Environmental

Temperature range:	-20 °C to +65 °C	•	•	•	•
Solderability complies with	IEC 68-2-20	•	•	•	•



Part Numb	per	Shell	Contacts	Standards	Remarks
				Compatibility	
1/4" Pro	fession	nal Phone I	Plugs -	PX and PRX Se	eries
NP2X	NP2RX	Nickel	Nickel	IEC 60603-11 / EIA RS-453	Mono plug, black bushing
NP2X-BAG	NP2RX-BA		Nickel	ILC 00003-117 LIA 1(3-433	Mono plug, black bushing
NP2X-B	NP2RX-B	Black Cr	Gold	•	Mono plug, black bushing
NP2X-WT	-	White painted			Mono plug, white bushing
NP3X	NP3RX	Nickel	Nickel	•	Stereo plug, black bushing
	NP3RX-BA		Nickel		Stereo plug, black bushing
NP3X-B	NP3RX-B	Black Cr	Gold	•	Stereo plug, black bushing
*-D	*-D	DIACK CI	Gold	•	Bulk packed to be ordered in multiples of 100
silentPL	UG - sp	oecial Guit	ar Plug		
NP2X-AU-SII	LENT	Rubber overlay	Gold	IEC 60603-11 / EIA RS-453	Mono plug, silent switch
NP2RX-AU-S	SILENT	red coated	Gold	IEC 60603-11 / EIA RS-453	Right angle mono plug, silent switch
• : D					
		pecial Gui	tar Più	g	
NP2RX-TIME	BRE	red coated	Gold	IEC 60603-11 / EIA RS-453	Right angle mono plug, timbre switch
ultimate		special G	uitar P	lua	
		-	uitai r	lug	
NP2RX-ULTII	MATE	Black Cr	Gold	IEC 60603-11 / EIA RS-453	Right angle mono plug, timbre switch & silent switch
crystalC	ON - 1	/4" Profess	ional F	Phone Plug	
-				-	
NP2X-B-CRY	(STAL	Black Cr	Gold	IEC 60603-11 / EIA RS-453	Mono plug, black bushing, equipped with CRYSTALLIZED™ – Swarovski Elements
umboPL	.UG - 1	/4''plugfo	or thic	k instrument a	nd loudspeaker cables
NP2XL		Nickel	Nickel	IEC 60603-11 / EIA RS-453	Mono plug, black bushing
NP3XL		Nickel	Nickel	•	Stereo plug, black bushing
1/4" Pro	fession	nal Phone I	Plugs -	PC Series	
NP2C		Nickel	Nickel	IEC 60603-11 / EIA RS-453	Mono plug, black bushing
NP2C-BAG		Black Cr	Nickel	EC 00005-117 LIA N3-455	Mono plug, black bushing
NP2C-BAG		Black Cr	Gold	•	Mono plug, black bushing and gold contacts
NP3C		Nickel	Nickel	•	Stereo plug, black bushing
NP3C-BAG		Black Cr	Nickel	•	Stereo plug, black bushing
NP3C-BAG		Black Cr	Gold	•	Stereo plug, black bushing and gold contacts
NP2C-BAG-1	Τ-ΔΙΙ		Vickel + T: G	• blc	Mono plug, black bushing with gold tip
NP2C-T10A		Nickel	Nickel + 1. G	•	Mono plug, red bushing, with built-in 1:10 transformer
INIZC-ITUA/	~	NICKEI	INICKEI	-	to convert microphone levels to guitar inputs
NP2RCS	Ni	ckel + black plastic	Nickel	•	Mono right-angle plug, black bushing
NP3RCS		ckel + black plastic	Nickel	•	Stereo right-angle plug, black bushing
NP*C-D	INI	ckei + black plastic	INICKEI		Bulk packed to be ordered in multiples of 100
					Buik packed to be ordered in multiples of 100

Part Number	Shell	Contacts	Standards Compatibility	Remarks
MIL/B-gauge	Type Phone	Plugs		
NP3TB-B NP3TB-R NP3TM-B NP3TM-R NP2CM-B NP2CM-R NP3CM-B NP3CM-R	Black Red Black Red Black Red Black Red	Nickel Nickel Nickel Brass Brass Brass Brass Brass	B-GAUGE BP0316 MIL-P-642/2 MIL-P-642/4 MIL-P642/5A	1/4" B-Gauge plug 1/4" B-Gauge plug 1/4" MIL plug 1/4" MIL plug Mono 1/4" MIL plug Mono 1/4" MIL plug Stereo 5.23 mm (0.206") MIL plug Stereo 5.23 mm (0.206") MIL plug

0.173" Bantam Type Miniature Plugs

NP3TT-1-B	Nickel + black plastic	Nickel	MIL-P-642/13	4.4 mm (0.173") Bantam plug with solder contacts, black sleeve
NP3TT-1-R	Nickel + red plastic	Nickel	٠	4.4 mm (0.173") Bantam plug with solder contacts, red sleeve
NP3TT-AU-B	Nickel + black plastic	Gold	•	4.4 mm (0.173") Bantam plug with solder contacts, black sleeve
NP3TT-AU-R	Nickel + red plastic	Gold	•	4.4 mm (0.173") Bantam plug with solder contacts, red sleeve
NP3TT-P-B	Black plastic	Nickel	•	4.4 mm (0.173") Bantam plug with solder contacts, black sleeve
NP3TT-P-R	Red plastic	Nickel	•	4.4 mm (0.173") Bantam plug with solder contacts, red sleeve
NP3TT-P-AU-B	Black plastic	Gold	•	4.4 mm (0.173") Bantam plug with solder contacts, black sleeve
NP3TT-P-AU-R	Red plastic	Gold	•	4.4 mm (0.173") Bantam plug with solder contacts, red sleeve
NP3TT-2	Black plastic	Nickel	•	4.4 mm (0.173") Twin Bantam plug with solder contacts, black sleeve

3.5 mm Right-Angle Stereo Plug

NTP3RC	Nickel	Nickel	IEC 60603-11	3.5 mm audio plug with chuck and bushing
NTP3RC-B	Black Cr	Gold	IEC 60603-11	3.5 mm audio plug with chuck and bushing



Accessories

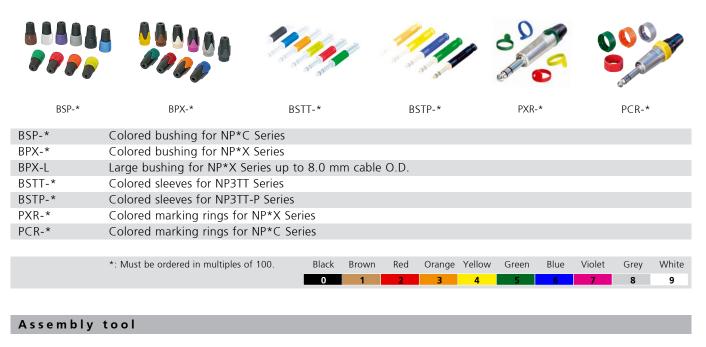


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HX-TT-1	Assembly and crimp tool for NP3TT-1/AU
HX-R-BNC	HEX crimp tool for NP3TT-P*
DIE-R-BNC-PJ	HEX crimp die for NP3TT-P* (5.4 mm)
HTXP	Hand tool to tighten the PX and XX-bushing
HTPXS	Hand tool to hold shell of PX Plug

HTPXS





1/4" cable jack with locking



Neutrik cable retention

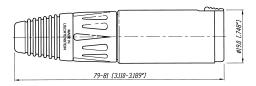
Locking 1/4" Cable Jacks





- Securely locking cable jack
- Mates with all mono or stereo plugs specified to EIA RS-453
- Extremely robust and reliable
- Excellent Neutrik cable retention
- Colored boots available in 10 colors
- For cable O.D.s up to 8 mm

NJ3FC6









Release latch

Standard D mounting dimensions

Locking 1/4" Chassis Jacks



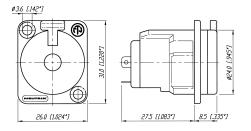




NJ3FP6C-BAG

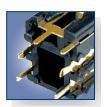
- Mates with all mono or stereo plugs specified to EIA RS-453
- Dimensionally compatible with D Series (31 x 26 mm)
- Securely locking chassis jack
- Solder terminals
- Special version with black plastic shell
- Choice of grounding option (see on www.neutrik.com)

NJ3FP6C









Snapping cap

Solder tags

1/4" Vertical Jacks



NJ*FD-V

- Neutrik 1/4" Vertical PCB Jacks come in either standard 1/4" (FD) or mil gauge (TB) versions
- They feature a snap on/twist off cap which drastically reduces assembly times
- Retention force is provided by a special spring element independent of the contacts which results in optimal contact force with minimal contact wear
- Gold plated contact area for long durability and reliable, corrosion free operation

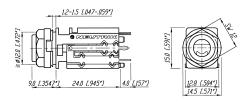




NJ6TB-V

- High packing density compact design allows for more jacks in less space
- Available in Stereo switching and non-switching versions, and Mono non-switching version
- More than 10'000 insertion / withdrawal cycles

NJ*FD-V



*: 2, 3, 5, 6









Half threaded nose

Chrome ferrule

Plastic nut

M Jacks



NMJ4HHD2



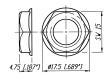
- Available in all common versions:
 - mono
 - stereo
 - switchedunswitched
- Hardwire and PCB version
- Nose type in
- half threaded
- fully threaded
- chrome ferrule
- Full threaded and chrome nose M Jacks are supplied with

washer and fixing nut

- Mounting hardware for half threaded nose must be ordered separatly
- Fascia appearance in plastic or chrome

NRJ-NUT-B

NRJ-WB (washer)

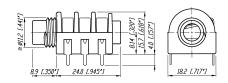




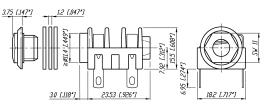


NMJ6HFD2

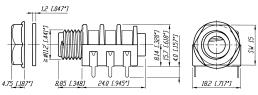
NMJ2HC-S



NMJ4HC-S



NMJ6HFD2









Half threaded nose



Chrome nose



Chassis ground contact



Gold plated contacts

Slim Jacks













NRJ4HH-1

NRJ6HF-1

NRJ6HM-1

NRJ-NUT-B

NRJ-NUT-MK

NRJ-NUT-MN (Metal Nose only)

- High board packing density
- Nose type in
 - half thread
 - fully threaded
 - metal
- *-1 versions meet the requirements of EMC rules through efficient chassis grounding system
- Retention spring ensures optimal grip on inserted plugs, avoiding the chance of lost connection
- All Slim line jacks have PCB horizontal mount pins
- Mounting nuts in different versions available must be ordered separatly

NRJ-NUT-B



NRJ-NUT-MS

6.43 [.253*] 15.75 [.620*]



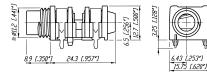
NRJ-NUT-MK



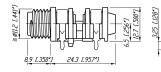
NRJ-NUT-MN (Only compatible with metal nose). Thread pitch is a 3/8" 32 UNEF 2A.



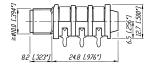
NRJ4HH-1







NRJ6HM-1









NRJ-NUT-MS





Plane nose



Quick fix nose



Quick fix nut



Fully threaded nose

Stacking Jacks





NSJ12HL

- Mono and stereo dual slim jack socket for PCB mounting with switch contacts
- Mounting method by either two quick fix or threaded nuts or one single center screw



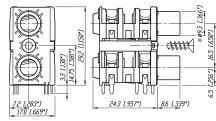


NSJ12HH-1

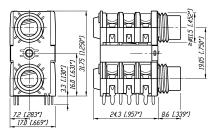
NSJ12HF-1

- Highest board packing density as two jacks are in a single footprint, fit in 1 RU
- Version with fully and half threaded nose, full nose, quick-fit and plane

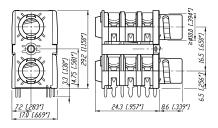
NSJ8HC



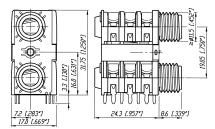
NSJ12HH-1



NSJ12HL



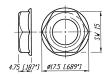
NSJ12HF-1



NSJ-NUT-B (Quick fix nut)



NRJ-NUT-B





Technical Data

Specifications		Vertical Jack	Locking Cable & Chassis Jack	M Jack	Slim Jack	Stacking Jack
Electrical						
Contact resistance	- initial	< 10 mΩ	< 6 mΩ	< 15 mΩ	< 10 mΩ	-
	- Top row	-	-	-	-	< 15 mΩ
	- Bottom row	-	-	-	-	< 10 mΩ
Switch contact resistance	- for silver	-	-	< 30 mΩ	< 25 mΩ	-
	- for gold	< 15 mΩ	-	-	< 10 mΩ	-
	- Top row	-	-	-	-	< 15 mΩ
	- Bottom row	-	-	-	-	< 10 mΩ
Insulation resistance	\geq 1G Ω @ 500 V dc	•	•	•	•	•
Dielectric strength	1 kV dc	•	•	•	•	•
Rated current		3 A	10 A	3 A	3 A	3 A
Rated switch contact current		0.25 A @ 12 V	N/A	0.5 A @ 50 V	0.5 A @ 50 V	0.5 A @ 50 V

Mechanical

Lifetime	> 10`000 cycles	•	•	•	•	•
Insertion / withdrawal force		< 10 N / > 8 N	< 20 N / < 20N	< 20 N / > 10 N	< 20 N / > 10 N	< 20 N / > 10 N
Cap opening torque		25 N cm / 9.84 N in	-	-	-	-
Locking force		-	> 80 N	-	-	-
Wire size		-	1 mm ² / 18 AWG ¹	-	-	-
Cable O.D. (FC6 only)		-	3.5 - 8.0 mm	-	-	-
Panel thickness		1.2 - 1.5 mm [0.047 - 0.0	6"] -	-	-	-
	- Full nose type	-	-	< 3.0 mm	< 3.0 mm	-
	- Half nose type	-	-	< 1.0 mm	< 1.0 mm	-
	- Chrome nose	-	-	< 4.7 mm	-	-
	- NSJ*HL	-	-	-	-	1.0 - 1.6 mm
	- NSJ*HC	-	-	-	-	> 1.0 mm

Material

Shell / Handle		PA 6.6 30% GR	ZnAl4Cu1	PA 6.6 15% GR	PA 6 15% GR	PA 6 15% GR
Shelly Hundle		1A 0.0 50 /0 GR	Ni or black	1A 0.0 1570 GR	17013/000	IA01570 GR
	- FP6P					
	- FFOF	-	PA 6.6 30% GR	-	-	-
Insulation		-	PA 6.6 30% GR	-		
Contacts		CuSn6	CuBe2/CuZn37 (ground) CuSn6	CuSn6	CuSn6
Contact surface		0.2 µm Au	2 µm Ag	gal 2 µm Ag/0.2 µm Au	gal 2 µm Ag/0.2 µm Au	gal 2 µm Ag
Cap / Nut / Washer		POM	-	PA 6.6 15% GR	PA 6.6 15% GR	PA 6.6 15% GR
Ring Nut		-	-	-	Brass (Ni plated)	Brass (Ni plated)
Chuck		-	POM	-	-	-
Bushing		-	PA 6.6 15% GR + PUR	-	-	-
Temperature range	-25 °C to +70 °C	•	•	•	•	•
① max. for soldering tag						

Environmental

Solderability complies with	IEC 68-2-20		•	•	•	• •
Standard Compatibility						
EIA RS 453 + I	EC 60603-11	NJ*FD	•	•	•	•
B-GAUGE BPC) 316, MIL-J-641/3	NJ*TB	-	-	-	-
Circuits:						
Mono unswitched	Mono switched		Stereo unswitche	ed	2x switching (normalling) Stereo	3x switching (normalling) Stereo
2 ° T °		N	q	o S o R o T		
N*J2**	N*J4**		N*J3**		N*J5**	N*J6**
EXCEPTION: NRJ*HM-1-PRE	& NRJ*HH(F)-1 Sl	eeve no	ot switched			



Part Numbe	r Shell	Contacts	Terminations	Standards Compatibility	Remarks
Slim Jack					
PCB Mount	Sockets - S	witched			
NRJ3HF-1	Black/Plastic	Silver	Horizontal PCB mount	IEC 60603-11/EIA RS 453	Stereo, full threaded nose, chassis ground contact
NRJ4HF	٠	•	•	•	Mono, full threaded nose
NRJ4HF-1	•	•	•	•	Mono, full threaded nose, chassis ground contact
NRJ6HF	•	•	•	•	Stereo, full threaded nose
NRJ6HF-1	•	•	•	•	Stereo, full threaded nose, chassis ground contact
NRJ4HH	•	•	•	•	Mono, half threaded nose
NRJ4HH-1	•	•	•	•	Mono, half threaded nose, chassis ground contact
NRJ6HH	•	•	•	•	Stereo, half threaded nose
NRJ6HH-1	•	•	•	•	Stereo, half threaded nose, chassis ground contac
NRJ6HF-AU	•	Gold	•	•	Stereo, full threaded nose, gold plated contacts
NRJ6HF-1-AU	•	Gold	•	•	Stereo, full threaded nose, chassis ground contact
					gold plated contacts
NRJ6HH-AU	•	Gold	•	•	Stereo, half threaded nose, gold plated contacts
NRJ-NUT-B	•	-	-	-	Hexagonal black plastic nut
NRJ-NUT-R	Red/Plastic	-	-	-	Hexagonal red plastic nut
NRJ-NUT-MK	Metal/Ni plated	-	-	-	Metal ring nut, knurled
NRJ-NUT-MS	Metal/Ni plated	-	-	-	Metal ring nut

TED Mount Sockets - Switched with Metal Nose						
NRJ6HM-1	Black/Plastic	Silver	Horizontal PCB mount	IEC 60603-11/EIA RS 453	Stereo, metal threaded nose	
NRJ6HM-1-AU	•	Gold	•	•	Stereo, metal threaded nose, gold plated contacts	
NRJ-NUT-MN	Metal	-	-	-	Hexogonal metal nut (for metal nose jack only)	

Stacking Jack

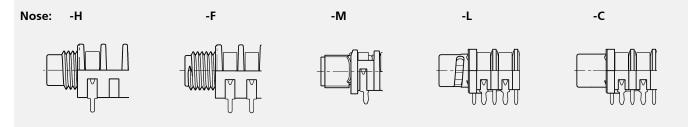
NSJ8HL	Polyamid PA 6.6 GR	Silver	Horizontal PCB mount	IEC 60603-11/EIA RS 453	Mono, quick fix nose
NSJ12HL	•	•	•	•	Stereo, quick fix nose
NSJ8HC	•	•	•	•	Mono, full nose
NSJ12HC	•	•	•	•	Stereo, full nose
NSJ12HF-1	•	•	•	•	Full threaded nose
NSJ12HH-1	•	•	•	•	Half threaded nose
NSJ-NUT-B	Black/Plastic	-	-	-	Quick fix nut

All Slim jacks are for PCB mount only.

Mounting nuts must be ordered separately, except for Stacking Jack type NSJ8HL and NSJ12HL.

Ordering Key:

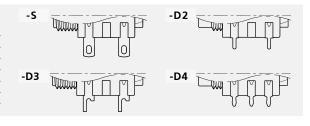
NRJ*H	NEUTRIK Jack Horizontal	* number of contacts:
	H half threaded nose	2 mono unswitched
	F full threaded nose	4 mono switched
	L quick fix nose	6 stereo switched
ï	M metal threaded nose	8 mono stacking jack
	C plane nose	12 stereo stacking jack
	-1 chassis ground contact	
	-1 chassis ground contact	



Part Numb	er Shell (Contacts	Terminations	Standards Compatibility	Remarks	
/4" Loc	king Jack					
NJ3FC6 NJ3FC6-BAG	Nickel Black	Silver	Wire soldering	IEC 60603-11/EIA RS 453	Cable Jack	
VJ3FP6C	Nickel	•	•	•	Chassis Jack	
NJ3FP6C-B	Black	Gold				
VJ3FP6C-BAG	Black	Silver	•	•	•	
VJ3FP6F-P	Black/Plastic	•	•	•	Plastic Chassis	
NJ3FP6P-BAG	Black/Plastic	•	•	•	Plastic Chassis	
Accessor	ies					
	Example	4	DROPPI		Example	>
DSS	SCDR	NDJ	NZP1F	RU-12 SC	CDX SCCD-W SCDP-*	
NZP1RU-8	Panel 1RU housin	a with 8 [D-shano cutouts	SCDX	Hinged cover seals locking 1/4 chassis jack, IP42 rat	bot
		5	D-shape cutouts	SCCD-W	Spring-loaded cover to seals locking 1/4 chassis jack, if 42 fail	
	Lettering plate, co			SCDP-*	D-Size sealing gaskets, color coding	n c
	51 7		or locking 1/4 "chassis		D Size searing gaskets, color county	
	dummyPLUG for			Juck	(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)	
1/4" Ver	tical Jack					
	tical Jack	Gold	Vertical PCB mount	IEC 60603-11/EIA RS //53	Non-switching Mono Jack (T/S)	
NJ2FD-V	tical Jack Black/Plastic		Vertical PCB mount	IEC 60603-11/EIA RS 453	Non-switching Mono Jack (T/S)	
NJ2FD-V NJ3FD-V	Black/Plastic	Gold •		•	Non-switching Stereo Jack (T/R/S)	
NJ2FD-V NJ3FD-V NJ5FD-V	Black/Plastic	٠	•	IEC 60603-11/EIA RS 453	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S)	
NJ2FD-V	Black/Plastic	٠	•	• • •	Non-switching Stereo Jack (T/R/S)	
NJ2FD-V NJ3FD-V NJ5FD-V VJ6FD-V NJ6TB-V	Black/Plastic • •	• •	• • •	• • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN)	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ6TB-V M Jack	Black/Plastic • •	• • •	• • • •	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN)	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ6TB-V M Jack NMJ2HF-S	Black/Plastic	• • •	• • • •	• • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V M Jack NMJ2HF-S NMJ3HF-S	Black/Plastic	• • • Silver	• • • Horizontal PCB mount	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V M Jack NMJ2HF-S NMJ3HF-S NMJ4HF-S	Black/Plastic	• • Silver	• • • Horizontal PCB mount	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V M J A c k NMJ2HF-S NMJ3HF-S NMJ4HF-S NMJ2HC-S	Black/Plastic	• • Silver •	• • • Horizontal PCB mount • •	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V M J A c k NMJ2HF-S NMJ3HF-S NMJ4HF-S NMJ4HF-S NMJ2HC-S NMJ4HC-S	Black/Plastic	• • Silver •	• • • Horizontal PCB mount • •	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, unswitched, full threaded nose, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V MJ2HF-S NMJ2HF-S NMJ4HF-S NMJ2HC-S NMJ4HC-S NMJ4HFD2	Black/Plastic	• • Silver •	• • • Horizontal PCB mount • •	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, unswitched, full threaded nose, solder tags Mono, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, unswitched, Chrome ferrule, solder tags	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6TB-V MJ2HF-S NMJ2HF-S NMJ4HF-S NMJ4HF-S NMJ4HC-S NMJ4HFD2 NMJ4HFD3	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	B-Gauge BPO316 Mil-J-641/3	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 4 Mono, unswitched, full threaded nose, solder tags 5 Stereo, unswitched, full threaded nose, solder tags 5 Mono, switched, full threaded nose, solder tags 6 Mono, unswitched, full threaded nose, solder tags 7 Mono, switched, full threaded nose, solder tags 7 Mono, switched, full threaded nose, solder tags 7 Mono, switched, Chrome ferrule, solder tags 7 Mono, switched, Chrome ferrule, solder tags 7 Mono, switched, full threaded nose, PCB mount	
NJ2FD-V VJ3FD-V VJ5FD-V VJ6FD-V VJ6FD-V M Jack M Jack NMJ2HF-S NMJ3HF-S NMJ4HF-S NMJ4HC-S NMJ4HFD3 NMJ4HCD2	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, Chrome ferrule, solder tags Mono, switched, Chrome ferrule, solder tags Mono, switched, full threaded nose, PCB mount Mono, switched, full threaded nose, offset PCB mount	vashe
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NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ2HF-S NJ2HF-S NJ3HF-S NJ4HF-S NJ4HF-S NJ4HFD2 NJ4HFD3 NJ4HCD2 NJ4HHD2 NJ6HF-S	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/N/S/SN) 4 mono, unswitched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, switched, Chrome ferrule, solder tags 5 mono, switched, full threaded nose, PCB mount 5 mount, Mono, switched, half threaded nose, PCB mount, without nut and w	vashe
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/N/S/SN) 4 mono, unswitched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, unswitched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, switched, full threaded nose, solder tags 5 mono, switched, Chrome ferrule, solder tags 5 mono, switched, full threaded nose, PCB mount 5 mono, switched, full threaded nose, offset PCB mount 5 mono, switched, half threaded nose, PCB mount, without nut and w 5 mono, switched, full threaded nose, solder tags	vashe
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NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ6TB-V M J A c k NMJ2HF-S NMJ2HF-S NMJ4H-S NMJ4HC-S NMJ4HFD3 NMJ4HFD3 NMJ4HCD2 NMJ4HCD2 NMJ4HCD2 NMJ6HF-S NMJ6HC-S NMJ6HC2	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, Chrome ferrule, solder tags Mono, switched, full threaded nose, PCB mount Mono, switched, full threaded nose, offset PCB mount Mono, switched, half threaded nose, Solder tags Stereo, switched, full threaded nose, solder tags Stereo, switched, Chrome ferrule, PCB mount	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ6TB-V M J ack MJ2HF-S NMJ2HF-S NMJ4HF-S NMJ4HF-S NMJ4HFD2 NJ4HFD2 NJ4HFD2 NJ4HFD2 NJ6HF-S NMJ6HC2 NMJ6HFD2 NMJ6HFD2	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, Chrome ferrule, solder tags Mono, switched, full threaded nose, PCB mount Mono, switched, full threaded nose, offset PCB mount Mono, switched, full threaded nose, solder tags Stereo, switched, full threaded nose, PCB mount, without nut and w Stereo, switched, full threaded nose, PCB mount, without nut and w Stereo, switched, full threaded nose, PCB mount, without nut and w	
NJ2FD-V NJ3FD-V NJ5FD-V NJ6FD-V NJ6FD-V NJ6TB-V M Jack MJ2HF-S NMJ2HF-S NMJ2HF-S NMJ4HC-S NMJ4HCD2 NJ4HFD3 NJ4HCD2 NJ4HCD2 NJ4HFD3 NJ4HCD2 NJ6HF-S NMJ6HC-S NMJ6HC2 NJ6HHD2	Black/Plastic	• • Silver • •	• • • Horizontal PCB mount • • • • • • •	• • B-Gauge BPO316 Mil-J-641/3 • IEC 60603-11/EIA RS 453 • • • • • • • • • • • • • • • • • • •	Non-switching Stereo Jack (T/R/S) 2 x switching (normalling) Stereo jack (T/TN/R/RN/S) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) 3 x switching (normalling) Stereo jack (T/TN/R/RN/S/SN) Mono, unswitched, full threaded nose, solder tags Stereo, unswitched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, full threaded nose, solder tags Mono, switched, Chrome ferrule, solder tags Mono, switched, full threaded nose, PCB mount Mono, switched, full threaded nose, offset PCB mount Mono, switched, full threaded nose, solder tags Stereo, switched, full threaded nose, PCB mount, without nut and w Stereo, switched, full threaded nose, PCB mount Stereo, switched, full threaded nose, PCB mount, without nut and w Stereo, switched, full threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, half threaded nose, PCB mount, without nut and w Stereo, switched, full threaded nose, PCB mount, without nut and w	

Ordering Key:

NMJ*H	NEUTRIK M Jack Horizontal	*	number of contacts:
Н	half threaded nose	2	mono unswitched
F	fully threaded nose	3	stereo unswitched
C	chrome nose	4	mono switched
-S	solder tag	5	stereo switched (T/S)
D2	PCB pins 02	6	stereo switched (T/R/S)
DB	PCB pins 03		
D4	PCB pins 04		











Soft-touch surface



Phono socket

Profi[®] RCA Series



NF2C-B2

- Makes ground before signal contact and breaks signal before ground
- No more disturbing noise and broken speaker cones
- Precisely machined to our demanding quality standards
- Neutrik unique chuck type strain relief
- Gold plated contacts
- Sleek barrel with soft touch surface and colored shrink sleeve
- Improved ground solder lug for ease soldering





NF2D-4

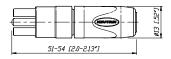
NF2D-B-6

• Precisely machined to our demanding quality standards

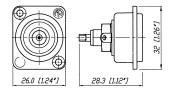
Phono Socket

• Gold plated contacts

NF2C-B2



NF2D-*



*: available in 9 colors see page 67





Specification		Profi®	Phono Socket
Electrical			
Rated current per contact	16 A rms continuous	•	•
Rated insulation voltage	50 V ac	•	•
Insulation resistance		> 100 GΩ	< 5 GΩ
Dielectric strength		1.5 kV dc	0.5 kV dc
Capacitance (pin to shell)		7 pf	9 pf
Mechanical			
Life time (mating cycles)	> 2000	•	•
Cable O.D. range	3.0 – 7.3 mm	•	-
Wiring	soldering	•	•
Max. wire size	2.5 m ² / AWG 14	•	-
Cable anchoring	Neutrik [®] chuck type strain relief	•	-
Material			
Housing	Brass (CuZn39Pb3)	•	
Housing	Zinc diecast (ZnAlCu1)	-	•
Insert	PBTP 20% GR	•	- -
Contacts	Brass (CuZn39Pb3)	•	•
Contact plating	0.05 μm Au plated over 2 μm Ni	•	•
Chuck	Polyacetal (POM)	•	-
Environment			
Temperature range	-30 °C to +80 °C	•	•
Protection class	IP 40	•	•
Flammability	UL 94 HB	•	•
Solderability	complies with IEC 68-2-20	•	•

Ordering Information

Phono Profi[®]

NF2C-B2 Professional "phono Plug" (RCA or CINCH type), two plugs with red and black coding, two strain relief chucks for a second cable diameter

Phono (RCA) Socket

NF2D-*	Chassis Phono (RCA) socket in D Shape housing
NF2D-B-*	Chassis Phono (RCA) socket in black D Shape housing
	* color coding: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White

Accessories

NDP	Dummy plug for phone socket
NZP1RU-8	Panel 1RU housing with 8 D-shape cutouts
NZP1RU-12	Panel 1RU housing with 12 D-shape cutouts
SCL	Plastic sealing cover to protect the connector sockets against dust and moisture
SCDP-*	D-Size sealing gaskets, colour coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover to seals D-size chassis connectors, IP 65 rated





Simple housing

plug2PLUG

p l u g 2 P L U G



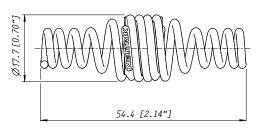
NA2JJ

• The plug2PLUG is a simple yet sophisticated plug adapter for a quick and easy connection of two mono TS plugs.



Application: 1/4" Phone Plug to 1/4" Phone Plug

NA2JJ



Ordering Information

plug2PLUG

NA2JJ 2 pole coupler to extend two 2 pole 1/4" Phone Plugs





Loudspeaker Connectors



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NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.

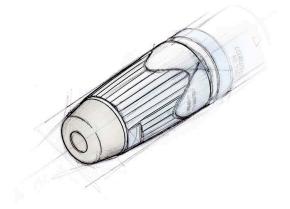
speakON

Introduction

The Neutrik speakON[®] Series, known in the professional audio industry as "The loudspeaker connector" has become the state of the art in speaker and amplifier connectivity. Introduced in 1987 speakON was invented by Neutrik as a result of customer demand for a reliable speaker connection. The pro audio market quickly realized the advantages of this completely new connection system.

The design is optimized for loudspeaker applications with an outstanding cost-performance ratio. As market leader for speaker connections we are proud to offer an all-encompassing product line for the specific needs of today's market. Recent designs such as the STX series and the speakON Combo offer solutions for nearly every speaker application.





Integrated Design

One of Neutrik's goals is to create products that are easily distinguished from other manufacturers. We have successfully achieved this in our engineering efforts as well as the patent and trademark protection granted for our unique products. To further establish a clear difference between Neutrik and our competitor's products we give our customer the means to easily identify original Neutrik products. Therefore all of our new products such as the SPX and the STX series are designed according to the protected integrated design. (EU-Pat.: DM/057 379, US-Pat. Pending, CHINA-Pat.: 02305192.2 / 193.0/194.9 / 195.7)



Features & Benefits

Today's speakON series is a result of a continuous product improvement process. The principal idea has been kept and optimized with material and design modifications over the years.

A traditional speakON stands for:

- Reliable and robust, easy and fast to assemble
- 2, 4 and 8 pole cable and chassis connectors in various versions
- Optimal "Quick Lock" system for speaker applications
- Neutrik proven and unique chuck type cable strain relief
- Outstanding cost-performance ratio
- De facto standard
- Meets all worldwide safety requirements (IEC, UL, ...)

Beyond that, the latest designs as the SPX and STX series offer:

- Up to 50 A current rating
- Only 3 parts with 1 piece strain relief design for even easier assembly
- Convertable right-angle version
- Weatherproof and extremely robust



speak O N





Quick lock

Chuck type strain relief







Right angle conversion

speakON[®] SPX Series 2 & 4 Pole Cable Connector



NL2FX



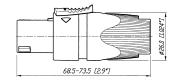
NL4FX



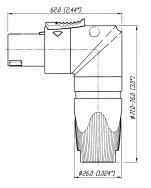
NL4FRX

- Current rating 40 A rms continuous
- Up to 50 A audio signal, duty cycle 50%
- Only 3 parts, easy to assemble
- High impact materials long-lasting and reliable
- Easy and extremely precise locking system "Quick Lock"
- Improved grip on latch
- 1 piece strain relief, chuck for 7 to 14.5 mm cable O.D.
- Color coding possible
- Improved screw-type termination for highest pull-out force
- Integrated design guarantees "Made by NEUTRIK®"

NL4FX







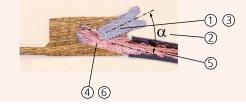


Design Criteria

This second generation of speakON connectors features higher current rating for the operation of high power speakers and amplifiers carrying more than 1`000 Watts. Only 3 parts make it fast and easy to assemble with a more reliable performance. Our unique design makes it possible to change easily and quickly from a straight connector to the right-angle version, even without disconnecting the cable.



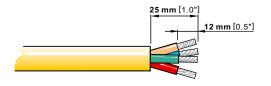
Improved SPX-Series screw contacts! (Wire position after assembly)



- Progressive clamping as wire is pushed forward
- 2 Acts as screw locking device due to side forces
- ③ Large combi drive M4 screw
- (4) Wire size 1.5 4 mm² (AWG 12)
- for 6 mm² (AWG 10) remove screw & solder
- 5 Pull out force > 200 N @ 80 cNm
- 6 Gas tight connection

Assembly

Prepare cable as shown.



HINT:

For easy wiring especially of thick cables, first screw on the inner contacts 1+ and 2+ and afterwards the outer contacts 1- and 2- ! Use screwdriver Pozidriv #1 only.











Glass reinforced housing

NEW

Quick lock

speakON[®] FC Cable Connector Series



NL4FC

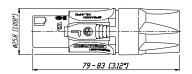
- 4 pole branded with unique hologram guarantees genuine and authentic Neutrik product
- Up to 30 A rms current rating
- Glass reinforced materials for housing and inserts
- Unique Neutrik chuck type strain relief
- Precise keyway for secure mating
- Accurate twist lock latching system
- 4 pole in new design with more ergonomic latch



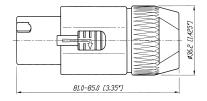
NL8FC



NL4FC



NL8FC









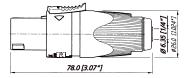
1/4" Jack adapter

Extention coupler

speakON® Adapter



NA4LJX

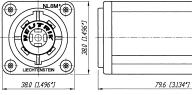


NL4MM





NL8MM





speak ON











Reinforced locking area

Nickel housing

3/16" flat tabs

Vertical PCB mount





NL2MP



NL4MD-H-1



NL4MD-H-3







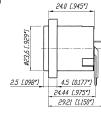
NL8MPR

- Standard version up to 30 A rms, ultra high current version up to 50 A audio current
- Glass reinforced materials
- Precise keyway for secure mating
- Accurate twist lock latching system
- Metal front plate (8 pole) or metal insert in locking area (2 & 4 pole)
- Various mounting and wiring possibilities
- "Air tight design", optimized for speaker applications
- D or G panel cutouts to be easily mounted on audio industry standard panels
- 4 pole branded with unique hologram

NL4MD-V

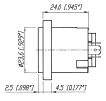


NL4MD-H



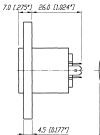


NL4MP



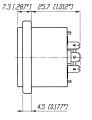


NL4MPR 7.0 1.275





NL8MPR













Locking key

PCB solder pins

speakON[®] Combo





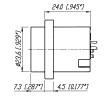
NLJ2MD-V

- D-size flange
- Compatible PCB layout and panel mount to NL4MD-V-1 (NL4MD-H)
- Cost saving combines two connectors in one housing
- \bullet Mates with all 2, 4 pole speakON* and 1/4" Phone Plugs
- PA-wiring: 1+ is connected to TIP, 1- to the SLEEVE
- PCB layout of NLJ2MD-V is compatible with NL4MD-V and PCB layout of NLJ2MD-H is compatible with NL4MD-H

Combines a speakON[®] and 1/4" Phone Jack – one for two



NLJ2MD-V

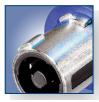




www.neutrik.com



speak O N



Reinforced locking



Latch lock



XL-solder contacts





Protected latch

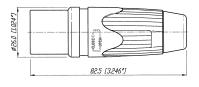
speakON[®] STX Series Cable Connectors



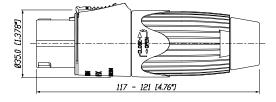
- Up to 50 A current rating
- Robust and durable all metal housing
- Sealing ring provides weatherproof IP 54 rating in mated condition on 4 pole version
- Reinforced metal quick lock system for ease and precise locking
- Extra large solder contacts for up to 6 mm² (AWG 10) wires
- Compatible with all available speakON products



NLT4MX









speakON









Robust metal housing

XL-solder contacts

1/4" flat tabs

speakON[®] STX Series Chassis Connectors





NLT4MD-V





NLT4MP-BAG

NLT8MP-BAG

• Extremely robust metal housing designed for harsh and demanding environment

- Weatherproof design features sealing gaskets
- 4 type range also male cable connector and female receptacle on 4 pole version
- All-metal housing makes the STX Series rugged and durable
- Weatherproof built-in gasket meets IP 54 protection class (4 pole)
- Ideal product for touring applications and harsh environments
- Best electrical performance up to 50 A audio current
- Uses precise "Quick Lock" system

NLT4FP

11.1 [0.436*]

40.7 [1.602*****]

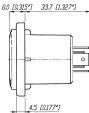
4.5 [0.1/7"]

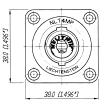
- Compatible with all currently available speakON products
- 4 pole version has UL recognized components, CSA listed

38.0 [1.496*]

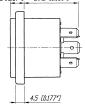
38.0 [1.496*****]

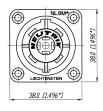


















Technical Data

		_	_	_	_	_	_
Specification		SPX Series	STX Series	speakON FC	speakON Chassis +	Adapter	STX Series
				Cable Con			Chassis
Electrical							
Number of contacts		2 + 4	4 + 8	4 + 8	2, 4, 8	2, 4, 8	4 + 8
Rated current per contact	40 A rms continuous	•	•	30 A	30 A**	15 A	•
CSA approved rating	25 A (4 pole) rms continuous	•	•	-	10 A	-	-
	50 A audiosignal, duty cycle 50%	, •	٠	40 A	40 A	30 A	٠
Combo	15 A rms continuous	-	-	-	•	-	-
Rated insulation voltage	250 V ac	•	•	•	•	٠	•
Contact resistance after lifetime		•	•	≤ 3	≤ 3	≤ 3	•
Insulation resistance after dampheat	>1 GΩ	٠	> 10 GΩ	•	•	•	> 10 GΩ
Dielectric strength	4 kV peak	•	•	•	•	•	•
1/4" Jack	1.5 kV peak	-	-	-	-	•	-
Mechanical							
Locking System	Quick lock (latch)	•	•	•	•	•	•
Life time (mating cycles)	> 5'000	٠	٠	•	٠	•	٠
Cable O.D. range (mm)	2 pole	6 - 10	-	-	-	-	-
5 . ,	4 pole	7 - 14.5	9 - 16	5 - 15	-	-	-
	8 pole	-	8 - 20	8 - 20	-	-	-
Wiring	screw type terminals	4 mm ² (AWG 12)	-	4 mm ² (AWG 12)	• (ST)	-	-
5	soldering		6 mm ² (AWG 10)	4 mm ² (AWG 12)	•	-	•
	flat tabs for 3/16" FASTON [®] (4.8 x 0.5 r	, ,	-	-	•	-	-
	flat tabs for 1/4" FASTON® (6.3 x 0.8 r		-	-	• (UC)	-	•
	PCB-version	-	-	-	• ,	_	•
Insertion / withdrawal force	Combo Jack: ≤ 20 N / > 10 N	-	-	-	•	-	-
Cable retention force	≥220 N*	•	•	•	-	-	-
Material							
Housing	Polyamide PA 6 30% GR	_	_	•	•	•	_
nousing	PBTP 20% GR	•	_	-	_	_	_
	Zinc diecast (ZnAl4Cu1)	_	•	-	_	_	•
Insert	Polyamide PA 6 30% GR	_	•	-	-	•	•
	PBTP 20% GR	•	-	•	-	-	-
Contacts	Brass (CuZn39Pb3)	•	•	•	_	_	_
contacts	Bronze (CuSn6)	-	-	-	•	•	-
	Spring copper	-	٠	-	• (UC)	-	•
Contact plating	4 μm Ag	•	•	•	•	•	•
Locking Element	Zinc diecast (ZnAl4Cu1)	٠	٠	•	-	-	• (FP)
Chuck	Polyacetal (POM)	•	•	•	-	-	-
Bushing	Polyamide (PA 6 15% GR)	٠	٠	٠	-	-	-
Environment							
Temperature range	-30 °C to +80 °C	•	•	•	•	•	•
Protection class	IP 54 (mated condition)	-	•	-	-	-	•
	IP 50 (8 pole, mated cond.)	-	•	-	-	-	•
Flammability	UL94HB IP2X/IEC 61984	•	•	•	•	•	•
Finger- Safety Approvals	UL-Recognized, CSA listed	•	• 4 pole	•	•	•	• 4 pole
Solderability	complies with IEC 68-2-20	•	4 pole ●	•	•	•	4 pole
*: subject to cable O.D. and material	complies with IEC 06-2-20	•	•		•	•	•
**: NL4MD-V-S - Rated current per contact	ct: 20A						



Ordering Information Cable Connectors

SPX Series

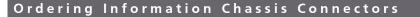
NL2FX	2 pole	Cable connector with chuck and blue bushing, intermates with 4 pole chassis connector and
		makes contact with +1/-1
NL4FX	4 pole	Cable connector with chuck and black bushing
NL4FX-2	4 pole	Cable connector with chuck and red bushing
NL4FX-4	4 pole	Cable connector with chuck and yellow bushing
NL4FX-5	4 pole	Cable connector with chuck and green bushing
NL4FX-9	4 pole	Cable connector with chuck and white bushing
NL4FRX	4 pole	Right-angle cable connector with chuck and black bushing
FC Series		
NL4FC	4 pole	Cable connector with latch lock
NL8FC	8 pole	Cable connector with latch lock
Adapters		
NA4LJX	4/2 pole	Adapter from speakON cable connector to 2 pole 1/4" Jack, wiring: +1 to TIP and -1 to SLEEVE
NL4MMX	4 pole	Lockable coupler to extend two 4 pole cables
NL8MM-BAG	8 pole	Coupler to extend two 8-pole cables, black-chrome metal housing, chuck and bushing
STX Series		
NLT4FX	4 pole	Female cable connector, nickel metal housing, chuck and bushing

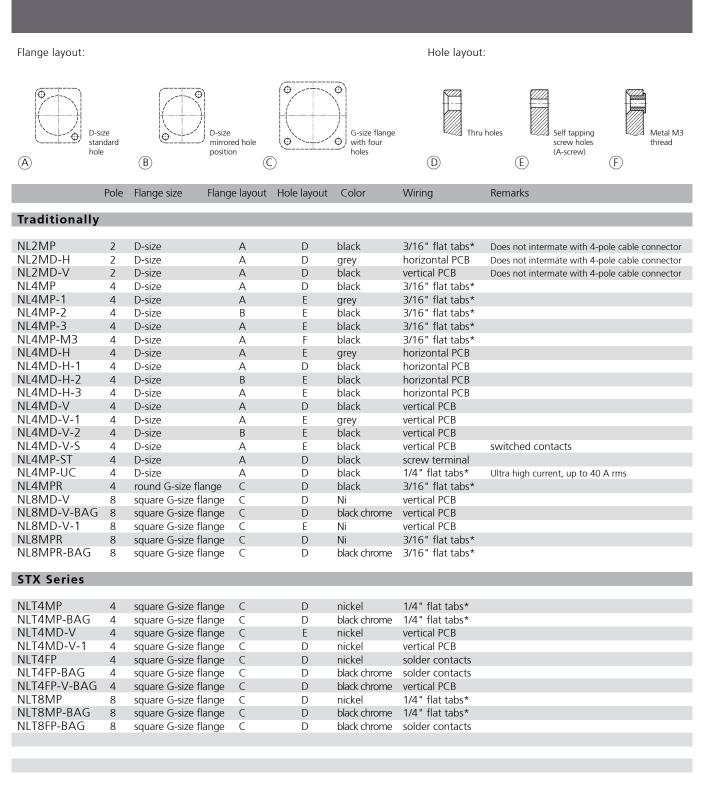
NL14FX	4 pole	Female cable connector, nickel metal nousing, chuck and busning
NLT4FX-BAG	4 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT4MX	4 pole	Male cable connector, nickel metal housing, chuck and bushing
NLT4MX-BAG	4 pole	Male cable connector, black-chrome metal housing, chuck and bushing
NLT8FX	8 pole	Female cable connector, nickel metal housing, chuck and bushing
NLT8FX-BAG	8 pole	Female cable connector, black-chrome metal housing, chuck and bushing
NLT8MX-BAG	8 pole	Male cable connector, black-chrome metal housing, chuck and bushing

Accessories



Colored coding rings for the right-angle version of the SPX Series.				
Available in blue (Standard), white, red, green and yellow.				
Right-angle speakON conversion kit for changing the straight connector into a right-angel version without				
removing the cable from the insert.				
Strain relief reduction ring for NL4FX for thin loudspeaker cables with an O.D. of 5 to 8 mm				
Colored bushing for NL4FC				
Weather resistant dripboot				
*: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White; Must be ordered in multiples of 100.				





*: flat tabs to be used with FASTON® connectors or to solder the wire (FASTON® is a trademark of AMP Inc.)



Ordering Information Chassis Connectors

	Pole	Flange size	Flange layout	Hole layout	Color	Wiring	Remarks
Combo Serie	es						
NLJ2MD-V	2	D-size	А	E	green	vertical PCB	
NLJ2MD-V-1 NLJ2MD-H	2 2	D-size D-size	A A	E	grey green	vertical PCB horizontal PCB	

Accessories



NDL	dummyPLUG for Z & 4 Pole chassis connector	
NZP1RU-8	Panel 1RU housing with 8 D-shape cutouts	
NZP1RU-12	Panel 1RU housing with 12 D-shape cutouts	

NZI INO-IZ	raher mo housing with 12 D-shape cutouts
SCL	Plastic sealing cover to protect the connectors against dust and moisture
SCDR	Rear end protection cover for D-size chassis connectors
SCDP-*	D-Size sealing gaskets, color coding
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover to seals for D-size chassis Connectors, IP 65 rated
SCNLT	Gasket for NLT4MP
	(To make a cabinet with an Amphenol EP cutout airtight, use the rubber sealing which covers the entire hole.)

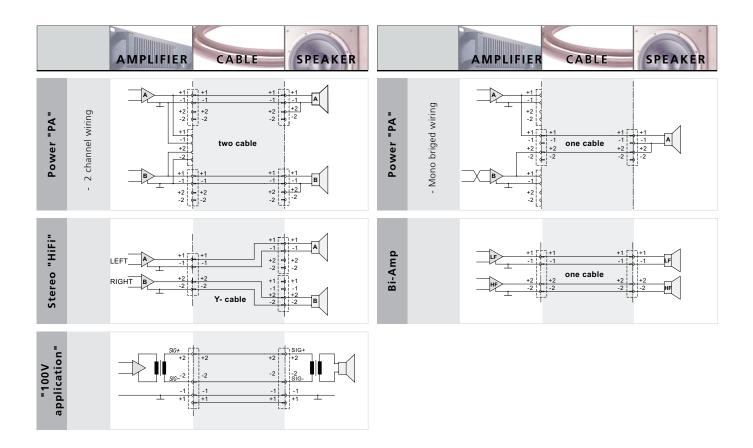
(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)



Wiring Suggestion

Positive signal on speaker pin "+" produces positive waveform from driver (moves cone outwards) "+" = In phase (high) "-" = Ground (out of phase, low) Lower numbers for lower frequencies.

	AMPLIFIER	CABLE	SPEAKER	
Stereo ("HiFi")	one NL4MP socket left channel pins 1+/1- right channel pins 2+/2-	NL4FC on amplifier end, four conductor cable splits into two pairs with NL4FX on each end	one NL4MP per speaker left speaker pins 1+/1- right speaker pins 2+/2-	
POWER ("PA") Standard	three NL4MP sockets "A" socket: left channel pins 1+/1- "B" socket: right channel pins 1+/1-	a two-conductor cable for each channel with NL4FX on both ends		
Bridged mono	"M" socket: left channel pins 1+/1- right channel pins 2+/2-	a special two-conductor cable, on both ends wired to pin 1+/2+ of NL4FX	NL4MP pin 1+ to speaker coil "+" NL4MP pins 1- and 2+ to speaker coil "-"	
Bi-Amp	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-	a four-conductor cable on both ends wired to pins 1+/1-, 2+/2- of NL4FX	one NL4MP socket low frequency pins 1+/1- high frequency pins 2+/2-	
4 Way System	one NL8MPR socket low frequency pins 1+/1- low mid frequency pins 2+/2- high mid frequency pins 3+/3- high frequency pins 4+/4-	an eight-conductor cable wired on both ends to pins 1+/1-, 2+/2-, 3+/3-, 4+/4- of NL8FC	one NL8MPR socket low frequency pins 1+/1- low mid frequency pins 2+/2- high mid frequency pins 3+/3- high frequency pins 4+/4-	







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Introduction

Neutrik's continuously growing range of data connectors copes with the increasing and versatile demand of digital connections in the professional audio, broadcast and entertainment industry. Networking and computerized controls have to be equipped with reliable and rugged interconnection systems, since conventional data connectors can not meet the demanding requirements of live / rental or broadcast applications. Neutrik early understood this trend and realized a range of ruggedized connection systems based on standard digital interconnections as well as Digital Interfaces HDMI, USB and Firewire to suit the high demands of professional users in the entertainment industry.

NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.

Fiber Optic

A few years ago, fiber optic cables were used for specific applications only. With the transition to HD-signals and the upcoming 4K / 8K technology the need for fiber optics has increased significantly. Today, fiber optic cables are widely-used for various applications in the fields of professional broadcast, pro audio and touring/rental industries.

- Digital HD video transmissions > 15m (e.g. DVI, HDMI or KVM projection) using fiber optic media converters
- Increased bandwidth, especially for professional broadcast applications
- Efficient handling due to smaller and lighter cables
- Minimized cabling by embedding multiple data signals in single cables
- Future-proof installations designed to eliminate distance limitations, noise and EMI protection on audio or video (LED walls) applications

With the increased use of fiber optics for pro audio and broadcast new connections had to be developed. Conventional data-communication connectors (ST, SC, LC, etc.) are optimized for permanent, one-time connections and cannot cope with the harsh and demanding environment occurring in the entertainment business.

Neutrik solved the various problems associated with mobile fiber optic connectivity by launching the opticalCON series in 2005.

The simple and rugged design of opticalCON provides low fiber maintenance, high mating cycles and easy handling. Well known professional equipment manufacturers as well as key users in the pro broadcast and touring industry trust in the opticalCON system for years. It's Neutrik's goal to turn opticalCON into an industry standard comparable to the widely used etherCON series.

Design Criteria

Neutrik solved the various problems associated with mobile fiber optic connectivity with the launch of the opticalCON DUO fiber optic connection system in 2005.

opticalCON's reliable and simple concept, with ruggedness and low maintenance at its core, has gained wide acceptance in the pro audio and broadcast industries. Well-known professional equipment manufacturers as well as key users in broadcast and rental/ touring trust in opticalCON for years. It is Neutrik goal to turn opticalCON into an industry standard comparable to the widely used etherCON series.

opticalCON **DUO** is most typically used for equipment connections, including various audio, lighting, and video applications. Typical uses include audio and DMX networks (ring switch), video projection based on fiber optic DVI, HDMI, or KVM signal converters, mobile LED panels, and various broadcast applications.

Following on the success of opticalCON DUO, the newer **optical**CON **QUAD** series doubles the fiber count to four per cable and is designed with point-to-point connections in mind. opticalCON QUAD has been successfully deployed in such applications as data routing for big and, especially, OB outdoor broadcast applications.

The **optical**CON **MTP**[®] increases the numbers of fibers in one connector to 12 and is the ideal solution for multi-fiber point-to-point applications as often required for broadcast applications.

Alternatively SPLIT cables, assembled with opticalCON DUO or QUAD, support a connector standardization and offers advantages with regard to field assembly and repair costs.

With the brand new **optical**CON **LITE**, a cost effective lightweight connector based on LC based ferules. Neutrik offers a high performance fiber connection system for permanent and temporary installations like server rooms, patch fields and indoor cabling.





opticalCON ADVANCED

- MOBILE USE
- RUGGED
- LOW MAINTENANCE
- SIMPLE INTEGRATION





Ratched lock bushing

Ergonomic anti-kink boot for various cable O.D.s

88





opticalCON DUO





Rugged metal housing

Cable drum



Rubber coated protection cover

Rear LC connection



Chassis with transceiver adapter



Sealing shutters

Cable Connector Assembly



NKO2S-A*

- Ruggedized and dirt-protected 2-channel fiber optic connection system
- Waterproof acc. to IP 65 in mated condition
- Color-coded cable connector comes pre-assembled with a choice of mobile field cables
- Accommodates standard optical LC-Duplex connectors
- Dust and dirt protection due to automatic sealing shutter with silicone gasket
- Reliable Push-Pull locking mechanism
- Easy to clean, no tools required
- Field repairable
- Hybrid assembly available





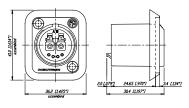
NO2-4FDW-A with SCDP-0

- Suggested OEM equipment connectors due to LC front compatibility
- Accommodates standard LC connectors on the rear for simple installation
- Automatic shutter with silcone gasket protects optical connection from dust and dirt
- Waterproof acc. to IP 65 ingress protection in mated condition
- Connection on the front side either with rugged opticalCON or standard LC connector
- Compatible with opticalCON ADVANCED, LITE or standard LC connector

NKO2*



NO2-4FDW-A





Chassis Connector





Colour Coding

Sealed and rugged housing





Chassis Connector



Sealing shutter

Sealed housing

Rear LC connection

Cable Connector Assembly



NKO4S-A*

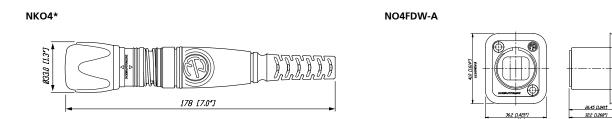
- Ruggedized and dirt protected 4 channel fiber optic connection system
- Designed for POINT-TO-POINT multichannel routing
- Innovative shutter guarantees low maintenance
- Dust and water resistant according to IP 65 in mated condition
- Color-coded cable connector comes pre-assembled with a choice of mobile field cables
- Field repairable





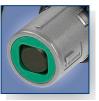
NO4FDW-A with SCDP-0

- Rugged 4 channel POINT-TO-POINT multi-channel routing solution
- Laser protective metal shutter seals dust proof with twocomponent rubber gasket
- Waterproof acc. IP 65 in mated condition
- Accommodates standard LC connectors on the rear for cost effective and simple installations
- Compatible with opticalCON ADWANCED, or LITE connector









Rugged metal housing

Spherical shutter



Rubber sealing gasket



Rear MTP[®] connection

Chassis Connector



- NKO12S*
- Ruggedized and dirt-protected 12-channel fiber optic connection system
- For POINT-TO-POINT multichannel routing based on MTP[®] technology
- Cable connector features rugged all-metal housing and heavy-duty cable retention
- Innovative shutter guarantees low maintenance
- Dust and water resistant according to IP 65 in mated condition
- Enhanced maintenance
- Reliable Push-Pull locking mechanism





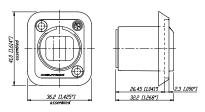
NO12FDW-A with SCDP-0

- Ruggedized and dirt-protected 12-channel fiber optic connection system
- For POINT-TO-POINT multichannel routing
- Laser protective metal shutter seals dust-proof with twocomponent rubber gasket
- Dust and water resistant according to IP 65 in mated condition
- Accommodates standard MTP[®] connectors on the rear for simple installation
- Rubber sealing gasket (black, blue, green to identify fiber mode)
- Compatible with opticalCON ADVANCED, or LITE connector

NKO12*



NO12FDW-A









Color coding

DUO, QUAD & MTP® Couplers

Breakout Boxes & Coupler



- Breakout boxes are used to split multichannel connections like the opticalCON QUAD and MTP[®] to either dual or single channels
- Dust and waterproof according to IP 65 in mated condition
- Weather proof opticalCON DUO, QUAD and MTP® coupler (adapter) for cable extensions



Frame with opticalCON



Individual frame application

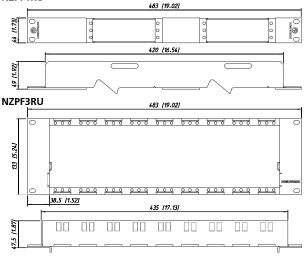
19" Z-Panel & Plates



NZPF3RU equipped with frame plates

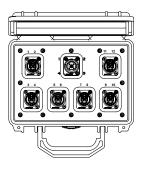
- Space saving design, ideal for cramped rack applications such as OB truck I/O panels
- Frame plate can be loaded with opticalCON DUO or QUAD and E2000, or ST or SC
- Frames can be equipped with frame plates (D-shape) or blind plates
- Best cable bend protection
- 1 RU or 3 RU frame

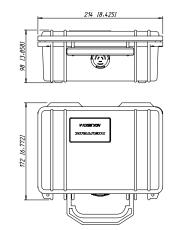
NZPF1RU



ind more details in the opticalCON Guide and on www.neutrik.com

NO12SABB6D-A







opticalCON







3RU frame with up to 9 powerMONITORs



1RU rack mount



Robust rear connection

powerMONITOR



NO4S-4F-2R-PM

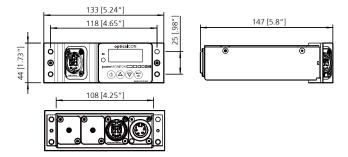
The opticalCON powerMONITOR is a cost-saving, purposebuilt measurement (monitoring) device for professional fiber optic broadcast, audio and video applications.

With simultaneous monitoring of attenuation for up to 4 transmission channels, powerMONITOR provides an immediate, "on air" view into fiber optic signal strength. Visual and audible alarms can be set individually for each fiber channel, based on each channel's power budget. powerMONITOR provides clear status information, delivers early warnings for potential problems, and assists with maintenance scheduling.



- On-air monitoring of fiber optic transmission quality
- Simultaneous power measurement (+0.0 / -0.1 dB measurement accuracy) of up to 4 channels
- Programmable threshold alarms
- Rack mount and mobile units
- Operates on rechargeable battery power or on mains power with fail-safe battery backup in case of unexpected mains power interruption
- Low loss (0.5 dB maximum split loss)
- Wavelength selectable: multimode 850 nm or 1'300 nm, single mode 1'310 nm, 1'550 nm or WDM (wave division multiplexing)
- External output for alarm signal

NO4S-4F-2R-PM-A





opticalCON



19" x 1 1/2 RU Rack

unit



Ergonomic panel



Wieland rear

connection



Coupler NAO4MW-A



Breakout Cable



opticalCON Field assembly

Accessories & opticamSWITCH



opticamSWITCH

The opticamSWITCH is the ultimate solution for fiber optic

camera routing within broadcast studios. The device allows

switching of unlimited camera positions between several stu-

dios and control rooms, eliminating the need for high-main-

tenance, risky matrix patch fields using SMPTE patch cables.

CAS-FOCD-ADV CAS-FOMD

NAOBO

Rugged couplers to extend two opticalCONs

- Breakout cables
- NAOBO Kit for flexible chassis mounting solution
- Assembly Tools:
 - Case for opticalCON field assembly
 - Fiber Optic Cleaning Devices (CAS-FOCD-ADV)
- Transceiver adapter connects opticalCON chassis and multi / singlemode transceivers
- Color coding
- Sealing covers

The device works on trendsetting, silica-based PLC (planar lightwave circuits) equipped with TO (thermo optic) switches. The innovative design guarantees rugged and safe non-blocking fiber plus camera power switching without any moving parts. The LAN-based remote control software simplifies work, shows switching and camera status, and enables broadcast production automation.

- Thermo Optic PLC Switch
- Non Blocking Structure
- Intelligent Power Working Circuit
- LAN Remote Control



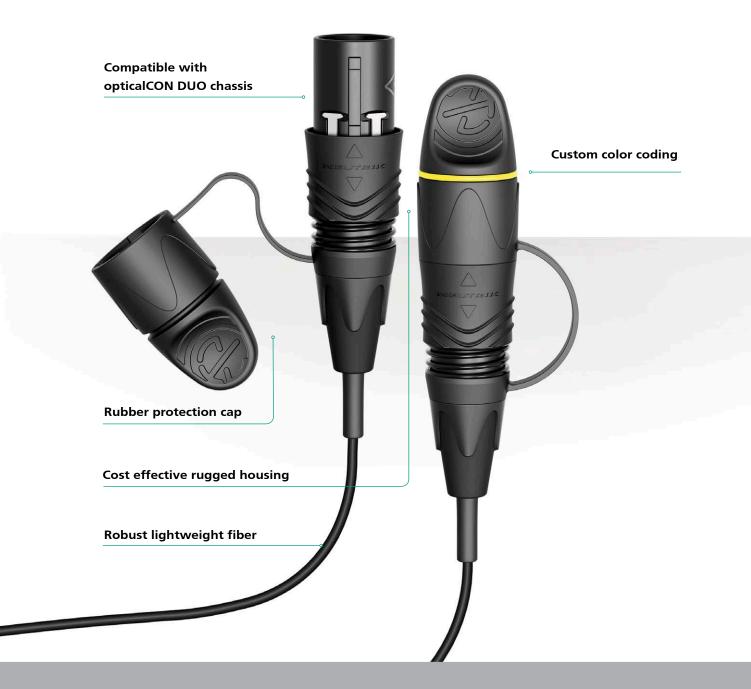


opticalCON LITE



- SMALL FORM FACTOR
- TACTICAL PATCH CABLE
- SAFE CONNECTION
- COST EFFECTIVE







LITE

opticalCON DUO LITE



opticalCON QUAD LITE



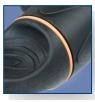
opticalCON MTP[®] LITE





opticalCON

















Color-coded cable connector

Push-pull locking

Custom color Coding

Color-coded cable connector

opticalCON DUO LITE

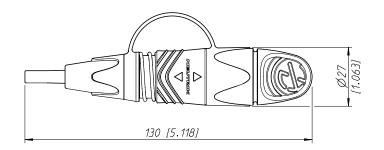


- 2-channel fiber optic connection system
- Cost optimized fiber connection for semi and permanent installations
- Waterproof acc. to IP65 safety standard in mated condition
- Space saving design
- Push-Pull locking mechanism for save connection
- Easy to clean, no special tools required
- Compatible with standard opticalCON DUO chassis NO2-4FDW-A*



- 4-channel fiber optic connection system
- Waterproof acc. to IP65 safety standard in mated condition
- Push-pull locking mechanism
- Recommended for POINT-TO-POINT connection
- Easy to clean, no special tools required
- Tactical patch cable
- Compatibel with standard opticalCON ADVANCED NO4FDW-A chassis







LITE



12-channel MTP®





Color-coded cable connector

opticalCON MTP[®] LITE



- 12-channel MTP[®] based fibre optic connection system
- Waterproof acc. to IP65 safety standard in mated condition
- Recommended for multi-signal transmission
- Push-pull locking mechanism
- Custom color coding
- Rugged plastic housing
- Rubber protection cap

Tactical Patch Cable

Conventional patch cables are sensitive in terms of undercutting the minimum bending radius and lateral pressure. Neutrik's tactical patch cables contain a unique fiber design including a polymeric coating which allows bendings with minimal radius and increased lateral pressure. Therefore the tactical patch cables are the right choice for permanent or semi-permanent applications.







etherCON

Ruggedized RJ45 Data Connector

etherCON provides solutions for data transfer in harsh and demanding applications. These connectors are especially applicable for Ethernet networking in audio, commercial, entertainment, live stage production, DMX lighting, industrial and outdoor internet access environments.

The etherCON series offers tailor-made products to suit all state-of-the art transmission classes like CAT6A, CAT6, CAT5e as well as class D according to TIA / EIA 568C.2 and ISO / EC 11801 respectively EN 50173-1 standard. The broadly based product range includes male cable carriers, assembled female receptacles, feedthrough jacks, cable couplers and shielded versions with or without illumination possibilities by LEDs. For pre-assembled RJ45 cables Neutrik offers a rugged diecast metal shell as a male cable carrier, which does not require the re-termination of the cable assembly.

Female chassis receptacles are based on the well known Neutrik "A & B" series as well the "D" series of XLR receptacles with either secure latching system or push pull locking (CAT6) – features not found on other RJ45 receptacles. Terminations available do include horizontal and vertical PCB mount or IDC. Ingress protection of IP 54 is achived on the CAT 5 version by assembling the waterproof sealing kit SE8FD while CAT 6 versions are IP 65 rated as standard and at the new CAT6_A range it is customers choice to use the IP 65 protected receptacles or the unprotected versions.

100

etherCON CAT6A



Rugged diecast shell



Feedthrough



IDC Version



IP Protected

etherCON CAT6A Series





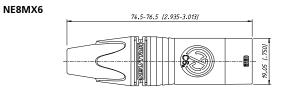
NE8FDX-P6



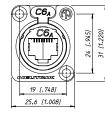
NE8FDX-Y6-W

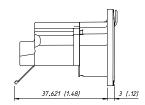
etherCON CAT5e / A / B & D type

- Ruggedized connector range with CAT6_A component compliance according to ISO / IEC 11801 respectively EN50173-1 and CAT6A according to TIA / EIA 568-C.2
- D-size chassis connector for IDC self-termination or as feedthrough adapter
- IP 65 protected version available
- PoE+ compliant according to 802.3at Type2
- Downwards compatible with the existing etherCON CAT5 range



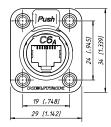
NE8FDX-Y6



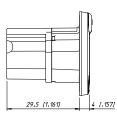


NE8FDX-P6-W

etherCON CAT6A



etherCON CAT6A





etherCON NE8MC*

CAT6A / CAT5* compatibility:



etherCONCAT6A

Tec	hn	ica	I D	ata
		i c u		utu

Technical Data						
		Receptacle	Cable connector			
Electrical						
Number of contacts	8	•	•			
Rated current per contact	- 1.5 A	•	•			
TIA / EIA rating	CAT6A	•	•			
IEC / ISO / EN rating	CAT6 _A	•	•			
Input to output resistance	< 200 mΩ	-	-			
Insulation resistance	> 500 MΩ	•	•			
Dielectric strength	1 kV dc	•	•			
PoE + acc. IEEE 802.3at		•	•			
Materials						
Housing	Zinc diecast	•	•			
Adapter	Polyamide PA 6	-	-			
Strain relief clamp	POM	<u> </u>	•			
Contacts	Bronze CuSn		-			
	Spring steel	•	•			
Contact surface	Gold	•	•			
Bushing	PU / PA	-	•			
Mechanical						
Retention method		Latch Lock				
Life time (mating cycles)		> 1`000				
Cable O.D. range	7.0 - 9.5 mm					
Wire size (solid)	0.128 – 0.324 mm² (AWG 26/1 - AWG 22/1)					
Stranded wire	0.111 – 0.355 mm² (AWG 27/7 - AWG 22/7)					
Environmental						
Operating temperature		-40 °C to +70 °C				
Storage temperature	-40 °C to +70 °C					
Flammability	-40 C (0 +70 C UL94V-0					
Protection class	IP 65 in combination with "-W" receptacle					
Ordering Informa	tion					
Cable Connector						
NE8MX6	etherCON cable conne	ector Cat6A, nickel plating				
NE8MX6-B	etherCON cable conne	ector Cat6A, black plating				
Receptacle						
NE8FDX-P6	etherCON chassis C6A	shielded feedthrough, nickel plating				
NE8FDX-P6-B	etherCON chassis C6A shielded feedthrough, black plating					
NE8FDX-Y6	etherCON chassis C6A shielded IDC, nickel plating					
NE8FDX-Y6-B	etherCON chassis C6A shielded IDC, black plating					
NE8FDX-P6-W	etherCON chassis C6A shielded feedthrough, with rubber sealing, IP65					
NE8FDX-Y6-W	etherCON chassis C6A shielded IDC, with rubber sealing, IP65					

etherCON CAT5e











IDC Terminals

Horizontal PCB

Vertical PCB with lightpipes

D shape metal shell

PCB Version

etherCON CAT5e A/B & D type Receptacle





NE8FAH-C5



NE8FBH-C5-LED



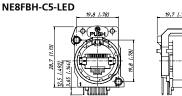
NE8FBV-C5-LED-S



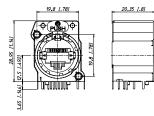
NE8FDV-Y110-B

NE8FDH-C5E

- Space saving A or B type receptacles horizontal or vertical PCB design available
- Vertical PCB design at 24 mm distance to front panel fits the widely accepted industry standard dimensions for XLRs, 1/4" jacks etc.
- PoE+ compliant according to 802.3at Type2
- CAT5e performance according to ISO / IEC 11801 and TIA / EIA 568-C.2
- Shielded or non-shielded versions available
- Two types of light pipes available to accommodate through hole LEDs or SMD-LEDs
- Accommodates rugged etherCON NE8MC* cable carriers or any standard RJ45 plug
- D type receptacles horizontal PCB or punch terminal (Krone or 110) design available



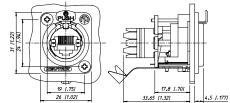
NE8FBV-C5-LED-S



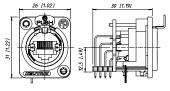


2.7 [.106]





NE8FDH-C5E







horizontal or vert

etherCON



Horizontal PCB



• "A / B" and "D" sized receptacles available in vertical and

• Accommodates NE8MC carriers or any standard RJ45 Plug

• D-versions with unified metal flange equal to "D" series-

XLR, speakON, powerCON and BNC Bulkhead



Vertical PCB

NE8FDV-SE - Vertical PCB receptacle combined with waterproof kit

etherCON - Receptacles



NE8FAV + ACRF-2

horizontal PCB or IDC terminations



NE8FBH



NE8FDV



NE8FDV-SE

- Receptacles comply with Class D (PCB versions) or CAT 5e (IDC versions and NE8FDH-C5E) according to TIA / EIA 568B and ISO / IEC 11801 standard
- Version with screw domes to fix connector onto PCB securely (NE8FAV-SD)

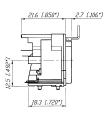
NE8FAV



NE8FAV-SD

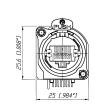


21.6 [.850*] 2.7 [.106*]



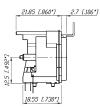
18.3 [.720°]

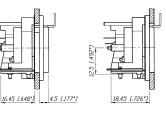
NE8FBH



NE8FDV









etherCON





Completely closed housing

Light pipe







NE8FDP-R rear side

Locking latch

Rugged aluminium extrusion housing

Shielded & Lighted





NE8FBH-S

NE8FBH-LED

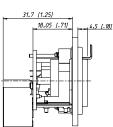
- Comprehensive shielding granted by completely closed metal housing
- Improves EMC performance of appliance even in unmated condition
- Light pipes illuminated by standard 3 mm LEDs to be mounted on PCB by customer
- Receptacles comply with class D Link performance.



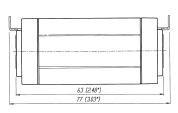


- Feedthrough as panel mount receptacle and as cable coupler
- NE8FDP feedthrough connector in D series housing for use in patchfields – rear side accommodates standard RJ45 plug.
- New: Right angle version available (NE8FDP-R).
- NE8FF coupler (adapter) for cable to cable mating use with NE8MC carriers or any standard RJ45 plugs

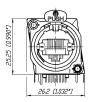




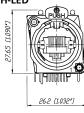


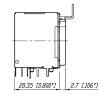


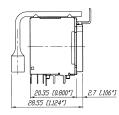
NE8FBH-S











Feedthrough





NE8FDP-R





Rugged diecast shell

Colored coding Bushing

etherCON – Cable Carriers

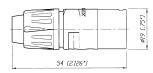


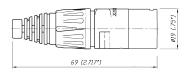




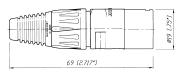
- The RJ45 system for harsh and demanding environment
- Cable connector carrier accepts the most common RJ45 plugs
- Cable connector carrier has rugged diecast shell and unique chuck type strain relief
- NE8MC-1 version with weatherproof Chromium plating and O-ring gasket
- Protects Ethernet connections in a variety of commercial type applications and is designed to prevent breakage of the fragile components of standard RJ45 connectors
- Cable connector carrier does not include RJ45 plug

NE8MC





NE8MC-1





Technical Data

Specification		NE8MC* Cable Con.	NE8FA/B* (A + B Series)	NE8FD* (D Series)
Electrical				
Number of contacts	8	_ 1)	•	•
Rated current per contact	< 1.5 A	_ 1)	•	•
Rated voltage	< 50 V ac	_ 1)	•	•
Contact resistance	< 10 mΩ	_ 1)	•	•
nsulation resistance	> 500 MΩ	_ 1)	•	•
Dielectric strength	> 1`000 V ac rms	_ 1)	•	•
Frequency bandwidth	1 - 100 MHz	_ 1)	•	•
Transmission class acc. TIA / EIA	568B or IEC 11801 - CAT 5e	_ 1)	NE8*-C5* / NE8FA*-Y*	NE8FD*-C5e / NE8FD*-'
	Class D	- ¹⁾	•	٠
PoE + acc. IEEE 802.3at		_ 1)	•	•
Mechanical				
Retention method	latch lock	•	•	•
Life time (mating cycles)	> 1`000 mating cycles	•	•	•
Life time (mating cycles)	> 200 mating cycles	-	-	SE8FD
Insertion / withdrawal force	≤ 20 N	•	•	JLOI D
Cable O.D. range	3.5 - 8 mm	•		•
Wire size	AWG 26 – 20	_ 1)	- NE8*-Y*	- NF8*-Y*
Panel thickness	max. 3 mm / 0.12"	- '	NLO -1	4 mm / 0.16"
	max. 5 mm7 0.12		-	+11117 0.10
Material				
Housing	PBT D202G30	-	•	•
	Zinc diecast (ZnAlCu1, gal Ni / bl Cr / Chro	mium) 🛛 🔍	-	-
B / D-flange	Zinc diecast (ZnAICu1, gal Ni / bl Cr)	-	•	•
Strain relief clamp	POM	•	-	-
	CuZn35Pb2, Tin plated	-	NE8*-Y*	NE8*-Y*
Contacts	Bronze (CuSn8)	_ 1)	•	•
	Spring steel	NE8*C5*	•	•
Contact surface	Au (gal 0.2 µm over Ni plating)	_ 1)	•	•
Locking Element	Ck 67 steel, treated	-	•	•
Bushing	Polyamide (PA 6 15% GR)	•	-	-
Boot	Polyamide (PA 6)	•	-	-
Sealing gasket	EPDM	-	-	SE8FD
Environment				
Operating Temperature	-30 °C to +80 °C	•	•	•
operating reinperature	-20 °C to +60 °C		•	SE8FD
Protection class	IP 54	-	-	SE8FD SE8FD
Flammability	UL94V-0	- UL94 HB		JLOFU
Solderability complies with	IEC 68-2-20			PCB Version
Mating screw	IEC 00-2-20	-	PCB Version	E screw
Color coding		- BSE-* / BSX-*	A screw ACRF-*	DSS-*
		D3E/ D3V	ACKF-"	032-"

¹⁾: Specs depend on type of RJ45 plugs used



Ordering Information

Ordering Inf						Remarks		
	Shape	Shape Termination						
	A B [D H V	IDC ID	C110 LED	S			
CAT 5e Receptac	le							
NE8FAH-C5	•	•						
NE8FAV-C5	•	•						
NE8FAV-YK*	•	-						
NE8FAV-Y110*			•	•				
NE8FBH-C5		•		•				
NE8FBH-C5-S	•	•			•			
NE8FBH-C5-LED		•		•	•	through hole LED		
	•	•		•				
NE8FBH-C5-LED1	•	•		•	-	SMD LED		
NE8FBH-C5-LED-S	•	•		•	•	through hole LED		
NE8FBH-C5-LED1-S	•	•		•	•	SMD LED		
NE8FBV-C5	•	•						
NE8FBV-C5-S	•	•			•			
NE8FBV-C5-LED	•	•		•		through hole LED		
NE8FBV-C5-LED1	•	•		•		SMD LED		
NE8FBV-C5-LED-S	•	•		•	•	through hole LED		
NE8FBV-C5-LED1-S	•	•		•	•	SMD LED		
NE8FDH-C5e		• •						
NE8FDH-C5e-SE		• •				with sealing kit SE8FD		
NE8FDV-YK*		•	•					
NE8FDV-Y110*		•		•				
NE8FDP**		•				feedthrough		
NE8FDP-SE		•				with sealing kit SE8FD		
NE8FDP-R*		•				right angle port, feedthrough		
NE8FDP-R-B*		•				right angle port, feedt., black platir		
NE8FF		•				coupler, black plating		
CLASS D Recepta	cle							
NE8FAH	•	•						
NE8FAV	•	•						
NE8FAV-SD*	•	•				Screw dome		
NE8FBH	•	•						
NE8FBV	•	•						
NE8FDV		• •						
NE8FDV-SE		• •				with sealing kit SE8FD		
Cable Carriers								
NE8MC	Cable housing with c	chuck and bushing (tw	o antikink boo	ots, one up to §	5 mm and	l one up to 8 mm cable O.D.)		
	(standard bushing in	black, 9 different cod	ng colours on	request)				
NE8MC-B	Black chromium housing with chuck and bushing (two antikink boots, one for 5 mm and one for 8 mm cable O.D.) (standard bushing in black, 9 different coding colours on request)							
NE8MC-1		Cable housing with chuck and X-series bushing, Collinox plating and O-ring gasket						
	(perfect for waterproof applications, standard bushing in black, 9 different coding colours on request) Black chromium housing with chuck and X-series bushing							
NE8MC-B-1	(standard bushing in black, 9 different coding colours on request)							
						ad has an el sus en l		
MPORTANT:	Cable connectors do	not include RJ45 plug	. KJ45 Cable a	ssemply must b	e provide	ea by ena-user!		
NFORMATION:	A A-shape re	eceptacle (all plastic)		IDC ID	C termina	als		

 NFORMATION:
 A
 A-shape receptacle (all plastic)
 IDC
 IDC terminals

 B
 B-shape receptacle (Nickel ring)
 IDC 110 ...
 IDC 110 punch down terminals

 D
 D-shape receptacle
 LED
 Light pipe

 H
 Horizontal PCB mount
 S
 shielded metal housing

 V
 Vertical PCB mount
 *
 Including 2 mounting screws

-				
Δ	CO	SC	n	ies
~	C C		U 1	103

als.	States	See Charles		
A screw	E screw	E screw Nickel		
ACRF-*	DSS-*	BSE-*	BSX-*	SCDP-*
SCDX	NEW SCCD-W			
A-Screw	Mounting screw for A	/ B -shape (black self-tapp	ing PLASTITE® screw 2.9	x 8, panhead)
E-Screw	5	-shape (black self-tapping		-
E-Screw-Ni	-	-shape (Nickel self-tapping		2, countersunk)
ACRF-*	5 5	r A-shape receptacles (Box o	1 1	
BSE-*		e connector carrier (Box of		
BSX-*		BMC-1 and NE8MC-B-1 cable	connectors	
DSS-*	Lettering plate for D s			
NZP1RU	Panel1RU D-shape ho	5		
SCDP-*		, color coding (*: 0- black, 2		- blue, 9- white)
SCDX	5	size chassis connectors, IP 4		
SCCD-W	Spring-loaded cover t	o seals for D-size chassis co	nnectors, IP 65 rated	
* O Plack 1 Prove	n 2 - Red 3 - Orange 4 - Yellow	E Green & Dive 7 Vielet 9 Gr	and O Maite	

*: 0 - Black, 1 - Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White

Waterproof kit for etherCON D-Series



Waterproof assembly kit - SE8FD

SE8FD

Waterproof kit, IP 54, consists of push, gasket, frontplate Suitable for all NE8FD*, perfect in combination with NE8MC-1 (with Chromium plating and sealing gasket)





CAT6



Push Pull locking



IP65 in mated condition





D-shape metal shell

Closed shielding



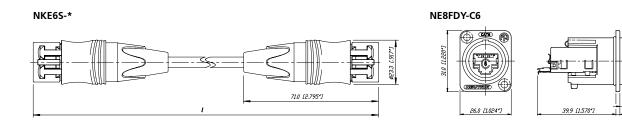


NE8FDY-C6

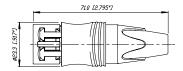
NE8FDY-C6-B

[.106 *] [.079*]

- CAT6 compliant according to ISO / IEC 11801, TIA / EIA 568C.2, EN50173-1
- Dust and water resistant according IP 65 in mated condition
- Push Pull mating design provides secure locking system
- Shielded system high noise immunity and EMI protection
- IDC contacts for tool-free assembly offer gas-tight termination
- Ready made patch cables or cable connector for self termination with rugged diecast cable carrier and unique chuck-type strain relief



NE8MC6-MO





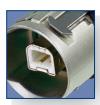
C A T 6

Technical Data			
	_	Receptacle	Patch Cable
Electrical			
Number of contacts	8	•	•
Rated current per contact	1.5 A	•	•
TIA / EIA rating	CAT6	•	•
IEC / ISO / EN rating	CAT6A	-	-
Input to output resistance	< 200 mΩ	•	•
Insulation resistance	> 500 MΩ	•	•
Dielectric strength	1 kV dc	•	•
PoE + acc. IEEE 802.3at		-	-
Materials			
Housing	Zinc diecast	•	•
Adapter	Polyamide PA 6	•	•
Strain relief clamp	POM	-	•
Contacts	Bronze CuSn	•	•
	Spring steel	-	-
Contact surface	Gold	•	•
Bushing	PU / PA	-	•
Mechanical			
Retention method	Push-Pull	•	
Life time (mating cycles)	> 1`000	•	
Cable O.D. range		5.5 - 6.5 mm	
Wire size (solid)		0.205 - 0.324 mm ² (AWG 24 - AWG 22)	
Stranded wire		0.141 - 0.355 mm² (AWG 26 / 7 - 22 / 7)	
Solid wire			
Environmental			
Operating temperature		-10 °C to +60 °C	
Storage temperature		-40 °C to +70 °C	
Flammability		UL94HB	
Protection class		IP 65	
Ordoring Inf orma	tion CATE		
Ordering Informa	tion CAI6		

Cable Connector NE8MC6-MO RJ45 cable plug with carrier offering a robust metal shell with Push-Pull locking system **Patch Cable** NKE6S-* Standard lengths: 0.5, 1, 2, 3, 5, 10, 30 m Equipped on one side with metal shell, standard lengths: 1, 2, 3, 5, 10, 30 m NKE6S-*-WOC Custom length in meter steps on request Receptacle NE8FDY-C6 CAT6 with Nickel D-shell NE8FDY-C6-B CAT6 with Black Chrome D-shell Accessories see page 109 / 114 / 118







Push Pull locking

USB type B

USB Patch Cable

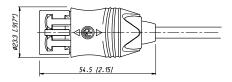




NKUSB-*

- USB 2.0 compliant data rate up to 480 MBit/s
- Dust and water resistant sealing in combination with NAUSB-W*
- Push Pull mating design provides secure locking system if mated with NAUSB-W*
- Shielded connection high noise immunity and EMI protection
- Ready made patch cables (1 m, 3 m and 5 m) with removable rugged diecast cable carrier
- Mates with conventional USB receptacles if cable carrier is removed

NKUSB









D-shape metal housing

USB type B





USB 3.0 Type B

Rugged housing

USB 3.0 Receptacle

USB 2.0 Receptacle





NAUSB-W

NAUSB-W-B

- USB 2.0 gender changer type A-B (B-A)
- Ideal for audio networking and integration of computerbased equipment into audio systems
- Lockable connection and water protection if mated with Neutrik USB cable NKUSB-*
- Optional screen to chassis grounding
- Reversible insert offering type A or B on front or rear end
- Universally accepted standard D-shape housing

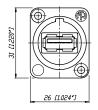


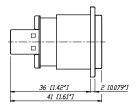


NAUSB3-B

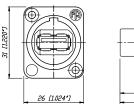
- Rugged USB 3.0 feedthrough adapter
- Standardized D-shape housing
- Reversible insert offering type A or B on front or rear end
- Optional screen to chassis grounding
- Nickel and black chrome plating available

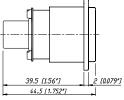
NAUSB-W





NAUSB3





Technical Data

Mechanical an	d Electrical	Receptacle	Patch Cable
Conform with USB 2.0 St	andard	٩	•
Material			
Shell	Zinc diecast (ZnAl4Cu1)	•	•
Shell plating	Nickel or black Chrome	•	Nickel
Insert		PBTP 15% GR	PVC
Contacts	Brass (CuZn39Pb3)	•	•
Contact finish	Gold	•	•
Environmental			
Operating temperature	-25 °C to +85 °C	•	•
Flammability	UL94 V-0	•	•
Protection class	IP 65	•	•

Ordering Information

Chassis	
NAUSB-W	USB 2.0: USB A – USB B Adapter (reversible), sealing ring, optional grounding, nickel housing
NAUSB-W-B	USB 2.0: USB A – USB B Adapter (reversible), sealing ring, optional grounding, black housing
NAUSB3	USB 3.0: USB A – USB B Adapter (reversible), sealing ring, optional grounding, nickel housing
NAUSB3-B	USB 3.0: USB A – USB B Adapter (reversible), sealing ring, optional grounding, black housing

Patch Cable

NKUSB-*

USB 2.0 cable with overmolded flex relief and metal cable carrier, standard lengths: 1, 3, 5 m

Accessories

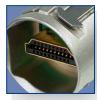


SCM	Plastic sealing cover to protect the Firewire connectors against dust and moisture.
SCDP-*	D-Size sealing gaskets, color coding
	(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover seals for D-size chassis connectors, IP 65 rated
NZP1RU-8	Panel1RU housing with 8 D-shape cutouts
NZP1RU-12	Panel1RU housing with 12 D-shape cutouts
	**: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White



H D M I A dapter





Push Pull locking

HDMI 1.3a





D-shape metal housing

HDMI 1.3a receptacle



HDMI Receptacles

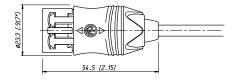
HDMI Patch Cable



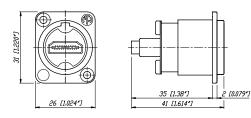
NKHDMI-*

- HDMI 1.4 data rate up to 10.2 GBit/s
- Push Pull mating design provides secure locking system if mated with NAHDMI-W*
- Shielded connection high noise immunity and EMI protection
- Ready made patch cables (0.6 m, 1 m, 3 m, 5 m and 10 m) with removeable rugged diecast cable carrier
- Mates with conventional HDMI receptacles if cable carrier is removed
- Dust and water resistant sealing in combination with NAHDMI-W*

NKHDMI-*



NAHDMI-W







- Audio / Video interface to transmit any digital TV and PC Video format including high-definition video (HDTV).
- HDMI 1.4 feedthrough adapter with 19 pole HDMI receptacle at both ends
- Optional screen to chassis grounding
- Universally accepted standard D-shape housing







D-shape metal housing

IEE 1394 receptacle



D-SUB data connector



D-shape metal housing



9 pole or 15 pole available

Firewire Receptacle





NA1394-6-W-B

NA1394-6-W

- Ideal for audio networking and integration of digital equipment into audio systems
- Firewire feedthrough adapter with 6 pole IEEE 1394 receptacle at both ends
- Optional screen to chassis grounding
- Universally accepted standard D-shape housing

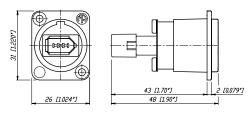




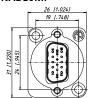
NADB9MF

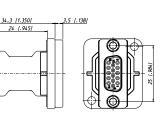
- D-SUB feedthrough adapter
- Optimized ground connection
- Standardized D-shape housing
- 9 pole and 15 pole versions available
- "Male Female" and "Female Female" versions available
- Nickel and black chrome plating available

NA1394-6-W



NADB9MF







D-SUB Feedtrough

Technical Data

Mechanical and	Electrical	HDMI Receptacle	HDMI Patch Cable	Firewire	D-SUB
Conform with Standards		HDMI 1.4	HDMI 1.4	IEEE	-
Material					
Shell	Zinc diecast (ZnAl4Cu1)	•	•	•	٠
Shellplating	Nickel or black Chrome	•	•	•	•
Insert		ABS	Nickel	PBTP 15% GR	Steel, tin plated
		-	PVC	-	PBT
Contacts	Brass (CuZn39Pb3)	•	•	•	•
Contact finish	Gold	•	•	•	•
Environmental					
Operating temperature	-25 °C to +85 °C	•	•	•	•
Flammability	UL94 V-0	•	•	•	•
Protection class	IP 65	•	•	-	-

Ordering Information Firewire

NA1394-6-W6 pole Firewire Adapter (IEEE 1394), sealing ring, optional grounding, nickel housingNA1394-6-W-B6 pole Firewire Adapter (IEEE 1394), sealing ring, optional grounding, black housing

Ordering Information HDMI

Chassis

NAHDMI-W	HDMI – HDMI Adapter, sealing ring, optional grounding, nickel housing
NAHDMI-W-B	HDMI – HDMI Adapter, sealing ring, optional grounding, black housing

Patch Cable

NKHDMI-*

HDMI 1.4 cable with overmolded flex relief and metal cable carrier, standard lengths: 0.6, 1, 3, 5, 10 m

Ordering Information D-SUB

NADB9MF	9 pole D-SUB feedthrough male-female, D-shape nickel housing
NADB9MF-B	9 pole D-SUB feedthrough male-female, D-shape black chrome housing
NADB9FF	9 pole D-SUB feedthrough female-female, D-shape nickel housing
NADB9FF-B	9 pole D-SUB feedthrough female-female, D-shape black chrome housing
NADB15MF	15 pole D-SUB feedthrough male-female, D-shape nickel housing
NADB15MF-B	15 pole D-SUB feedthrough male-female, D-shape black chrome housing
NADB15FF	15 pole D-SUB feedthrough female-female, D-shape nickel housing
NADB15FF-B	15 pole D-SUB feedthrough female-female, D-shape black chrome housing



Accessories





SCM







SCDP-*

DSS-**	Lettering plate for D series, colored plastic
SCM	Plastic sealing cover to protect the Firewire connectors against dust and moisture.
SCDP-*	D-Size sealing gaskets, color coding
	(*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover seals for D-size chassis connectors, IP 65 rated
NZP1RU-8	Panel1RU housing with 8 D-shape cutouts
NZP1RU-12	Panel1RU housing with 12 D-shape cutouts

**: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White

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٠	٠	۰	0	0	۰	۰	0	0	۰	۰	۰	٠	۰	۰	۰	٠	۰	۰	0	٠	٠	۰	۰	۰	۰	۰	0	0	۰	0	0	٠		۰	
	۰	۰		۰	0	•	•	0	0	•	۰	•	۰	۰	۰	•	0	۰		۰	۰	•	۰	0	0	•		0	۰			۰	۰	•	





BNC Connectors



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NEUTRIK[®] **75** Ω **BNC** Connectors



Neutrik offers a variety of 75 Ω cable and chassis BNC connectors. The rearTWIST cable connectors are easy to handle in high density applications such as video patchbays and switches, provide a tactile and fast assembly and offer colour coding as a standard. All parts of our BNC series are precisely machined to our high quality standards.

NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®],XIRIUM[®], are registered trademarks of Neutrik AG.





rearTWIST UHD - BNC Connector

With the transition to 4K or even 8K-signals the impedance of BNC connectors became more important than ever. Every deviate impedance has a negative influence on return loss and VSWR (Voltage Standing Wave Ratio) which are important measurements for reflected signals in a transmission line. Especially on high data rates up to 24 Gb/s, as they occur when transmitting ultra high definition (UHD) signals, an impedance mismatch results in high return loss.

Neutrik's new rearTWIST UHD-BNC connector is a specificly for high frequencies optimized BNC connector; based on the proven rearTWIST technology. The unique insulator design in combination with the reduced outer diameter of the gold plated center pin allows UHD-data transmission within the required return loss limits.





Features & Benefits

- Screen and cable jacket crimp instead of screen crimp only. Grooved inner surface holds the cable jacket to prevent tearing braids.
- (2) High frequency optimized insulator design for UHD-transmissions.
- ③ Reduced pin diameter for performance improvement (return loss values).
- ④ Swiss antraloy plating
- (5) rearTWIST boot for easy access in high density applications.









Gold plated contacts

NEW

Precise Swiss machined parts

rearTWIST UHD & Panel Version



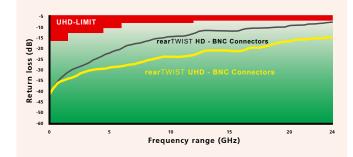
NBTC75BFG7X

- Optimized contact pin and insulator design for UHD-data transmission
- Proven rearTWIST technology
- Swiss antraloy plating
- Available for common cable types
- Fully compatible with conventional BNC chassis connectors
- D-size feedthrough chassis connectors

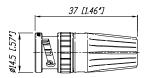


NBB75DFGX

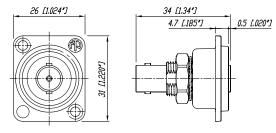
Neutrik BNCs – Low return loss!



NBNC75*



NBB75DFG





rearTWIST HD BNC





Bayonet locking

Gold plated contacts

cts 9 different colors available





Female cable jack

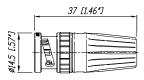


rearTWIST HD



- "rearTWIST Principle" locking / unlocking using the easily accessible soft touch boot (Patent DE 100 48507)
- Ideal for recessed bulkheads where access to the "head" of the connector might be an issue. These connectors turn from the back and not the front.
- Snug-fit center pin insert provides tactile feedback
- Shield and jacket crimp technology prevents the problem of an exposed grounding braid on cable assemblies
- Large version for RG 11 cable
- Precise Swiss machined brass parts for outstanding durability
- Accessories include color coded boots in 10 standard colors, crimp tool and dies
- Sleek female cable jack e.g. for Y-cables

NBNC75*





	rearTWIST UHD	rearTWIST HD	rearTWIST HD Tiny	Cable Jack & Panel	Pin Cri in m		lex Crimp in mm	o S	trip To	ping ol	J
	1										
					~			C-RT			CS-BNC-TC
					ПНD	ΠР		S-BNC-RT	S-BNC-LCS	S-BNC-LCV	. CS-E
					:		: :	0	0	0	+
Belden											
Belden 1277R, 1278R, 1279R			NBTC75BNN5			1.6	4.53	•	-	-	٠
Belden 1406B, 1407B, 1417B			NBTC75BVV5			1.6	5.00	•	-	-	٠
Belden 1426A, 1505A (ANH)	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47	•	-	-	-
Belden 1505F		NBNC75BJP9			1.07	1.6	6.47	•	-	-	-
Belden 1506A		NBNC75BIJ9			1.07	1.6	5.41	•	-	-	-
Belden 1520A, 1521A, 1522A, 179DT			NBTC75BFI4	NBTB75CFI4		1.6	4.06	•	-	-	٠
Belden 1694A (ANH)	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	•	-	-	-
Belden 1694F		NBNC75BRU11				1.6	7.36	•	-	-	-
Belden 1695A		NBNC75BQP11				1.6	6.47	•	-	-	-
Belden 1855A		NBNC75BDD6				1.6	4.53	•	-	-	-
Belden 1865A			NBTC75BXX6		1.07	1.6	5.00	•	-	-	٠
Belden 1855ENH	NBNC75BFG7X	NBNC75BFG7				1.6	5.00	•	-	-	-
Belden 7731A (ANH)		NBLC75BVZ17				1.8	10.00	-	-	•	-
Belden 8218			NBTC75BXX5			1.6	5.00	•	-	-	٠
Belden 8241	NBNC75BLP7X	NBNC75BLP7				1.6	6.47	•	-	-	-
Belden 8241F	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9		1.6	6.47	•	-	-	-
Belden 8281		NBNC75BXY9				1.6	8.23	•	-	-	-
Belden 8281F		NBNC75BYY9				1.6	8.23	•	-	-	-
Belden 9221			NBTC75BLI4			1.6	4.06	•	-	-	•
Belden 1794A		NBNC75BZV14				1.6	8.23	•	-	-	-
Canare											
Canare L-3CFB		NBNC75BHK7				1.6	5.41	•	-	-	-
Canare L-4CFB	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47	•	-	-	-
Canare L-5CFB		NBNC75BYY11				1.6	8.23	•	-	-	-
Canare LV-61S	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47	•	-	-	-
Canare LV-77S		NBNC75BYY9				1.6	8.23	•	-	-	-
Canare V(3-5)-3C		NBNC75BGG7				1.6	5.00	•	-	-	-
Canare V(3-5)-4CFB		NBNC75BJJ9				1.6	5.41	•	-	-	-
Canare V(3-5)-5C		NBNC75BRS9				1.6	7.01	•	-	-	-
Canare V(3-5)-5CFB		NBNC75BWS11				1.6	7.01	•	-	-	-
Canare L-1.5C2VS			NBTC75BLI4			1.6	4.06	•	-	-	٠
Canare L-3CFW		NBNC75BLP7				1.6	6.47	•	-	-	-
Canare L-5CFW		NBNC75BYY11				1.6	8.23	•	-	-	-
Commscope											
Commscope 2065V		NBNC75BIJ9				1.6	5.41	•	-	-	-
Commscope 2279V		NBNC75BQP11				1.6	6.47	•	-	-	-
Commscope 5563		NBNC75BLP7				1.6	6.47	•	-	-	-
Commscope 5565	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47	•	-	-	-
Commscope 5765	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	•	-	-	-
Commscope 7536 (03-05)			NBTC75BXX6			1.6	5.00	•	-	-	٠
Commscope 7538	NBNC75BDD6X	NBNC75BDD6			1.07	1.6	4.53	•	-	-	-
Canford											
Canford SDV-M		NBTB75CNN5				1.6	4.53	•	-	-	٠
Canford SDV, SDV-X, SDM		NBNC75BFG7				1.6	5.00	•	-	-	-
Canford SDV-L, SDV-F		NBNC75BWS11				1.6	7.01	•	-	-	-
Canford SDV-HD		NBLC75BVZ17				1.8	10.00	-	-	•	-
Canford SDV-F-HD		NBNC75BWU13				1.6	7.36	•	-	-	-
Canford VCS (BBC PSF1/3)		NBNC75BLS7				1.6	7.01	•	-	-	-

	rearTWIST UHD	rearTWIST HD	rearTWIST HD Tiny	Cable Jack & Panel	Pin Cri in m		ex Crim in mm	р		oping ool	9
	: <u> </u>	:;		: <u> </u>			: <u> </u>				Ē
									CS-BNC-LCS	S-BNC-LCV	L S RNC TO
					ПНD	D		CS-BNC-RT	BNC	BNC	AR A
						ЧD		CS-	CS-	CS-	ں ۱
Draka Multimedia Cable											
0.31 / 1.45 AF, 753-1304(2),											
755-1302			NBTC75BFI4	NBTB75CFI4		1.6	4.06	•	-	-	•
0.41 / 1.9 AF, 753-1104, 755-1103,			NDIC/JDII4	NUTU/JCI14		1.0	4.00	•			
755-1101			NBTC75BNN5	NBTB75CNN5		1.6	4.53	•	-	-	
0.51 / 2.3 Dz, 757-1001, VADN 7243			NBTC75BVX6	No for service		1.6	5.00	•	-	-	
0.6 / 2.8 AF, 0.6 L / 2.8 AF	NBNC75BFG7X	NBNC75BFG7	10107501710		1.07	1.6	5.00	•	-	-	
0.6 / 3.7, 0.6L / 3.7	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47	•	-	-	
0.6 / 3.7 Dz	indire? bbei //	NBNC75BLS7			1.07	1.6	7.01	•	-	-	
0.8 / 3.7 AF, 755-801(803, 804)	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47	•	-	-	
0.8 / 4.9 Dz		NBNC75BXY9				1.6	8.23	•	-	-	
1.0 / 4.8 AF, 755-901/5		NBNC75BUU11		NBNB75GUU11	1.07	1.6	7.36	٠	-	-	
1.2L / 4.8Dz, 1.2L / 4.95AF		NBNC75BWU13				1.6	7.36	•	-	-	
1.4 / 6.6 AF		NBLC75BSX14				1.75	9.73	-	٠	-	
1.6 / 7.3AF		NBLC75BVZ17				1.8	10.00	-	-	•	
Suhner						-					
Suhner G02233			NBTC75BFI4	NBTB75CFI4		1.6	4.06	•	-	-	(
Suhner G04233D		NBNC75BLS7				1.6	7.01	٠	-	-	
Suhner S02223			NBTC75BLI4			1.6	4.06	•	-	-	•
Suhner S04233, S04263	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47	٠	-	-	
Suhner \$05133-07	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	•	-	-	
Suhner \$05163-02	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	٠	-	-	
Percon											
Percon VK2			NBTC75BNN5			1.6	4.53	٠	-	-	•
Percon VK5	NBNC75BFG7X	NBNC75BFG7				1.6	5.00	•	-	-	
Percon VK6	NBNC75BLP9X	NBNC75BLP9			1.07	1.6	6.47	٠	-	-	
Percon VK7		NBNC75BUU11				1.6	7.36	•	-	-	
Percon VK77	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	٠	-	-	
Percon VK770F		NBNC75BWU13				1.6	7.36	•	-	-	
Percon VK8		NBLC75BSX14				1.75	9.73	-	٠	-	
Percon VK9		NBLC75BVZ17				1.8	10.0	-	-	•	
Percon VK95	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47	٠	-	-	
Van Damme											
Van Damme 268-175-000		NBNC75BUU11				1.6	7.36	٠	-	-	
Van Damme 268-275-000		NBNC75BJP9				1.6	6.47	•	-	-	
Van Damme 268-306-000	NBNC75BLP9X	NBNC75BLP9			1.07	1.6	6.47	•	-	-	
Van Damme 268-408-000			NBTC75BFI14			1.6	6.47	٠	-	-	•
Van Damme 268-475-000		NBNC75BTU11			1.07	1.6	7.36	٠	-	-	
Van Damme 268-675-000	NBNC75BTU11X	NBNC75BTU11			1.07	1.6	7.36	•	-	-	
Van Damme 278-475-000		NBLC75BVZ17				1.8	10.00	-	-	٠	
Van Damme 278-175-000		NBNC75BUU11				1.6	7.36	•	-	-	
Van Damme 278-975-000	NBNC75BLP9X	NBNC75BLP9			1.07	1.6	6.47	•	-	-	
Van Damme 278-775-000			NBTC75BSS5			1.6	4.53	•	-	-	1
Van Damme 278-075-000	NBNC75BFG7X				1.07	1.6	5.00	•	-	-	
Van Damme 278-075-006	NBNC75BFG7X				1.07	1.6	5.00	•	-	-	
Van Damme 278-375-000		NBNC75BUU11				1.6	7.36	•	-	-	



	rearTWIST UHD	rearTWIST HD	rearTWIST HD Tiny	Cable Jack & Panel	Pin Crim in mm		Hex Crimp in mm	Strip To	oping ool	9
					ОНР		L AND - PAT	CS-BNC-LCS	S-BNC-LCV	CS-BNC-TCI
					5	HD	, ,	CS- CS	CS-	+
Argosy Image										
Argosy Image 360	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	5.00) -	-	-
Argosy Image 720 Argosy Image 1000	NBNC75BLP9X	NBNC75BLP9 NBNC75BUU11		NBNB75GUU11	1.07	1.6 1.6	6.47 7.36	-	-	-
CĂE										
CAE MC75 CAE MC75.39			NBTC75BLI5 NBTC75BVX6	NBTB75CLI5		1.6 1.6	4.06		-	•
CAE KX6A	NBNC75BLP7X	NBNC75BLP7	110107500700		1.07	1.6	6.47		-	-
CAE VCB75 CAE VCB 100		NBNC75BNP9 NBNC75BXU13				1.6 1.6	6.47 7.36		-	-
Cordial		NDINC 7 SBAUTS				1.0	7.50	, -	-	_
Cordial CVI 3-7	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	4.53		-	-
Cordial CVI 06-28 Cordial CVI (CVM) 06-37	NBNC75BFG7X NBNC75BLP7X	NBNC75BFG7 NBNC75BLP7			1.07 1.07	1.6 1.6	5.00 6.47		-	-
Cordial CVI 10-48 HD		NBNC75BUU11				1.6	7.36	- (-	-
Kabeltronik Kabeltronik HFV 1.0/4.8 AF-FRNC		NBNC75BRU11				1.6	7.36	-	-	-
Kabeltronik HFV 0.6/2.8 AF-FRNC	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	5.00) _	-	-
Kabeltronik MVP 5x 0.6/2.8 AF-FRNC KLOTZ	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	5.00) -	-	-
KLOTZ V06/28, VMXx75Y	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	5.00) _	-	-
KLOTZ V06/37	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47		-	-
KLOTZ V10/48 KLOTZ V16/72		NBNC75BUU11 NBLC75BVZ17		NBNB75GUU11		1.6 1.8	7.36 • 10.00 •		-	-
Nexans		NDEC7 50V217				1.0	10.00		-	
Nexans HF 75 0.6/2.9 02YS(ST)CH	NBNC75BFG7X	NBNC75BFG7 NBNC75BVZ17			1.07	1.6 1.8	5.00 • 10.00 •) -	-	-
Nexans HF 75 1.6/7.2 02Y(ST)C(ST)H Nexans HF 75 0.6/3.7 2YCY	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47) _	-	-
Proel										
Proel HPC 805 Proel HPC 810	NBNC75BLP9X	NBNC75BLP7 NBNC75BLP9			1.07	1.6 1.6	6.47 6.47		-	-
Proel HPC 820	NUNCY SUCCESS	NBNC75BFH6			1.07	1.6	5.00		-	-
RG						1 0	10.00		•	
RG11 RG59B/U	NBNC75BLP7X	NBLC75BVZ17 NBNC75BLP7			1.07	1.8 1.6	10.00 - 6.47 •		-	-
RG179B/U			NBTC75BLI4			1.6	4.06) _	-	٠
SOMMER SOMMER 600-0051 (M/L/S)	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47) -	-	-
SOMMER 600-0054 (M/L/S)	NBNC75BLP7X	NBNC75BLP7			1.07	1.6	6.47	- (-	-
SOMMER 600-0101M SOMMER 600-0104M	NBNC75BFG7X NBNC75BFG7X	NBNC75BFG7 NBNC75BFG7			1.07 1.07	1.6 1.6	5.00 5.00		-	-
SOMMER 600-162(F)	NBNC75BLP9X	NBNC75BLP9			1.07	1.6	6.47		-	-
SOMMER 600-025* -03 (05)			NBTC75BLI5	NBTB75CLI5		1.6	4.06		-	•
SOMMER 600-0701 SOMMER 600-020* -03 (05)			NBTC75BLI5 NBTC75BLI5	NBTB75CLI5 NBTB75CLI5		1.6 1.6	4.06		-	•
SOMMER 600-0451	NBNC75BLP9X	NBNC75BLP9		NBNB75GLP9	1.07	1.6	6.47		-	-
SOMMER 600-0751 Others			NBTC75BVX6			1.6	5.00	-	-	•
AT&T 735			NBTC75BSS5			1.6	4.53) -	-	•
COMM-TEC RGBHV			NBTC75BSS5			1.6	4.53		-	•
BBC PSF 1/3* BESCA France - Bengat		NBNC75BLS7	NBTC75BNS4			1.6 1.6	7.01 4.53		-	•
Bryant BD SD50		NBNC75BRS9				1.6	7.01		-	-
Bryant BD SD53F COVID CVD 1300-1500		NBNC75BJP9	NBTC75BLI5	NBTB75CLI5		1.6 1.6	6.47 4.06		-	•
Eupen 705 CRT 5V-HS		NBNC75BTS11		Norby Seels		1.6	7.36		-	-
Extron BNC-5HR Extron BNC-5RC	NBNC75BFG7X	NBNC75BFG7	NBTC75BNN5	NBTB75CNN5	1.07	1.6 1.6	4.53 5.00		-	•
Fuzion SD-1	NBNC75BFG7X	NBNC75BFG7			1.07	1.6	5.00		-	-
Fuzion SD-1-LL	NDNGZERI DON	NBNC75BWS11		NDNDZEGLDO		1.6	7.01		-	-
GEPCO VPM2000 GEPCO VSD2001	NBNC75BLP9X NBNC75BTU11X	NBNC75BLP9 NBNC75BTU11		NBNB75GLP9	1.07 1.07	1.6 1.6	6.47 7.36		-	-
Helix 734		NBNC75BNP9				1.6	6.47	- (-	-
Helix 735 Hirschmann KOKA 712Cu		NBNC75BTS9	NBTC75BSS5			1.6 1.6	4.53 6.47		-	•
Kansai 3C-5S		NBNC75BFH6				1.6	5.00		-	-
KROSCHU (341 270, 341 280)				NBTC75BLI4		1.6	4.06		-	•
Wisi MK 99A ZNK CM14B			NBNC75BWS12 NBTC75BFI4	NBTB75CFI4		1.6 1.6	7.01 4.06) _	-	•
* Registered trademark of BBC						_				

reartWIST HD & UI NBLC75BVZ17 NBLC75BSX14 NBC75BDD6 NBNC75BDD6X NBNC75BFG7 NBNC75BFG7 NBNC75BFG7 NBNC75BFG7 NBNC75BFG8 NBNC75BF9 NBNC75B19 NBNC75B19	< 1.7 < 1.4 < 0.6 < 0.7 < 0.7 < 0.6 < 0.7 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	< 8.0 < 6.6 < 2.8 < 2.8 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 < 3.8	< 10.4 < 9.5 < 4.3 < 4.3 < 4.7 < 4.7 < 4.7 < 4.9 < 4.7 < 5.6 < 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.80 (Hex crimp) 1.75 (Hex crimp) 1.6 1.07 1.6 1.07 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	$ \begin{array}{c} 10.00\\ 9.73\\ 4.53\\ 4.53\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.41\\ 5.41\\ 5.41\\ 5.41\\ 6.47\\ 6.47\\ 6.47\\ 6.47\\ 6.47\\ 6.47\\ \end{array} $	CS-BNC-RT		CS-BNC-LCV	+ CS-BNC-TCI
BLC75BVZ17 BLC75BSX14 BNC75BDD6 BNC75BDD6X BNC75BFG7 BNC75BFG7 BNC75BFG7X BNC75BFH6 BNC75BHK7 BNC75BJ9 BNC75BJ9 BNC75BJ9 BNC75BLP7 BNC75BLP7 BNC75BLP7 BNC75BLP7X BNC75BLP9 BNC75BLP9 BNC75BLP9 BNC75BLP9 BNC75BLP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9	< 1.7 < 1.4 < 0.6 < 0.7 < 0.7 < 0.6 < 0.7 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	<pre>< 6.6 < 2.8 < 2.8 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 < 3.8</pre>	$ \begin{array}{r} < 9.5 \\ < 4.3 \\ < 4.3 \\ < 4.7 \\ < 4.7 \\ < 4.7 \\ < 5.6 \\ < 5.3 \\ < 5.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ \end{array} $	1.75 (Hex crimp) 1.6 1.07 1.6 1.6 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.6 1.07	9.73 4.53 4.53 5.00 5.00 5.00 5.00 5.41 5.41 5.41 6.47 6.47	• • • • • •	-	- - - - - - -	-
BLC75BSX14 BNC75BDD6 BNC75BDD6X BNC75BFG7 BNC75BFG7 BNC75BFH6 BNC75BG7 BNC75BHK7 BNC75BJ9 BNC75BJ9 BNC75BJ9 BNC75BJP9 BNC75BLP7 BNC75BLP7 BNC75BLP9 BNC75BLP9 BNC75BLP9 BNC75BLP9 BNC75BLS7 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9 BNC75BNP9	< 1.4 < 0.6 < 0.7 < 0.7 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 0.9 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.17 < 0.9 < 0.17 < 0.9 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.11 < 0.	<pre>< 6.6 < 2.8 < 2.8 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 < 3.8</pre>	$ \begin{array}{r} < 9.5 \\ < 4.3 \\ < 4.3 \\ < 4.7 \\ < 4.7 \\ < 4.7 \\ < 5.6 \\ < 5.3 \\ < 5.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ \end{array} $	1.75 (Hex crimp) 1.6 1.07 1.6 1.6 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.6 1.07	9.73 4.53 4.53 5.00 5.00 5.00 5.00 5.41 5.41 5.41 6.47 6.47	• • • • • •	-	- - - - - - -	-
NBNC75BDD6 NBNC75BFG7 NBNC75BFG7X NBNC75BFG7X NBNC75BFH6 NBNC75BGG7 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BLP7 NBNC75BLP7 NBNC75BLP7 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9	< 0.6 < 0.6 < 0.7 < 0.7 < 0.7 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	<pre>< 2.8 < 2.8 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 </pre>	$\begin{array}{c} < 4.3 \\ < 4.3 \\ < 4.7 \\ < 4.7 \\ < 4.7 \\ < 5.6 \\ < 5.3 \\ < 5.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \\ < 6.3 \end{array}$	1.75 (Hex crimp) 1.6 1.07 1.6 1.6 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.6 1.07	4.53 4.53 5.00 5.00 5.00 5.00 5.41 5.41 5.41 6.47 6.47	• • • • • •	-	- - - - - - -	-
NBNC75BDD6X NBNC75BFG7 NBNC75BFG7X NBNC75BFG6 NBNC75BGG7 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BLP7 NBNC75BLP7 NBNC75BLP7 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9	< 0.6 < 0.7 < 0.7 < 0.6 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	< 2.8 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 < 3.8	< 4.3 < 4.7 < 4.7 < 4.9 < 4.7 < 5.6 < 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.07 1.6 1.07 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.07	4.53 5.00 5.00 5.00 5.41 5.41 5.41 5.41 6.47 6.47	• • • • • •	-	- - - - - - -	-
NBNC75BFG7 NBNC75BFG7X NBNC75BFG6 VBNC75BGG7 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BLP7 NBNC75BLP7 VBNC75BLP7 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9	< 0.7 < 0.7 < 0.6 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	<pre>< 3.1 < 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 </pre>	< 4.7 < 4.7 < 4.9 < 4.7 < 5.6 < 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 1.07 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.6 1.07	5.00 5.00 5.00 5.41 5.41 5.41 5.41 6.47 6.47	• • • •	- - - - - - -		-
NBNC75BFG7X NBNC75BFH6 NBNC75BGG7 NBNC75BHK7 NBNC75BJJ9 NBNC75BJJ9 NBNC75BJP9 NBNC75BLP7 NBNC75BLP7 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BLP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9	< 0.7 < 0.6 < 0.7 < 0.9 < 0.9 < 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	<pre>< 3.1 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 </pre>	< 4.7 < 4.9 < 4.7 < 5.6 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.07 1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.07	5.00 5.00 5.41 5.41 5.41 6.47 6.47	• • • •	- - - - - -	- - - - -	-
NBNC75BFH6 NBNC75BGG7 NBNC75BJ9 NBNC75BJ9 NBNC75BJ9 NBNC75BJP9 NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLP9X NBNC75BLP9X NBNC75BLP9 NBNC75BNP9 NBNC75BNP9	< 0.6 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	 < 3.1 < 3.2 < 3.3 < 3.6 < 3.8 	< 4.9 < 4.7 < 5.6 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.6 1.07	5.00 5.00 5.41 5.41 5.41 6.47 6.47	•	- - - - -	-	-
NBNC75BGG7 NBNC75BHK7 VBNC75BJJ9 NBNC75BJP9 VBNC75BJP7 NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 VBNC75BLP9X NBNC75BLP9X NBNC75BLP9 NBNC75BNP9 VBNC75BNP9 VBNC75BNP9	< 0.7 < 0.7 < 0.9 < 0.9 < 0.7 < 0.7 < 0.7 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.2 < 3.3 < 3.6 < 3.8 < 3.8	< 4.7 < 5.6 < 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.07	5.00 5.41 5.41 5.41 6.47 6.47	•	- - - -	-	-
VBNC75BHK7 VBNC75BIJ9 VBNC75BJP9 VBNC75BLP7 VBNC75BLP7X VBNC75BLP9X VBNC75BLP9X VBNC75BLP9X VBNC75BLS7 VBNC75BNP9 VBNC75BNP9 VBNC75BNP9 VBNC75BNP9	< 0.7 < 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 0.7 < 0.9 < 1.1	< 3.3 < 3.6 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 5.6 < 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 (or 1.75 Hex) 1.6 1.6 1.6 1.6 1.0	5.41 5.41 5.41 6.47 6.47	•	- - - -	-	-
NBNC75BIJ9 NBNC75BJJ9 NBNC75BJP9 NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9	< 0.9 < 0.9 < 0.7 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.6 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 5.3 < 5.3 < 6.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 1.6 1.6 1.6 1.07	5.41 5.41 6.47 6.47	•		-	-
NBNC75BJJ9 NBNC75BJP9 NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLP9X NBNC75BNP9 NBNC75BNP9 NBNC75BNP9 NBNC75BNP9	< 0.9 < 0.9 < 0.7 < 0.7 < 0.9 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 5.3 < 6.3 < 6.3 < 6.3 < 6.3	1.6 1.6 1.6 1.07	5.41 6.47 6.47	-		-	-
NBNC75BJP9 NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.9 < 0.7 < 0.7 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 6.3 < 6.3 < 6.3 < 6.3	1.6 1.6 1.07	6.47 6.47	-	-		-
NBNC75BLP7 NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.7 < 0.7 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 6.3 < 6.3 < 6.3	1.6 1.07	6.47	-	-		
NBNC75BLP7X NBNC75BLP9 NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.7 < 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8 < 3.8 < 3.8 < 3.8	< 6.3 < 6.3	1.07		•		-	-
NBNC75BLP9 NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.9 < 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8 < 3.8	< 6.3		6 47	-	-	-	-
NBNC75BLP9X NBNC75BLS7 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.9 < 0.7 < 0.9 < 1.1	< 3.8 < 3.8		1.0	0.17	•	-	-	-
NBNC75BLS7 NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.7 < 0.9 < 1.1	< 3.8	< 6.3	1.6	6.47	•	-	-	-
NBNC75BNP9 NBNC75BQP11 NBNC75BRS9	< 0.9 < 1.1			1.07	6.47	•	-	-	-
NBNC75BQP11 NBNC75BRS9	< 1.1	< 1 1	< 6.9	1.6	7.01	•	-	-	-
NBNC75BRS9		< 4. I	< 6.3	1.6	6.47	•	-	-	-
	< 0.0	< 4.5	< 6.3	1.6	6.47	•	-	-	-
	< 0.9	< 4.8	< 6.9	1.6	7.01	•	-	-	-
NBNC75BTS9	< 0.9	< 4.7	< 6.9	1.6	7.01	•	-	-	-
NBNC75BTS11	< 1.1	< 4.7	< 6.9	1.6	7.01	•	-	-	-
NBNC75BTU11	< 1.1	< 4.7	< 7.3	1.6	7.36	•	-	-	-
NBNC75BTU11X	< 1.1	< 4.7	< 7.3	1.07	7.36	•	-	-	-
NBNC75BTU13	< 1.3	< 4.7	< 7.3	1.6	7.36	•	-	-	-
NBNC75BUU11	< 1.1	< 4.9	< 7.3	1.6	7.36	•	-	-	-
NBNC75BRU11	< 1.1	< 4.7	< 7.3	1.6	7.36	•	-	-	-
NBNC75BWS11	< 1.1	< 5.1	< 6.9	1.6	7.01	•	-	-	-
NBNC75BWS12	< 1.2	< 5.1	< 6.9	1.6	7.01	•	-	-	-
NBNC75BWU13	< 1.4	< 5.1	< 7.3	1.6	7.36	•	-	-	-
NBNC75BXU13	< 1.4	< 5.3	< 7.3	1.6	7.36	•	-	-	-
NBNC75BXY9	< 0.9	< 5.3	< 8.0	1.6	8.23	•	-	-	-
NBNC75BYY9	< 0.9	< 5.2	< 8.0	1.6	8.23	•	-	-	-
NBNC75BYY11	< 1.1	< 5.2	< 8.0	1.6	8.23	٠	-	-	-
NBNC75BZV14	< 1.4	< 5.2	< 8.0	1.6 (or 1.75 Hex)	8.23	•	-	-	-
rearTWIST TINY									
NBTC75BFI4	< 0.4	< 1.6	< 2.9	1.6	4.06	•	_	_	
NBTC75BLI4	< 0.4	< 1.8	< 2.9	1.6	4.06	•	-	-	-
NBTC75BLI5	< 0.4	< 1.8	< 2.9	1.6	4.06	•	-	-	
NBTC75BNN5	< 0.5	< 2.0	< 3.1	1.6	4.00	•	-	-	
NBTC75BNS4	< 0.4	< 2.0	< 3.5	1.6	4.53	•	-	-	
NBTC75BSS5	< 0.4	< 2.3	< 3.4	1.6	4.53	•	-	-	
NBTC75BVV5	< 0.5	< 2.5	< 3.8	1.6	5.00	•	-	-	
NBTC75BVX6	< 0.6	< 2.5	< 4.0	1.6	5.00	•	-	-	
NBTC75BXX5	< 0.5	< 2.6	< 4.0	1.6	5.00	•	-	-	•
NBTC75BXX6	< 0.6	< 2.6	< 4.0	1.6	5.00	•	-	-	-
CABLE JACKS (TINY	Y & PANE	L VERSIO	ON)						
NBTB75CFI4	< 0.4	< 1.6	< 2.9	1.6	4.06		-	-	
NBTB75CNN5	< 0.4	< 2.0	< 3.1	1.6	4.00	•	-	_	
NBTB75CLI5	< 0.5	< 1.8	< 2.9	1.6	4.06	•	_	-	
NBIB75GLP9	< 0.5	< 1.8	< 6.3	1.6	6.47		_	-	
NBNB75GUU11	< 1.1	< 4.9	< 7.3	1.6	7.36	•	_	_	
NBNB75GUUTT NBNB75ILP9	< 0.9	< 3.8	< 6.3	1.6	6.47		_	_	
NBNB75IUU11	< 1.1	< 4.9	< 7.3	1.6	7.36	•		-	
	· 1.1		- 1.5	1.0	7.50	•			









D-shape metal housing

Gold plated center pin

BNC Chassis & Cable Jacks Panel Version ΗD



Bulkhead Jacks - NBB75FG







NBB75DFGB

NBB75DFG

26 [1.024"]

P

31 [1.220"]

Cable jacks Panel Version – NBB75SI

34 [1.34*]

4.7 [.185*****]

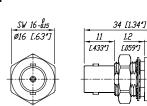
0.5 [.020*****]

• True 75 Ω design meets the stringent HDTV/DVD requirements

11

[.433*]

- Isolated or grounded versions
- "D" shaped housing (provides flush mounting and protection of the jacks from damage) or single feed through mountings
- Gold plated center contact

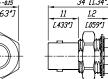


Ordering Information

Nickel housing	Black housing	Antraloy housing	
NBB75DFG	NBB75DFGB		Bulkhead jack, D-shape housing, feed through, grounded
		NBB75DFGBX	Bulkhead jack, D-shape housing, feed through, grounded, UHD-optimezed
NBB75DFI	NBB75DFIB		Bulkhead jack, D-shape housing, feed through, isolated
NBB75DSG	NBB75DSGB		Bulkhead jack, D-shape housing, solder version, grounded
NBB75DSI	NBB75DSIB		Bulkhead jack, D-shape housing, solder version, isolated
NBB75FG			Bulkhead jack, feed through, grounded
NBB75FI			Bulkhead jack, feed through, isolated
NBB75SI			Bulkhead jack, solder version, including isolationwashers
NBB75FA			Coupler, feed through



NBB75FI





Technical Data

	tions			earTWIST HD & arTWIST HD Large	rearTWIST HD Tiny & Cable	Bulkheads &
				& Cable Jack Panel	Jack Tiny	Coupler
Electric	al					
Impedance		75 Ω	•	•	•	•
Rated voltage	e	500 V ac rms	•	•	250 V ac rms	•
Insulation res	sistance	> 5 GΩ	•	•	•	•
Dielectric wit	hstanding voltage	1'500 V ac rms	•	•	750 V ac rms	•
VSWR / Retu	rn Loss	\leq 1.050 / $>$ 32 dB up to 1 GHz	\leq 1.06/>30 dB up to 6 GHz	•	\leq 1.10/>26 dB up to 1 GHz	\leq 1.03/> 37 dB up to 1 G
		\leq 1.065 / > 30 dB up to 2 GHz	\leq 1.13/>24 dB up to 12 GHz	•	\leq 1.14/>24 dB up to 2 GHz	\leq 1.05/> 32 dB up to 2 G
		\leq 1.100 / > 26 dB up to 3 GHz	\leq 1.22/>20 dB up to 18 GHz	•	\leq 1.22/>20 dB up to 3 GHz	\leq 1.08/>28 dB up to 3 G
Inner contact	t resistance	\leq 3 m Ω (initial)	•	•	•	•
Outer contac	uter contact resistance $\leq 2 \text{ m}\Omega$ (initial)		•	•	•	•
Mechan	ical					
Cable anchor	ring	Jacket crimping	•	•	•	N/A
Cable O.D. ra	-	mm	4.3 - 7.3	4.0 - 7.7	2.5 - 3.8	N/A
	- Rear Twist Large	mm	-	10.3	-	-
Center conta	3	> 30 N	•	•	•	-
Engagement	force	< 25 N	•	•	•	•
Lifetime		1`000 mating cycles	•	•	•	•
Materia Shell	Brass (CuZn39Pb3)	Optalloy coated	-	•	•	•
		Antraloy coated	•	-	-	-
		PA6 (Push Pull only)	-	N/A	N/A	N/A
D Chang have	isina:	•				
D-Shape nou		Zinc diecast (ZnAl4Cu1) gal Ni or black Cr platin	N / A	N / A	N / A	NBB75D*
u-snape nou		gal Ni or black Cr platin	N / A	N / A -	N / A	
		· · · · · ·		N / A -	N / A -	
	act	gal Ni or black Cr platin Antraloy coated		N/A -	N/A -	
	act Bronze (CuSn6), 0.2 μ	gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15	•	-	-	
Ground cont	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15	•	-	-	
Ground cont	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (act	gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated	•	-	-	
Ground cont	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (Ict Brass (CuZn35Pb2), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated D.2 µm AuCo or	•	•	•	
Ground cont	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (act	gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 OPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo	•	•	•	
Ground cont	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (Ict Brass (CuZn35Pb2), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 OPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE	•	•	•	
Ground cont Center conta Insulator	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (Ict Brass (CuZn35Pb2), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE Polypropylen PP	•	- - - -	- - - - -	NBB75D* - - - - - - - - - - - - - -
Ground cont Center conta Insulator Chuck	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (act Brass (CuZn35Pb2), (Brass (CuZn39Pb3), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 OPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE	• • • • • • • • • • • • • • • • • • • •	- - - -	- - - -	NBB75D* - - - - - - - -
Ground cont Center conta Insulator Chuck Insulation Sh	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), (act Brass (CuZn35Pb2), (Brass (CuZn39Pb3), (gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE Polypropylen PP Polyacetal POM	• - - - - N / A	- - - - - N / A	- - - - - N / A	NBB75D* - - - - - - - - - N / A
Ground cont Center conta Insulator Chuck Insulation Sh E n v i r o n	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), 0 act Brass (CuZn35Pb2), 0 Brass (CuZn39Pb3), 0 eell mental	gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE Polypropylen PP Polyacetal POM Polyacetal POM	• - - - N / A N / A	- - - - N / A N / A	- - - - N / A N / A	NBB75D* - - - - - - N / A - N / A
Center conta Insulator Chuck Insulation Sh E n v i r o n Temperature	act Bronze (CuSn6), 0.2 µ Brass (CuZn39Pb3), 0 act Brass (CuZn35Pb2), 0 Brass (CuZn39Pb3), 0 eell mental	gal Ni or black Cr platin Antraloy coated m AuCo over 2 µm NiP15 DPTALLOY coated 0.2 µm AuCo or 0.2 µm AuCo Teflon PTFE Polypropylen PP Polyacetal POM	• - - - - N / A	- - - - - N / A	- - - - - N / A	NBB75D* - - - - - - - - - N / A



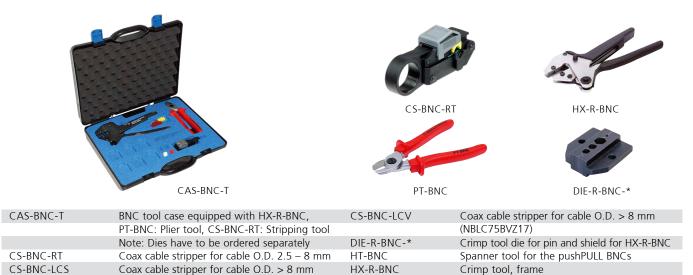
Colour Coded Accessories and Seals



JCDA	Thinged cover seals D-size chassis connectors, if 42 rated
SCCD-W	Spring-loaded cover to seals for D-size chassis connectors, IP 65 rated
NZP1RU-8	Panel 1RU housing for 8 D-shape cutouts
NZP1RU-12	Panel 1RU housing for 12 D-shape cutouts

*: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White

Assembly Tools



PT-BNC

Crimp die assignment for HX-R-BNC

(BNLC75BSX14)

Crimp die	He	ex cri mm	imp			Center pin	
	Α	В	С	Α	В	с	(square crimp)
rearTWIST HD	BNC						
DIE-R-BNC-PDC	6.47	4.53	4.06	0.255	0.178	0.160	1.6
DIE-R-BNC-PG	6.47	5.00	-	0.255	0.197	-	1.6
DIE-R-BNC-PJ	6.47	5.41	-	0.255	0.213	-	1.6
DIE-R-BNC-PS	6.47	7.01	-	0.255	0.276	-	1.6
DIE-R-BNC-PU	6.47	7.36	-	0.255	0.290	-	1.6
DIE-R-BNC-PY	6.47	8.23	-	0.255	0.324	-	1.6
DIE-R-BNC-X	9.73	-	-	0.383	-	-	1.75 (Hex Crimp)

Crimp die	He A	ex cri mm B	mp c	He A	ex crim inch B	וף c	Center pin mm (square crimp)
DIE-R-BNC-UG	7.36	5.00	-	0.290	0.197	-	1.6
DIE-R-BNC-ZPLUS	10.0	-	-	0.39	-	-	1.8
rearTWIST UHD	BNC	:					
DIE-R-BNCX-PDG	6.47	5.00	-	0.255	0.197	-	1.07
DIE-R-BNCX-PU	6.47	7.36	-	0.255	0.290	-	1.07
DIE-R-BNCX-PY	6.47	8.23	-	0.255	0.324	-	1.07

BNC pliers tool





Circular Connectors



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NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.

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Introduction

The Neutrik[®] circular connector program is a range of metal, multi-pole connectors specifically designed for industrial applications. These series provide a variety of male and female cable connectors and receptacles that can be terminated by soldering and crimping or to printed circuit boards. An easy to use and reliable quick-lock system ensures a perfect connection and cannot be released accidentally. The circular connectors offer the Neutrik[®] unique chuck type strain relief and a reinforced housing for robust dependability.

The Neutrik[®] industrial connector range also features a unique power connector for single phase applications up to 32 A.

The main areas of application are in the measurement, test and control, automotive and machine tool industry as well as medical technology.



powerCON TRUE1















ENEC certified

Ergonomic quick lock

Bushing with securing key and sealing

Overmolded ready made cable

Screw terminals

1/4" flat tabs

powerCON TRUE1 – Lockable 16 A single phase connector





NAC3MX-W



NAC3MPX



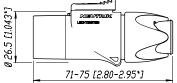


NAC3FPX

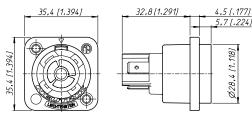
NAC3PX

- True mains connector with breaking capacity (CBC)
- Lockable 16 A (acc. ENEC, VDE) / 20 A (acc. single phase connector
- Complete system with inlet and outlet connectors
- Unique duplex chassis connector combines inlet and outlet coupler
- IP 65 water resistant ready-made cord sets
- ENEC certified according to IEC 60320
- Easy and reliable locking system
- UL recognized components

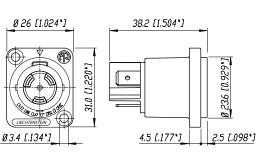
NAC3MX-W

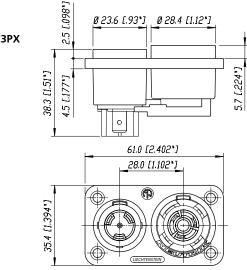


NAC3FPX



NAC3PX







NAC3MPX

Ordering Information

Cable Connector

NAC3FX-W	Mains cable connector, female CBC, screw terminals, IP 65
NAC3MX-W	Mains cable connector, male CBC, screw terminals, IP 65

Chassis Connector

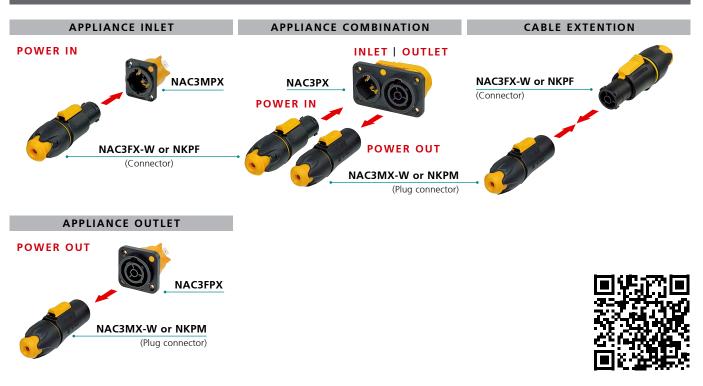
NAC3FPX	Mains chassis connector female CBC, 1/4" flat tab terminals, power outlet
NAC3FPX-ST	Mains chassis connector female CBC, screw terminals, power outlet
NAC3MPX	Mains chassis connector male CBC, 1/4" flat tab terminals, power inlet
NAC3PX	Mains chassis duplex, 1/4" flat tab terminals

Accessories



HIAC	Hand tool to tighten the powerCON IRUE1 bushing
SCDP-*	D-Size sealing gaskets, colour coding (*: <u>0- black, 2- red, 4-</u> yellow, <u>5- green, 6- blue,</u> 9- white)
SCNAC-PX	Sealing cover NAC3PX, IP 65
SCNAC-FPX	Sealing cover for NAC3FPX, IP 65
SCNAC-MPX	Sealing cover for NAC3MPX, IP 65

Connector Assignment





Specification READY-MADE POWER CORDS

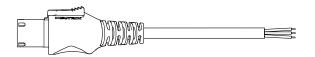
Ready-made overmolded power cord in protection class IP65. The cable utilizes standard duty cord with 3 conductors with cross section 1.5 mm² or AWG 12.

Cables are equipped with Neutrik powerCON TRUE1 NAC3FX-W and NAC3MX-W for extention cables, with an open end for termination of local connectors for "power in" supply cables or a right-angled Schuko plug. Other local connectors on request.

Cables are available in different lengths.

International Cord

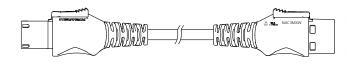
International Power Cord 16 A / 250 VAC



10 PE

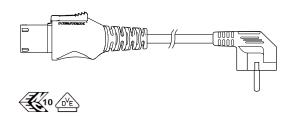
Plug / end termination	Neutrik NAC3FX-W / stripped open end
Approvals	ENEC, VDE
Standard length	1 m, 1.5 m, 2 m, 3 m, 5 m
Conductor size	3 x 1.5 mm ²
Cable type / color / Nom. O.D.	H07RN-F3G1.5 / black / 9.6 mm
Part Number e.g.	NKPF-NC-A-3
Cable type / color / Nom. O.D.	H05VV-F3G1.5 / black / 8.3 mm
Part Number e.g.	NKPF-NC-B-1

International Extension Cord 16 A / 250 VAC



Plug / end termination	Neutrik NAC3FX-W / Neutrik NAC3MX-W	
Approvals	ENEC, VDE	
Standard length	0.5 m, 1 m, 1.5 m	
Conductor size	3 x 1.5 mm ²	
Cable type / color / Nom. O.D.	H07RN-F3G1.5 / black / 9.6 mm	
Part Number e.g.	NKPF-M-A-0.5	
Cable type / color / Nom. O.D.	H05VV-F3G1.5 / black / 8.3 mm	
Part Number e.g.	NKPF-M-B-1	

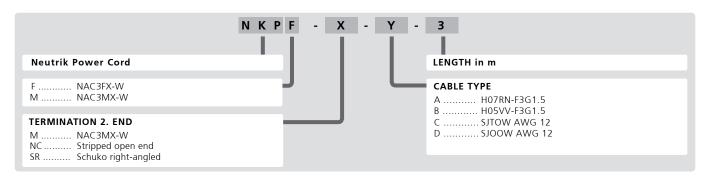
International Power Cord 16 A / 250 VAC



Plug / end termination	Neutrik NAC3FXW / SCHUKO RA Plug
Approvals	ENEC, VDE
Standard length	1 m, 1.5 m, 2 m, 3 m, 5 m, 10 m
Conductor size	3 x 1.5 mm ²
Cable type / color / Nom. O.D.	H07RN-F3G1.5 / black / 9.6 mm
Part Number e.g.	NKPF-SR-A-1
Cable type / color / Nom. O.D.	H05VV-F3G1.5 / black / 8.3 mm
Part Number e.g.	NKPF-SR-B-1

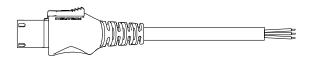


Cable Part Number Breakdown



US Cord

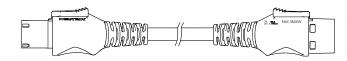
US Power Cord 20 A / 250 VAC



c Ru s

Plug / end termination	Neutrik NAC3FXW / stripped open end
Approvals	UL, cUL
Standard length	1 m, 1.5 m, 2 m, 3 m, 5 m
Conductor size	3 x 12 AWG
Cable type / color / Nom. O.D.	SJTOW / black / 11.3 mm
Part Number e.g.	NKPF-NC-C-5
Cable type / color / Nom. O.D.	SJOOW / black / 11.3 mm
Part Number e.g.	NKPF-NC-D-3

US Extension Cord 20 A / 250 VAC



Plug / end termination Neutrik NAC3FXW / Neutrik NAC3MXW Approvals UL, cUL Standard length 0.5 m, 1 m, 1.5 m Conductor size 3 x 12 AWG Cable type / color / Nom. O.D. SJTOW / black / 11.3 mm Part Number e.g. NKPF-M-C-1 SJOOW / black / 11.3 mm Cable type / color / Nom. O.D. Part Number e.g. NKPF-M-D-1

c**W**us



powerCON











Quick lock

Neutrik hologram

3/16" flat tabs

Locking area on chassis connector

powerCON - Locking 3 Pole Power Connectors



NAC3FCA

NAC3MPA-1

• Lockable 3 pole single phase equipment (AC) connector

• Colour coded for easy identification, powerCON offers power-in

(blue) and power-out (grey) versions with different keying to

• High current capacity, rated at 20 A / 250 V ac

avoid the possibility of intermating

• Fast and easy locking system

• Extremely robust and reliable

VDE certified (Reg. No. 6360), SEV approved (No. 96.1 10096)

• Excellent cable retention



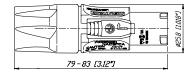
NAC3FCB



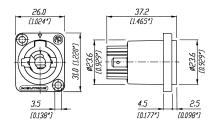


NAC3MPB-1

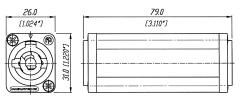
NAC3FCA(B)

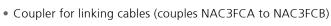


NAC3MPA(B)-1



NAC3MM-1





• UL, cUL recognized components (file no. E 135070)

• New latch design for easier handling and secure locking



Ordering Information

NAC3FCACable connector, quick lock with securing lever, A-type for power inlet, screw terminalsNAC3MPA-1Air tight chassis connector, A-type for power inlet, flat tab terminals, blueNAC3MPA-1-WOTChassis connector, power-out, 3/16'' flat tab terminals, blue, without insulation dividerNAC3FCBCable connector, quick lock with securing lever, B-type for power outlet, screw terminalsNAC3MPB-1Air tight chassis connector, B-type for power outlet, flat tab terminals, greyNAC3MPB-1-WOTChassis connector, power-out, 3/16'' flat tab terminals, grey, without insulation dividerNAC3MPB-1-WOTChassis connector, power-out, 3/16'' flat tab terminals, grey, without insulation dividerNAC3MM-1Coupler for linking cables (couples NAC3FCA to NAC3FCB)

Accessories



NLFASTON	FASTON® receptacle for tabs with "positive lock" for use with NL4MP, NL4MPR, NL8MPR, Pack of 100 pcs.
SCL	Plastic sealing cover to protect the connectors against dust and moisture
SCDR	Rear end protection cover for D-size chassis connector
SCDX	Hinged cover seals D-size chassis connectors, IP 42 rated
SCCD-W	Spring-loaded cover to seals D-size chassis connectors, IP65 rated
SCDP-*	D-Size sealing gaskets, colour coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)

KEYWAYS:

With the two non-interchangeable types of connectors (A type and B type) it is impossible to produce a short circuit. Mating connectors (combination) are identified by mechanical keyways and by color.



ATTENTION

The technical data of the powerCON connectors refer to connectors without breaking capacity, meaning connecting devices not to be engaged and disengaged in normal use when live or under load.







Robust metal housing

Screw-type terminals

powerCON

powerCON 32 A Connectors



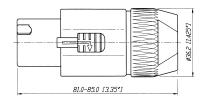
NAC3FC-HC

- Locking single phase AC appliance coupler
- High current capacity (32 A rated)
- Fast and easy locking system
- Excellent cable handling and protection
- Extremely robust and reliable
- 250 V ac, 32 A single-phase (for ambient temperatures up to 35 °C)
- Premating contact for protective earth
- Locking system to prevent unintentional disengagement
- Cable O.D. range: 8 20 mm
- Wiring with screw-type terminals for wires 2.5 to 6.0 mm² (AWG 14 - 10)

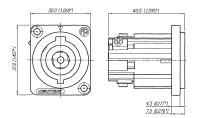


NAC3MP-HC

NAC3FC-HC



NAC3MP-HC



Ordering Information

NAC3FC-HC Cable connector, quick lock with securing lever, screw terminals NAC3MP-HC Fast and easy locking system, screw-type terminals



Specification		powerCON TRUE1	powerCON Series	32 A powerCON Series
Electrical				
Number of contacts	2 + PE	•	•	•
Rated current per contact		20 A rms ¹⁾	20 A rms	32 A rms
Rated voltage	250 V ac	•	٠	•
Dielectric strength	4 kV ac	•	•	•
Contact resistance	≤ 3 mΩ	•	•	•
Insulation resistance after	> 0.1 GΩ	•	•	•
damp heat test (IEC 68-2-30)				

Mechanical

Retention method	Quick lock	•	•	•
Cable O.D. range		6 – 12 mm	6 – 15 mm ²⁾	8 – 20 mm
Wiring	Cable: screw type terminals	•	•	•
	1.	0 - 2.5 mm ² / AWG 12	2.5 mm ² / AWG 14	2.5-6 mm ² / AWG 14-10
	or soldering	•	•	•
	Chassis: flat tabs for Faston (4.8 x 0.5 mr	n) -	•	-
	(6.35 mm x 0.8 mm)	•	-	-
	or soldering	•	•	•
	screw type terminals	-	•	•

Material

Housing cable connector		PA 6 30% GR	PA 6 30% GR	PA 6 30% GR
Housing receptacle		PA 6.6 30% GR	PA 6.6 30% GR	PA 6.6 25% GR
Insert		PA 6.6 30% GR	PA 6 30% GR	PA 6.6 25% GR
Contacts	Female:	CuSn0.2	CuZn39Pb3	CuZn39Pb3
	Male:	CuNi1Si0.2	CuNi1Si0.2	CuSn0.2
Contact surface		2 µm Ag plated	4 µm / 2 µm Ag plated	4 µm Ag
Chuck POM		•	•	•

Environmental

Flammability	UL 94 HB	-	•	 plug housing
	UL 94 V-0	•	•*	●*
Temperature range:	-30 °C to +80 °C	•	•	70 °C
Protection class (mated)		IP 65	IP 20	IP 2X unmated
Safety Requirements	EN / IEC61984	-	•	•
	IEC 60320	•	-	-
Solderability complies with	IEC 68-2-20	•	•	-

¹⁾ : Appliance coupler acc. IEC 60320 limited to 16 A ac

²⁾ : Cable O.D. range limited to 6 - 14 mm / acc. VDE

* : Receptacle

FASTON[®] is a trademark of AMP Inc.









nanoCON

Connector locking

PCB receptacle

Panel mount receptacle

nanoCON – 3 Pole Subminiature Connectors





NSC3F

NP3F-H



NP3M-V





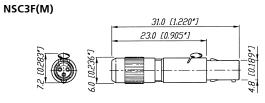
NR3M-S

NR3F-S

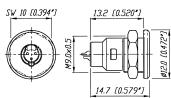
- World's smallest circular lockable multipole connector
- Robust metal housing with gold plated contacts
- Male and female receptacles for vertical or horizontal PCB mount or solder termination
- Cable connector and receptacle with interchangeable male and female inserts
- Reliable and versatile in applications like medical equipment, control systems, sensors or audio applications such as miniature and wireless microphones and portable mixers
- Pre-mating contact 1



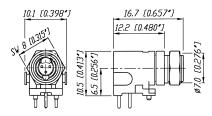








NP3F(M)-H



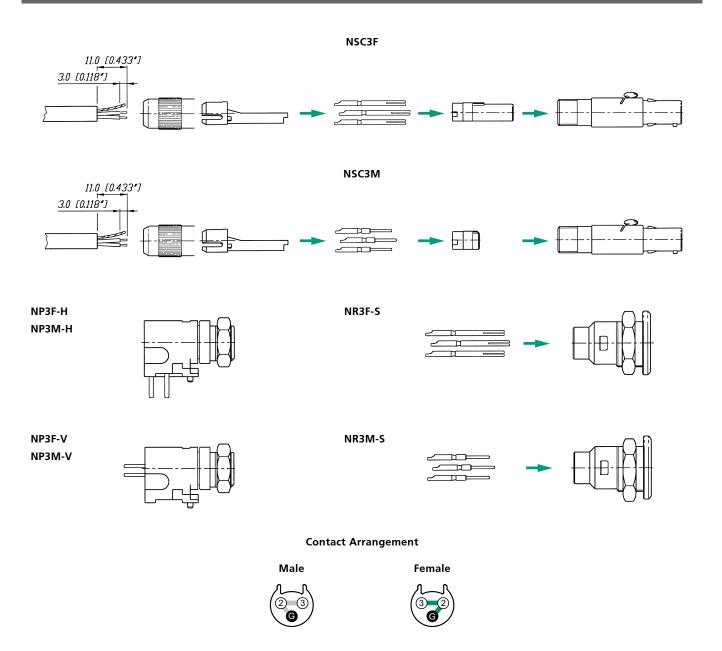


nanoCON

Ordering Information

Female		Male	
NSC3F	Cable connector, chuck principle, solder contacts	NSC3M	Cable connector, chuck principle, solder contacts
NR3F-S	Chassis connector panel mount, solder contacts	NR3M-S	Chassis connector panel mount, solder contacts
NP3F-H	Chassis connector horizontal PCB mount	NP3M-H	Chassis connector horizontal PCB mount
NP3F-V	Chassis connector vertical PCB mount	NP3M-V	Chassis connector vertical PCB mount

Ordering Information











miniCON

Push Pull locking

Gold solder contacts

Horizontal PCB mount

miniCON - 12 Pole Miniature Connectors





MSCM12

MMC* (modulares System)



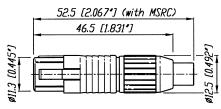


MRF12

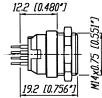
MPF12-H

- Up to 12 pole miniature connector
- Complete set or modular system
- Push-pull self-locking system
- Precisely machined, rugged all metal design
- Fully loaded male and female receptacles for horizontal or vertical PCB mount
- Gold plated contacts, crimp or solder, velour chromium housing
- Special crimp type strain relief establishes an ideal coaxial connection of the cable shield to the connector shell for best EMC shielding
- Easy assembly: contact soldering in disassembled condition avoids awkward wiring of high density contacts
- Interchangeable insert (male-female)

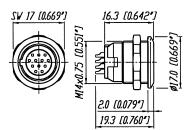
MSCF(M)12 (+MSRC)



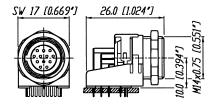




MRF(M)12



MPF(M)12-H





MPF(M)12-V

Ordering Information for complete miniCON set

Complete set (consisting of housing, insert, 12 contacts and chuck for cable connector)

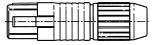
Female		Male
MSCF12 (Cable connector, chuck principle, solder contacts	MSCM12
MRF12 F	Receptacle panel mount, solder contacts	MRM12
MPF12-H F	Receptacle horizontal PCB mount	MPM12-

MSCM12 Cable connector, chuck principle, solder contacts MRM12 Receptacle panel mount, solder contacts MPM12-H Receptacle horizontal PCB mount MPM12-V Receptacle vertical PCB mount

MSCF(M)12

MPF(M)12-V

MPF(M)12-H

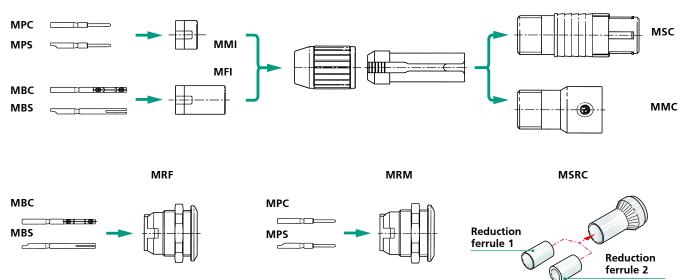


MPF12-V Receptacle vertical PCB mount





Ordering Information for modular miniCON system



Housing and insert pre-assembled, contacts must be ordered separately.

Modular system					
Female		Male			
MFI	Insert for cable connector	MMI	Insert for cable connector		
MBC	Crimp contacts for cable connector and receptacle	MPC	Crimp contacts for cable connector and receptacle		
MBS	Solder contacts for cable connector and receptacle	MPS	Solder contacts for cable connector and receptacle		
MRF	Receptacle housing and insert pre-assembled	MRM	Receptacle housing and insert pre-assembled		
MMC	Cable connector extension, incl. chuck (for male and	female)			
MSC	Cable connector housing, incl. chuck (for male and female)				
MSRC	Set of strain relief crimp version (consisting of crimp	ferrule & re	eduction ferrule 1 + 2, tools see page 130)		









Push Pull locking

All metal housing

Colored bushing available

neutriCON - Versatile Circular Connectors







-

• Complete set or modular system for any desirable configuration

connection of the cable shield to the connector shell for best

• Precise and robust all metal housing absorbs vibration forces

• Contact configuration can be selected from 1 to 8 contacts

• Special crimp type strain relief establishes an ideal coaxial

OSC8M-Ni



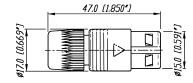


ORP8F-Ni

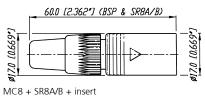
ORP8M

neutriCON

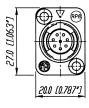
OSC8F / OSC8M

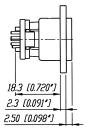


MODULAR SYSTEM



ORP8F / ORP8M





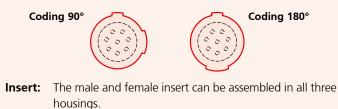


and protects contact inserts

Easy, fast and screwless assemblyPush-pull self-locking system

EMC shielding

Polarization



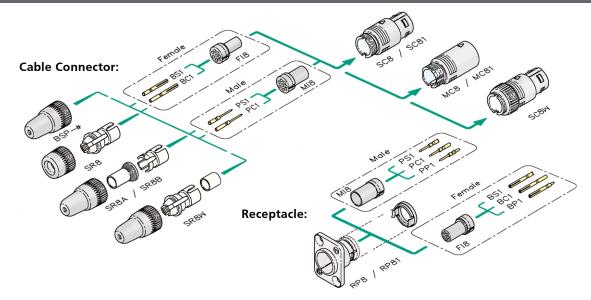


Ordering Information for complete neutriCON set

Complete set (consisting of housing, insert, 8 contacts and chuck for cable connector)

OSC8F	Female cable connector, chuck principle, black housing, solder contacts
OSC8F-Ni	Female cable connector, chuck principle, nickel housing, solder contacts
OSC8M	Male cable connector, chuck principle, black housing, solder contacts
OSC8M-Ni	Male cable connector, chuck principle, nickel housing, solder contacts
ORP8F	Female panel mount receptacle, black housing, solder contacts
ORP8F-Ni	Female panel mount receptacle, nickel housing, solder contacts
ORP8M	Male panel mount receptacle, black housing, solder contacts
ORP8M-Ni	Male panel mount receptacle, nickel housing, solder contacts

Ordering Information for modular neutriCON system



Modular system

Female		Male			
FI8	Insert for cable connector and receptacle	MI8	Insert for cable connector and receptacle		
BS1	Solder contact	PS1	Solder contact		
BC1	Crimp contact	PC1	Crimp contact		
BP1	PCB contact	PP1	PCB contact		
SC8	Cable housing, black coated, 180° coding	MC8	Mating cable housing, black coated, 180° coding		
SC8-Ni	Cable housing, nickel coated, 180° coding	MC8-Ni	Mating cable housing, nickel coated, 180° coding		
SC81	Cable housing, black coated, 90° coding	MC81	Mating cable housing, black coated, 90° coding		
SC81-Ni	Cable housing, nickel coated, 90° coding	MC81-Ni	Mating cable housing, nickel coated, 90° coding		
SC8W	Cable housing, black coated, 180° coding, waterproc	of multipin	connector according IP54		
RP8	Receptacle, black coated, 180° coding				
RP8-Ni	Receptacle, nickel coated, 180° coding				
RP81	Receptacle, black coated, 90° coding				
RP81-Ni	Receptacle, nickel coated, 90° coding				
SR8	Bushing and chuck type strain relief (standard)				
SR8A	Crimp type strain relief for cable O.D. 3 – 3.8 mm (H				
SR8B	Crimp type strain relief for cable O.D. 6 – 7 mm (Hex crimp 7.01 mm acc. IEC 803, see also page 130)				
SR8W	Bushing and chuck type strain relief for waterproof solution IP 54				
BSP-*	Coloured boot, available in 10 resistor colours				
	* color coding: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White				

Assembly Tools

Crimptool







MPOS-*

Modified DMC positioner (K155) Contact positioner helds contact in position while crimping.

Contact and connector assembly

acc. M22520/2-01

Crimping tool HX-CONTACT DMC crimptool AFM8



+



Crimptool HX-R-BNC

Neutrik[®] HEX crimptool

DIE-R-BNC-* Neutrik® dies for various HEX sizes.

neutriCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
SR8A	Strain relief	3 – 3.8 mm	HX-R-BNC	DIE-R-BNC-PJ	5.41 mm / IEC 803
SR8B	Strain relief	6 – 7 mm	HX-R-BNC	DIE-R-BNC-PS	7.01 mm / IEC 803
BC1	Female crimp contact	AWG 22 – 26	HX-CONTACT	MPOS-BC1	No. 5 / M22520/2-01
PC1	Male crimp contact	AWG 22 – 26	HX-CONTACT	MPOS-PC1	No. 5 / M22520/2-01

miniCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
					6 47 UE 6 6 6 6
MSRC	Crimp ferrule only	4.5 – 6 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 1	3.3 – 4.4 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 2	2.5 – 3.2 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MBC	Female crimp contact	AWG 24/0.22 mm ²		MPOS-MBC	No. 5 / M22520/2-01
MPC	Male crimp contact	AWG 24/0.22 mm ²	HX-CONTACT	MPOS-MPC	No. 5 / M22520/2-01

*: DIE-R-BNC-PJ or PS also possible



Technical Data

Specification	nanoCON Series	miniCON Series	neutriCON Series
	Series	Series	Series
Electrical			
Number of contacts	3	12 (1-12 modular system)	8 (1-8 modular system)
Rated current per contact	2 A	3 A	7.5 A (solder), 5 A (crimp)
Rated voltage	50 V ac	50 V ac	50 V ac
Dielectric strength	1000 V dc	1000 V dc	1500 Vdc
Contact resistance	\leq 12 m Ω	$\leq 8 \text{ m}\Omega$	$\leq 5 \text{ m}\Omega$
Insulation resistance after damp heat test (IEC 68-2-30)	> 1 GΩ	> 500 MΩ	> 500 MΩ
Mechanical			
Retention method	latch	Push-pull	Push-pull
Cable O.D. range	max. 3.4 mm	3 – 5 mm (grey chuck)	3 – 7 mm
		5 – 7 mm (white chuck)	3 – 3.8 mm (SR8A)
		2.5 – 6 mm	6 – 7 mm (SR8B)
		(crimp version MSRC)	
Wiring	0.2 mm ² / 24 AWG	0.5 mm ² / 20 AWG	1.0 mm ² / 18 AWG
	for solid wire	for solder	for solder
	0.14 mm ²	0.22 mm ²	0.14 - 0.34 mm ²
	26 AWG	24 AWG	22 - 26 AWG
	for stranded wire	for crimp	for crimp
Solderability complies with IEC 68-2-20	٠	•	•
Material			

Housing cable connector	CuSn4Pb4Zn4	ZnAl4Cu1 / CuZn39Pb3	ZnAl4Cu1
			gal Ni or black chrome
Housing receptacle	CuZn39Pb2	ZnAl4Cu1	ZnAl4Cu1,
			gal Ni or black chrome
Insert	PETP	PA 6.6	PBTP 15% GR
Contacts	CuZn35Pb2	CuZn35Pb2 (solder)	CuZn35Pb2 (solder)
		CuZn39Pb3 (crimp)	CuZn39Pb3 (crimp)
		CuSn6	
Contact surface	0.5 µm Au	0.2 µm AuCo	0.3 µm Au hard
			alloy over 2 µm Ni
Chuck POM	•	•	•

Environmental UL 94 HB Flammability --• Flammability UL 94 V-0 • • _ -30 °C to +80 °C • Temperature range • • Protection class (mated) IP 40* IP 5X IP 5X Safety Requirements EN/IC61984 ---

*: Receptacle

FASTON[®] is a trademark of AMP Inc.



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NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.



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Introduction

Various connector standards in the professional and semiprofessional audio and video world lead to many interconnection challenges.

Neutrik has made it a rule to serve our customers' needs in all its connector offerings and has therefore produced a variety of problem solvers.

With our adapter series we have a solution for the most known interconnection difficulties and in addition we offer modules for the most common connector types to fulfill more specific needs.

Miniature impedance balancing adapters are the answer to the most common noise and grounding problems and for customized designs we recommend our proven audio transformers in combination with our modules.

Neutrik offers a wide range of audio adapters, transformers, AES / EBU adapters and gooseneck products. From problem solvers to connection quick fixes, Neutrik has the most popular audio connectivity solutions. All Neutrik adapters and connectors are soldered with lead free RoHS compliant solder.





Adapter



XLR connector



RCA phono socket

socket Ja



Jack with locking latch

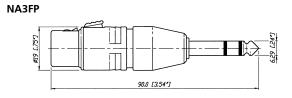


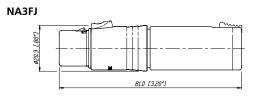
BNC socket

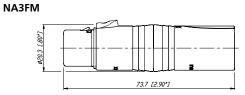
Circular Adapters



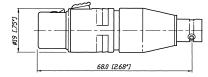
- Variety of adapters offered to interface with most connector combinations
- Professional look and compact space saving design
- Rugged diecast shell for best reliability
- Compact design and durability with Neutrik quality







NA2FBNC



Example drawing. Find more info on www.neutrik.com



Adapter



Phono socket



speakON NL4MP

3 pole XLR male

Jack with locking latch

D Shape Adapters



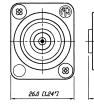
- Problem solvers for various intermating problems for professional and semi-professional applications
- Rugged aluminium extrusion housings for best reliability
- Colour coding on all RCA types

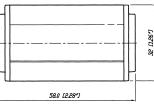
Miniature transformer balancing adapters NA2*-TX

- Audio Transformer 1:1 impedance ratio 200:200
- Low cost solution for unbalanced / balanced line conversion and passive DI applications, where no earth or gain switching is required.
- Source / Load impedance 600 / 10 K
 Max. input level @ 50 Hz at 1% THD: -3 dBu



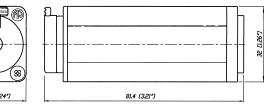






NA4MP-J





Example drawing. Find more info on www.neutrik.com



Circular Adapters

Part No.	Port 1	Port 2	Comments
NA2FBNC	3 pole XLR female	BNC socket	1)
NA2FP	3 pole XLR female	TS ²⁾ ,1/4" plug	1)
NA2FPMF	3 pole XLR female	RCA / phono socket	1)
NA2FPMM	3 pole XLR female	RCA / phono plug	1)
NA2MBNC	3 pole XLR male	BNC socket	1)
NA2MP	3 pole XLR male	TS ²⁾ ,1/4" plug	1)
NA2MPMF	3 pole XLR male	RCA / phono socket	1)
NA2MPMM	3 pole XLR male	RCA / phono plug	1)
NA3FF	3 pole XLR female	3 pole XLR female	gender conversion adapter
NA3FF-B	3 pole XLR female	3 pole XLR female	gender conversion, black plating
NA3FJ	3 pole XLR female	TRS ²⁾ ,1/4" jack	locking jack
NA3FM	3 pole XLR female	3 pole XLR male	extention adapter
NA3FMX	3 pole XLR female	3 pole XLR male	contacts 2 - 3 inverted
NA3FP	3 pole XLR female	TRS ²⁾ , 1/4" plug	
NA3JJ	stereo 1/4" jack	TRS ²⁾ , 1/4" jack	extension adapter, locking jack
NA3MJ	3 pole XLR male	TRS ²⁾ , 1/4" jack	locking jack
NA3MM	3 pole XLR male	3 pole XLR male	gender conversion adapter
NA3MM-B	3 pole XLR male	3 pole XLR male	gender conversion, black plating
NA3MP	3 pole XLR male	TRS ²⁾ ,1/4" plug	
NA5FF-B	5 pole XLR female	5 pole XLR female	gender conversion adapter, black plating
NA5MM-B	5 pole XLR male	5 pole XLR male	gender conversion adapter, black plating

D Shape Adapters

NA2BBNC-D4B	BNC socket	RCA / phono socket	colour coded yellow
NA2BBNC-D9B	BNC socket	RCA / phono socket	colour coded white
NA2F-D0B-TX	3 pole XLR female	RCA / phono socket	colour coded black ⁴⁾
NA2F-D2B-TX	3 pole XLR female	RCA / phono socket	colour coded red ⁴⁾
NA2F-J-TX	3 pole XLR female	1/4" jack	ground lifted ⁴⁾
NA2M-D0B-TX	3 pole XLR male	RCA / phono socket	colour coded black ⁴⁾
NA2M-D2B-TX	3 pole XLR male	RCA / phono socket	colour coded red ⁴⁾
NA2M-J-TX	3 pole XLR male	1/4" jack	ground lifted ⁴⁾
NE8FF	etherCON	etherCON	RJ45 coupler
NL4MMX	4 pole speakON	4 pole speakON	lockable coupler
NL8MM	8 pole speakON	8 pole speakON	lockable coupler
NAC3MM-1	3 pole powerCON	3 pole powerCON	lockable coupler
NA4FX-F	speakON NL4FX	3 pole XLR female	speaker adapter ³⁾
NA4FX-M	speakON NL4FX	3 pole XLR male	speaker adapter ³⁾
NA4LJX	speakON NL4FX	TS ²⁾ , 1/4" jack	speaker adapter ³⁾
NA4MP-F	speakON NL4MP	3 pole XLR female	speaker adapter ³⁾
NA4MP-J	speakON NL4MP	TS ²⁾ , 1/4" jack	speaker adapter ³⁾
NA4MP-M	speakON NL4MP	3 pole XLR male	speaker adapter ³⁾
NA4MP-M-X	speakON NL4MP	speakON NL4MP	speaker adapter 1+ / 1- inverted ³⁾

¹⁾: Wired according to IEC 268-12: pin 2 = signal, pin 1 and 3: connected to ground

2): TRS-Tip, Ring, Sleeve contact (stereo); TS-Tip, Sleeve contact (mono)

3): Detailed wiring info on www.neutrik.com

⁴⁾: Unbalanced / balanced line conversion, 1:1 transformer 200 Ω : 200 Ω

Adapter







3 pole XLR female receptacle

3 pole cable connector BNC chassis

AES / EBU Digital Impedance Transformer Adapters



NADITBNC-F



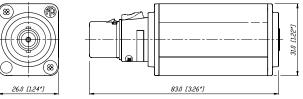
NADITBNC-FX



NADITBNC-MX

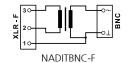
- Cost effective exceptional impedance matching adapters
- Allow long cable runs for digital audio signals via low attenuation coax lines
- Match balanced (110 Ω) to coaxial lines (75 Ω)
- Pre-wired in black anodized aluminum extrusions for increased durability
- AES/EBU adapters available with either 3 pin male or female XLR cable ends or receptacles
- Simple use, passive units

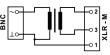
NADITBNC-FX



Technical Data

Maximum voltage / Max. power:	5 Vp-p / 250 mW
Frequency band:	0.1 MHz to 6 MHz
Insertion loss:	< 0.3 dB @ 0.1 MHz to 10 MHz
VSWR / Return loss:	< 1.1 / > 26.4 dB





NADITBNC-M

Ordering Information

Part No.	Port 1	Port 2	Comments
	Input	Output	
NADITBNC-F	3 pole XLR female chassis	female BNC chassis	110 Ω XLR input and 75 Ω BNC output
NADITBNC-M	3 pole XLR male chassis	female BNC chassis	75 Ω BNC input and 110 Ω XLR output
NADITBNC-FX	3 pole XLR female cable con.	female BNC chassis	110 Ω XLR input and 75 Ω BNC output
NADITBNC-MX	3 pole XLR male cable con.	female BNC chassis	75 Ω BNC input and 110 Ω XLR output



Adapter



5 pole male

connector



5 pole female connector



All metal housing

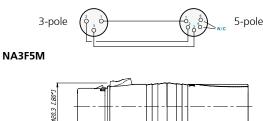
DMX Adapters



NA3F5M



- Compact XLR 3 to 5 pole adapters for lighting (DMX) applications
- Solve interconnection problems of the old (3-pole) and new (5 pole) DMX standard
- Enable usage of standard 3 pole microphone cable for DMX applications
- Based on the worldwide accepted standard XLR connectors
- Reliable and rugged diecast shell





Ordering Information DMX Adapter

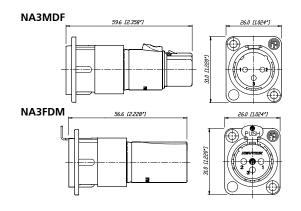




Feedthrough

NA3MDF

- 3 pole XLR feedthrough adapter
- D-flange chassis mount
- Male to female and vice versa
- Utilizes XX-components



Part No.	Port 1	Port 2	Comments	
NA3F5M NA3M5F	3 pole XLR female 3 pole XLR male	5 pole XLR male 5 pole XLR female	for DMX lighting applications for DMX lighting applications	
Ordering	Information Feedth	rough		
NA3FDM NA3MDF	3 pole XLR female 3 pole XLR male	3 pole XLR male 3 pole XLR female		









3 pole plug

SM2/2 switch

VM housing

Modules & Audio Transformers

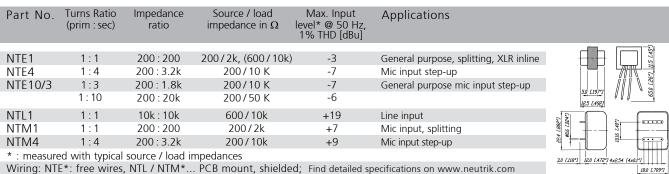


- Multifunctional modules allow to design customized adapters to suit specific needs
- Based on the X and D Series connector system
- NTE transformers and switch can be built in
- Professional look, rugged diecast shell

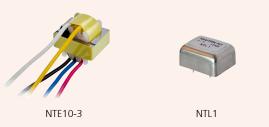
Audio Transformer

- Professional audio transformers for multiple applications, as e.g. microphone or line inputs
- Very low distortion, excellent frequency response
- Cost effective cable version for free wiring
- Fully permalloy-shielded studio versions

Audio Transformer selection Guide

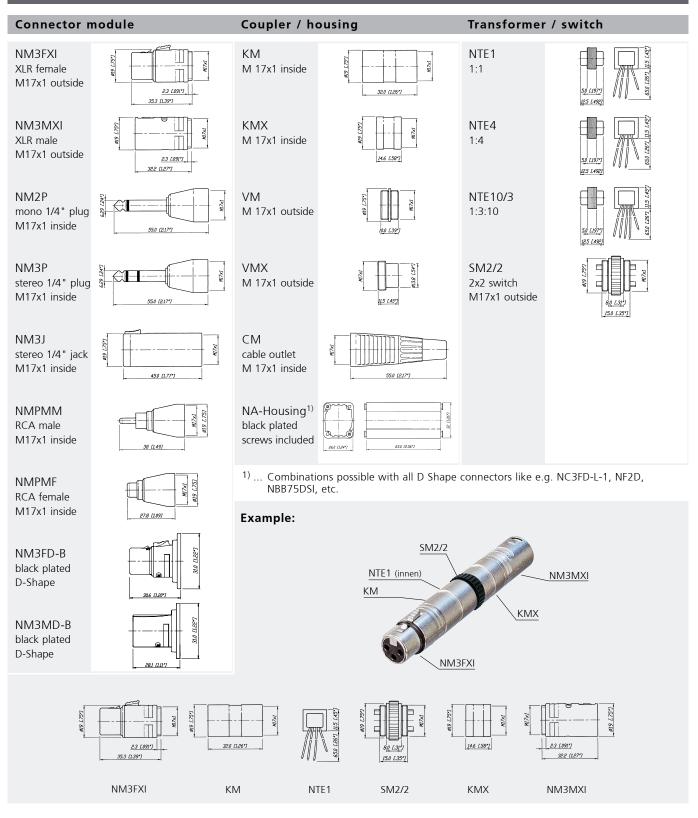


Wiring: NTE*: free wires, NTL / NTM*... PCB mount, shielded; Find detailed specifications on www.neutrik.com





Module Selection Guide



0

Goosenecks



3 pole XLR with

securing ring



Flexible spiral



Integrated cable outlet

Goosenecks

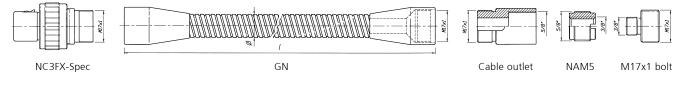


- For flexible and secure mounting of microphones, lamps etc.
- Versatile, modular system allows various combinations
- Durable stainless steel spiral, no rust, no noise, non-reflective black finish
- Theft proof microphone connection on GNS version (securing ring and fixing screw)
- Strong, flexible and noiseless goosenecks available in three lengths

Ordering Information

Part No.	Description	
GN18	M17 x 1 inside thread at both ends	(Ø 12 mm, 230 mm length)
GN36	M17 x 1 inside thread at both ends	(Ø 13 mm, 360 mm length)
GN50	M17 x 1 inside thread at both ends	(Ø 15 mm, 500 mm length)
Gosseneck sets:		
GNS18	Gooseneck set GN18, NC3FX-Spec., cable outlet, NAM5 adapter, M	17 x 1 bolt thread
GNS36	Gooseneck set GN16, NC3FX-Spec., cable outlet, NAM5 adapter, M	17 x 1 bolt thread
GNS50	Gooseneck set GN50, NC3FX-Spec., cable outlet, NAM5 adapter, M	17 x 1 bolt thread
Accessories:		
NAM4	M17 x 1 outside thread, 5/8" 27 UNS inside thread ¹⁾	
NAM5	3/8" inside thread, 5/8" 27 UNS outside thread ¹⁾	
GF1	Mounting kit: Flange \varnothing 63.5 mm including mounting bolt M17x1, 1	3 mm length 1)
MSG	Mounting bolt M17 x 1, 30 mm length ¹⁾	
	¹⁾ : Find detailed specifications on www.neutrik.com	

GNS Set consisting of:





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Patch Panels



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Introduction

Patch Panels are central switching gears between audio equipments. They are used to switch and route analog and digital audio signals from and to equipments in recording or broadcast studios, OB vans, churches, theatres, stadiums, arenas, etc.

Neutrik[®] Patch Panels are available in a varety of jack types, wiring and grounding possibilities.

Common versions accommodating Bantam TT, 1/4" A-gauge and longframe B-gauge jacks on the front rows are available.

The mechanical size is designed to fit into 1U 19" standard racks. All Neutrik patch panels offer various normalling possibilities between top and bottom row.

All Neutrik[®] Patch Panels are able to handle digital audio signals acc. AES3, 48kHz sampling rate.

NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.





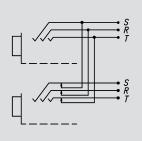
Audio Normalling

Audio Normalling is usually used with audio patch panels and is a wiring pattern in which a circuit path is established from one piece of audio equipment to another without the use of a patch cord. This pattern is then considered to be the "normal" circuit path that is desired most of the time. If a patch cord is inserted, the normal circuit path is interrupted and rerouted to a different circuit path.

Normalled patch panels are most commonly found in vertical jack pairs: the top jack is designated as the source and the bottom jack is the destination.

Normalling example: HALF NORMALLED BOTTOM ROW

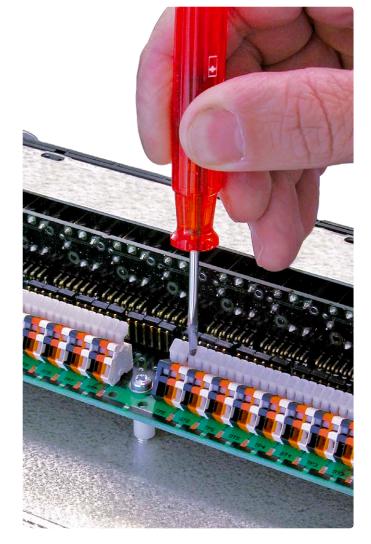
This is the most common configuration, very often



called HALF NORMALLED. In this configuration internal normalling contacts connect the top jack contact with the corresponding bottom jack contact. Inserting a plug in the bottom jack will interrupt this internal normalling connection, while inserting a patch cord

into the top jack doesn't interrupt the circuit. (Can be used to monitor the normalling circuit)

Other versions of normalling are Half Normalled Top Row, Full Normalled, Parallel and Isolated.





NPPA Series













Robust front design

Easy assembly

Jack-pair

IDC terminals

Push terminals

ELCO connectors

NPPA-Series – 96 Bantam (TT) Jacks

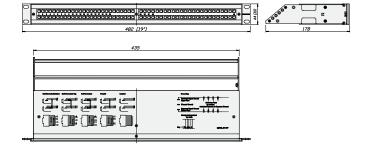


NPPA-TT-PT

- Innovative and compact patching system (just 1U high) for 19" rack mounting
- Robustly housed in a black coated steel shell
- Features 2 x 48 long life gold plated TT size (bantam) Neutrik NJ3TTA double contact point TRS jacks
- Available in all common normalling configurations (default Half Normalled Bottom)
- Qualified for analog and digital signals according to AES3, 48 kHz sampling frequency
- Remove the front panel for quick changes of the NJ3TTA-** modules for reconfiguration or repair even when "on air"
- Includes two built in cable bars and two wide channel ID strips
- PatchLink Software for printing onto labeling strips is on Neutrik website (available for PC only)



Dimensional Drawing





NDC - -----

Design Criteria

All NPPA patch panels are fitted with high quality, long life NJ3TTA gold plated double contact jacks (2x48), featuring best contact integrity. The unit, robustly housed in a black coated steel shell, is finished off with a built in cable bar and two large channel identification strips for perfect management of the system. The NPPA patch panels are an innovative and compact patching system (just 1U high) for 19" rack mounting.

Configuration

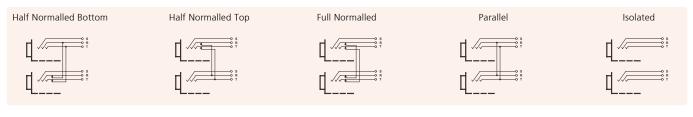
The standard version of the NPPA Panel is delivered bottom row half normalled for each jack pair by default. Further patch versions are available with fully loaded jack-pairs as:

- Full Normalled
- Half Normalled
- Isolated
- Parallel

For individual normalling single pre-configured jack-pairs are offered.

NPPA-TT-IDC is equipped with jumper blocks for individual switching configurations of each jack channel.

Note: Take care when handling digital signals. Do not use parallel configuration and avoid other parallel paths when using half normalled configurations. Parallel paths may lead to mismatching.



Grounding

The flexible grounding system provides the following versions:

- Individual: Each channel is individually grounded by its corresponding cable shield (default configuration).
- Group: Selected channel grounds are connected via the ground bus on the PCB using solder bridges and track cuts to form a group that is connected to one common cable shield.
- Central: All channel grounds (individual top and bottom row) are connected via the ground bus on the PCB using solder bridges and wired with only one cable shield.
- Chassis-Common: The same as central grounding but with the addition of the common ground bus (top and / or bottom rows) connected to the patch panel chassis by means of jumpers

Wiring Terminations

TT patch panels offer different choices of wiring:

- Spring loaded push terminals
- 56 pin Elco/Edac male connectors
- 90 pin Elco/Edac connectors
- 50 pin D-SUB connectors
- 25 pin D-SUB connectors
- IDC-Krone terminals
- Solder lugs

The spring loaded terminal blocks enable fast and easy wiring. No soldering and screwing necessary. Simply insert the stripped wire after pressing down the white key. Terminals accommodate stranded wires up to AWG 20 (0.5 mm²) and solid wires up to AWG 18 (0.75 mm²). Push terminals are gas tight connections.

www.neutrik.com

For Pin assignment of ELCO / EDAC and D-SUB connectors please see drawings on www.neutrik.com



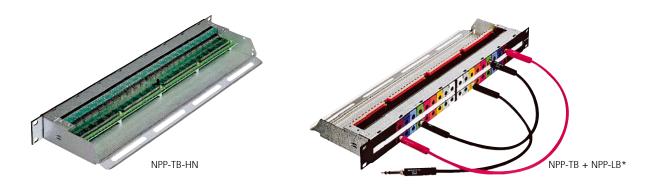




Individual colour coding

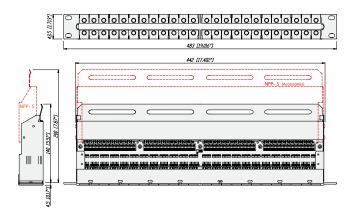
Galvanized metal housing

NPP-TB-Series - 48 B-Gauge Jacks



- Features 2 x 24 Neutrik® NJ6TB-V long frame 1/4" TRS jacks according to BPO316/MIL-P-642/2
- Very robust and compact galvanized metal housing
- Compact, cost effective system qualified for both analog and digital signals acc. AES3, 48 kHz sampling frequency
- High quality long life gold plated Neutrik jacks
- Easily programmable for any of 6 configurations with 4 grounding choices
- Rear terminations include solderless terminal blocks or solder lugs (solder for non-programmable half-normalled versions only).
- Center marking strip is removable; See Neutrik website to download PatchLink labeling software for PCs
- Color coded tabs, dust cover and rear extension strain relief bars are optional accessories

Dimensional Drawing





Design Criteria

The NPP-TB patch panels are equipped with gold plated, high quality long life NJ6TB-V Jacks for BPO/MIL style plugs. The panels are easily programmable for six switching configurations and offer a flexible grounding system. The NPP-TB patch panels are very robust and compactly designed for 19" rack mount (19" x 1U) with galvanized metal housing and a built-in cable bar on the rear for securing wires. There is a rear extension bar (NPP-S) available as an option. On the front side there is an attractive additional lettering area for each channel pair with a marking strip and individual snap-on colour coding plates.

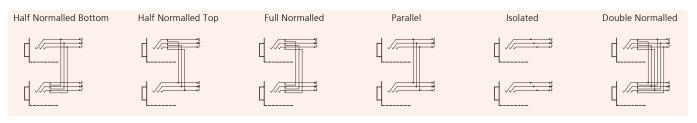
Configuration

Due to the jumper blocks capability provided, the switching configurations available per jack channel are:

- Half Normalled Bottom Row
- Full Normalled
- Parallel
- Isolated

The TB Panel is delivered in a full normalled configuration for each jack channel. A non-configurable half normalled ("-HN") bottom row version with solder lugs is also available.

NOTE: Take care when handling digital signals. Do not use Parallel configuration and avoid other parallel paths with Half / Double Normalled configurations. Parallel paths may lead to mismatching.



Grounding

The flexible grounding system allows four possibilities to fit your needs:

- Individual: Each channel ground is separately connected with the corresponding cable shield (default configuration).
- Group: Some channel grounds are PCB connected by making soldering joints on the PCB and by cutting tracks respectively to form a group that is connected to one common cable shield.
- Central: All channel grounds are PCB connected by making soldering joints and wired with only one cable shield.
- Chassis-Common: Same as central grounding with additional connection of the common ground to the Patch Panel chassis by means of a jumper.

Wiring Terminations

TB patch panels are available with:

- Spring loaded push terminals (NPP-TB)
- Solder lugs (NPP-TB-HN)

The spring loaded terminal blocks are fast and easy to connect and disconnect the wires. No soldering and screwing necessary. Simply insert the stripped wire after pressing down the white key. Accommodates stranded wires up to AWG 20 (0.5 mm²) and solid wires up to AWG 18 (0.75 mm²).



NYS Series







Ruggedized metal housing

Imprinted grounding instruction

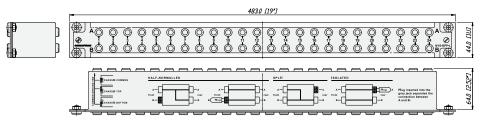
Module NYS-SPCR1

1/4" Patch Panel



- Individual grounding available for each channel separately
- Ruggedized metal housing
- Improved contact design minimises wear on mated plugs
- Economic and versatile designed 1/4" modular patch panel with 2 rows of jack sockets
- 48 balanced channels with fully PCB wired jack (24 vertical PC boards), 24 front pairs and corresponding 24 rear pairs
- Jack PC card contains 4 balanced 1/4" jacks with non-tarnishing contacts, is held securely in place without the use of nuts no little pieces to drop, break or lose
- Easy to change configuration by just flipping individual PC board
- Normalling jack is coloured grey for easy identification
- 4 designation strips included for front and rear panel

Dimensional Drawing



Design Criteria

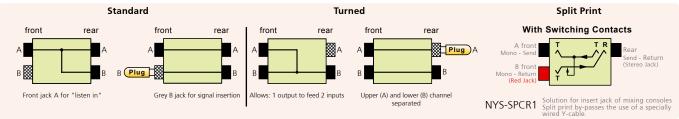
The NYS-SPP-L1 is a economical and remarkable sleek designed 1/4" modular patch panel for 19" rack mount (19" x 1U) with a reinforced metal housing. Each of it's 48 PCB wired balanced channels (24 front pairs and corresponding 24 rear pairs) can either be grounded separately or in groups of inividually chooseable channel numbers (detailed information see below).

The PCBs are held securely in place by being clamped between the front and the rear panel, this grants an easy reconfiguration of the patch panel without the danger of loosing any small parts (e.g. nuts). The grey jack serves as an easy and distinguishable normalling identification.

Configuration

Standard configuration, when delivered, is Half Normalled bottom row. The configuration can easily be changed by just flipping the individual PCB. Inserting a plug into the grey jack will always isolate the top against the bottom row. Alternative solution for send / return applications by use of NYS-SPCR1 module (see accessories below).

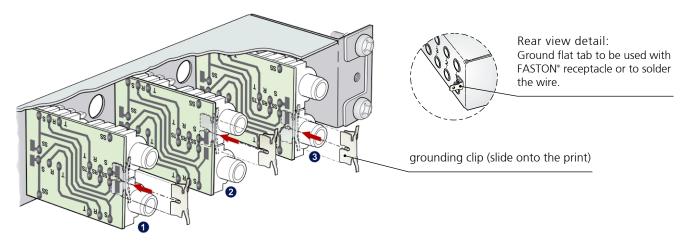
The following configurations are available:



Grounding

The flexible grounding system, applicable for each channel separately by simply attaching the loose supplied grounding clips to the grounding pad of the corresponding channel, offers the following alternatives:

- Individual (without grounding clip): Each channel ground (sleeve contact) is connected to the dedicated ground contact of the incoming 1/4" plug only. This is the standard configuration for delivery.
- Chassis common ①: The relevant channel grounds (sleeve contacts; top and bottom row) is connected to the ground flat tab via grounding clip and chassis.
- Chassis top 2: The dedicated top channel ground (sleeve contact) is connected to the ground flat tab via grounding clip and chassis.
- Chassis bottom ③: The dedicated bottom channel ground (sleeve contact) is connected to the ground flat tab via grounding clip and chassis.



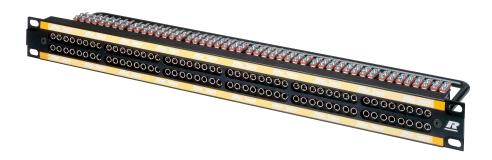




Standard 4.4mm bantam jack

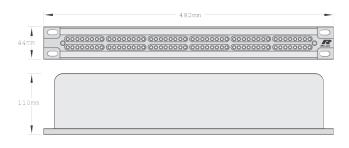
Long frame jack socket

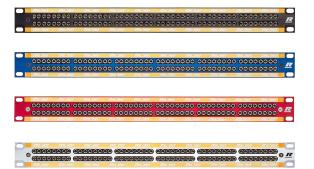
MA 96 and XPM 96 Bantam Patchbays



- Robust designed patchbay to accept standard 4.4 mm Bantam jack connectors (acc. MIL-D-642/13)
- Fitted with 96 Rean die-cast jack sockets
- Constructed from rigid aluminium extrusion which includes 2 integral slots for designation strips
- 96 channels grouped in two row 12 x 8 stereo jacks
- XPM96 features traditional 2 row, 4 x 24 stereo jacks
- Available in 4 colours: black, silver, red or blue
- Suitable for audio, broadcast, data and industrial applications XPM96

Dimensional Drawing











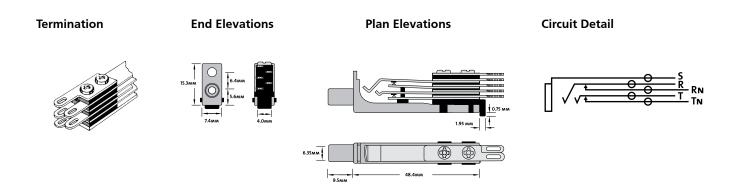
Die-cast frame

Tinned tags

MAJ 501 Bantam Jack Socket



- 5-point Bantam jack socket (Tip, Ring, Sleeve, Tip Normal, Ring Normal)
- Rigid nickel plated die-cast frame, featuring considerable frame strength eliminating physical distortion when plug is inserted
- Nickel-silver spring contacts, palladium plated switch contacts
- Tinned tags for easy soldering









B-Gauge patchbay

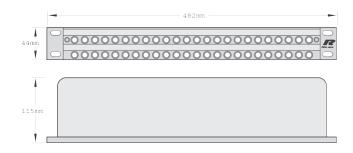
48 way longframe

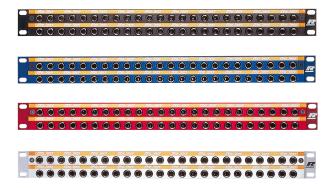
LF 48 B-Gauge Patchbays



- 48 way Longframe B-Gauge patchbay
- Accepts both European BPO 316 and US MIL-P-642/2 style phono plugs
- 2 rows of 24 LF501 jack connectors
- Jack designed from rigid nickel-plated die-cast aluminium with nickel-silver spring contacts
- Available in 4 colours: black, silver, red or blue
- Reliable support for connecting looms by steel lacing bar

Dimensional Drawing









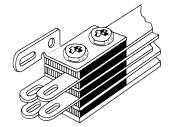
Solder lugs

LFJ 501 B-Gauge Jack Socket

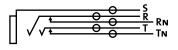


- 5-point B-Gauge jack socket
- Nickel-silver spring contacts
- Palladium plated switch contacts
- Durable die-cast body with bright nickel plated nose
- Termination solder lugs

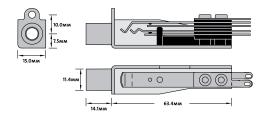
LFJ 501



Circuit Detail



Plan Elevations





Technical Data

Specifications		NPPA Series	NPP-TB Series	NYS Series	MA 96 and XPM 96	LF 48 Series
		Jelles	261163	Series	XI W 90	Jelles
Electrical						
		< 20 ··· 0	(10	(10 0	< 24 m O	< 20 m O
Contact resistance: Switch contact resista		< 20 mΩ < 25 mΩ	< 10 mΩ	< 10 mΩ < 10 mΩ	< 24 mΩ < 26 mΩ	< 20 mΩ < 15 mΩ
		< 25 mΩ	< 15 mΩ	< 10 mΩ	< 26 mΩ	< 15 mΩ
Insulation resistance:		•	•	•	•	•
Dielectric strength:	> 500 V ac	•	•	•	•	•
-	> 1`000 V dc	•	•	•	-	-
Frequency range:	DC to > 50 MHz	•	•	•	•	•
Channel separation:	> 100 dB @ 10 kHz, 600 Ω terminated		•	•	•	•
	> 40 dB @ 6 MHz, 110 Ω terminated	d •	•	•	•	•
AES / EBU Signals (dig		•	•	•	•	•
Handles Phantom Pov	ver:	•	•	•	•	•
Mechanical						
Life time:	> 20`000 cycles	-	-	-	•	•
	> 10`000 cycles	-	-	•	-	-
	> 5`000 cycles	•	•	-	-	-
Insertion force:	< 25 N	-	-	-	•	•
	< 20 N	-	-	•	-	-
	< 10 N	•	•	-	-	-
Withdrawal force:	> 10 N	•	•	•	•	•
	> 8 N	•	•	_	_	_
Dimensions:	482 x 44 mm (19" x 1U)	•	•	•	•	•
Depth:	402 X 44 Min (15 X 10)	- 178 mm (7 ")	140 mm (5.5")	64 mm (2.52")	110 mm (4.33")	- 115 mm (4.53")
Dimension Patch Box:	: 168 x 77 x 77 mm (6.0 x 3	. ,	14011111(3.57)	041111(2.52)	11011111(4.55)	1151111(4.557)
Temperature range:	- 30 °C to + 80 °C		•	•	•	•
Mating plug:	- 50 C 10 + 80 C	4.4 mm (0.173")	B Course 1/4" plug	A-Gauge 1/4" plug	4.4 mm (0.173")	Longframe
Mating plug.		Bantam plug	b-Gauge 1/4 plug	acc. EIA RS-453	Bantam plug	B-Gauge plug
	according	MIL-P-642/13	BPO316/MIL-P-642/2		MIL-P-642/13	BPO316/MIL-P-642/
	flat tab for 3/16"	IVIIL-P-042/15	DPU310/IVIIL-P-042/2		IVIIL-P-042/15	DPU510/IVIIL-P-042/2
Grounding wiring	FASTON® (4.8 x 0.8 mm)	-	-	•	-	-
Material						
Housing:		Steel	Steel	Steel	anodised Al	anodised Al

Front panel:	anodised Al	Pocan B 3225	Steel	anodised Al	anodised Al
Lacing bar:	Brass	Steel	N/A	coated steel	coated steel
Jack housing:	PA 66 blend	PA 6.6 30% GR	ABS	diecast alloy	diecast Al
Jack contacts:	CuSn6	CuSn6	CuSn6	Ni-Silver	Ni-Silver
	Tribor [®] plated	Au plated	tin plated	(CuNi18Zn20)	(CuNi18Zn20)
Switch contacts:	Au plated	Au plated	Bronze, tin plated	Palladium plated	Palladium plated
Grounding clip:	-	-	CuSn6, SnCu plated	-	-

Operating Accessories

Labeling software

Patchlabel is a program to Label Patch Panel designation strips.

Free Download of Patch Label Program (ZIP – 347 KB) on the Web "www.neutrik.com" section "Patch Panels".





Part Number Descrip

NPPA Series		Configuration*	Wiring	Grounding
NPPA-TT-PT**	2 x 48 jacks	half normalled bottom	288 push terminals	individual
NPPA-TT-PT-FN**	2 x 48 jacks	full normalled	288 push terminals	individual
NPPA-TT-PT-HNT**	2 x 48 jacks	half normalled top row	288 push terminals	individual
NPPA-TT-PT-I**	2 x 48 jacks	isolated	288 push terminals	individual
NPPA-TT-PT-P**	2 x 48 jacks	parallel	288 push terminals	individual
NPPA-TT-S**	2 x 48 jacks	half normalled bottom	288 solder terminals	individual
NPPA-TT-S-FN**	2 x 48 jacks	full normalled	288 solder terminals	individual
NPPA-TT-S-HNT**	2 x 48 jacks	half normalled top row	288 solder terminals	individual
NPPA-TT-S-I**	2 x 48 jacks	isolated	288 solder terminals	individual
NPPA-TT-S-P**	2 x 48 jacks	parallel	288 solder terminals	individual
NPPA-TT-PT-PH	2 x 48 jacks	half normalled bottom	288 Phoenix push terminals	individual
NPPA-TT-SD50	2 x 48 jacks	half normalled bottom	4 x 50 pole D-SUB	groups of 12 channels
NPPA-TT-SD25	2 x 48 jacks	half normalled bottom	12 x 25 pole D-SUB	groups of 12 channels
NPPA-TT-E56	2 x 48 jacks	half normalled bottom	6 x 56 pole ELCO male connectors	individual
NPPA-TT48-E56	2 x 24 jacks	half normalled bottom	3 x 56 pole ELCO male connectors	individual
NPPA-TT-E90	2 x 48 jacks	half normalled bottom	4 x 90 pole ELCO male connectors	individual
NPPA-TT-IDC	2 x 48 jacks	programmable by jumpers	288 IDC terminals (KRONE-Type)	individual

* : fully loaded jack pairs only, to built patch panels with mixed configuration use pre-config jackpairs

**: in case of need added normalling bars can be used to reconfigure up to 4 jackpairs

Pre-configured Jack-Pairs

NJ3TTA-4-HNB	blocks of 2 channels	half normalled bottom row	cover ident color: clear
NJ3TTA-4-HNT	blocks of 2 channels	half normalled top row	cover ident color: yellow
NJ3TTA-4-FN	blocks of 2 channels	full normalled	cover ident color: green
NJ3TTA-4-P	blocks of 2 channels	parallel	cover ident color: red
NJ3TTA-4-I	blocks of 2 channels	isolated	cover ident color: orange

Accessories

NPPA-SStrain Relief barNKTT*Patch cords with NP3TT-1 plugs. Available in black, blue, green, red and yellow. Lenght: 30, 40, 60, 90, 120 cm

NPP-TB Serie	2 5	Configuration	Wiring
NPP-TB NPP-TB-HN	2 x 24 TB (BP0316/MIL-P-642/2) jacks 2 x 24 TB (BP0316/MIL-P-642/2) jacks	programmable for all commonly used configurations half Normalled Bottom Row	push terminals solder tags
Accessories			
NPP-LB-** NPP-C	Metal dust cover	s, pack of 100 per color, 9 different colors	
NPP-S NKTB*	A second rear extention bar for fix the Patch cord with NP3TB plugs. Available	very large cables. in black and red. Length: 30, 40, 60, 90 cm	

NKTB* Patch cord with NP3TB plugs. Available in black and red. Length: 30, 40, 60, 90 cm **: 0 - Black, 1- Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White; Must be ordered in multiples of 100.

NYS SPPL

NYS-SPP-L1	1/4" Patch Panel, 2 x 24 channels, configuration half normalled, isolated, split
NYS-SPCR1	Send / Return module (Split Print)



Part Number Descri

MA96 and XPM-96

MA96-1A	96 way, Red front panel – grouped 12 x 8
MA96-1D	96 way, Blue front panel – grouped 12 x 8
MA96-10	96 way, Black front panel – grouped 12 x 8
MA96-1S	96 way, Silver front panel – grouped 12 x 8
XPM-96SS	96 way, Silver front panel – grouped 4 x 24
XPM-96SO	96 way, Black front panel – grouped 4 x 24

Bantam Jack Socket

MAJ-501 Standard Solder Tag

LF48 Longframe B-Gauge Patchbays

LF48-1D48 way, Blue front panelLF48-1O48 way, Black front panel	LF48-1A	48 way, Red front panel
	LF48-1D	48 way, Blue front panel
	LF48-10	48 way, Black front panel
LF48-1S 48 way, Silver front panel	LF48-1S	48 way, Silver front panel
LFJ-501 Longframe B-Gauge jack socket, standard solder tag	LFJ-501	Longframe B-Gauge jack socket, standard solder tag

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Digital Wireless Audio Network



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Introduction

The vision of a wireless transmission system between two connectors and to transmit audio signals in studio quality has led to the development of the innovative DIWA technology. DIWA (Digital Wireless Audio) stands for digital data transmission without data compression but provides high-level sound quality. Though wireless, the audio signals are transmitted by DIWA in studio quality. As a result no compromise from an audio point of view needs to be made in situations where no cable can be used.



NEUTRIK[®], crystalCON[®], etherCON[®], maxCON[®], miniCON[®], nanoCON[®], neutriCON[®], opticalCON[®], powerCON[®], Profi[®], rearTWIST[®], silentPLUG[®], speakON[®], DIWA[®], XIRIUM[®], are registered trademarks of Neutrik AG.



DIWA – the technology

With XIRIUM X, a digital wireless audio network based on DIWA technology, Neutrik sets a new standard in professional wireless audio transmission. XIRIUM X combines digital reception and transmission facilitating the highest possible sound quality, unique reliability and outstanding handling in one network. Neutrik, known as the global leader in manufacturing connection technology for the professional entertainment industry becomes the competent partner for applications in the areas of copper connectors, fiber optic systems and wireless solutions.

XIRIUM X – the product

With XIRIUM X Neutrik introduces a new, innovative product to the market allowing for an easy entry into the DIWA technology. With two devices only, namely the transmitter (XTX) and the receiver (XRX), a wireless audio transmission can be established replacing audio cables cost effective in a few seconds.

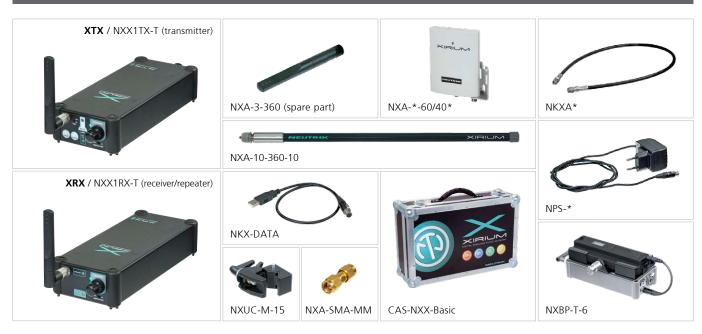


XIRIUM X









XIRIUM X System Components

NXX1TX-T NXX1RX-T XIRIUM X Touring Transmitter XTX XIRIUM X Touring Receiver XRX Remote unit, power supply MiniXLR, 1 rod antenna Remote unit, power supply MiniXLR, 1 rod antenna

Accessories

NXA-3-360	5 GHz Antenna 3 dBi Omnidirectional (spare parts)
NXA-10-60-55	5 GHz Antenna 10 dBi 60°H 55°V, including mounting accessories for NXUC-M-15
NXA-14-40-35	5 GHz Antenna 14 dBi 40°H 35°V, including mounting accessories for NXUC-M-15
NXA-10-360-10	5 GHz Antenna 10 dBi, 360°H 10°V, including mounting accessories for NXUC-M-15
NKXA-4.5	Antenna cable RG142, SMA, 4.5 m
NKXA-8	Antenna cable S04162B, SMA, 8 m
NKXA-12	Antenna cable S04262B, SMA, 12 m
NKXA-15	Antenna cable S04162B, SMA, 15 m
NKX-DATA	Data cable to connect the touring units with a computer (USB to Tiny XLR)
NPS-10W-T	Power supply XLR Tiny 5 V / 2 A
NXBP-T-6	Battery pack including power supply, cables and mounting accessories for NXUC-M-15
NXUC-M-15	Manfrotto™ universal mounting clamp
NXA-SMA-MM	Adapter (SMA male-male) for direct connection of antennas on NXX1RX-T
CAS-NXX-BASIC	XIRIUM X set is composed of flightcase,
	1 x NXX1TX-T / 2 x NXX1RX-T / 3 x NXBP-T-6 / 3 x NXUC-M-15 / 1 x NXA-14-40-35 / 1 x NXA-SMA-MM Adapter

R e c o m m e n d e d	Combinations	of Cable and A	ntenna	
Cable	Length	NXA-10-60-55	NXA-10-360-10	NXA-14-40-35
NKXA-4.5	4.5 m	•	•	-
NKXA-8	8.0 m	•	•	-
NKXA-12	12.0 m	-	-	•
NKXA-15	15.0 m	-	-	•
NXA-SMA-MM	Adapter	• *	-	• *

* ... for direct connection on XRX, only on receivers.



innovative **solutions**

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superior **quality**

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1/8 inch

1/4 inch

1 inch

MEASUREMENT LEGEND

Newton Ohm

Micro

Meter(s) Kilo

ENGLISH TO METRIC CONVERSIONS

3.175

6.35

25.4

Outside Diameter

millimeters (mm)

millimeters (mm)

millimeters (mm)

(\mathbb{T}) Definitions, Abbreviations & Useful Information

ELEMENTS

Ag	Silver	Ν
Al	Aluminium	Ω
Au	Gold	μ
Со	Cobalt	OD
Cr	Chromium	m
Cu	Copper	k
Ni	Nickel	
Р	Phosphorus	ΕN
Pb	Lead	
Pd	Palladium	1/8
Sn	Tin	1/4
Zn	Zinc	1 ir

		2.54 cm	1	inch
ALLOYS, PLA	STICS, POLYMERS	1 foot	30.48	centimeters (cm)
			0.305	meter (m)
Brass (Alloy)	CuZn39Pb3	6 foot	1.828	meters (m)
Bronze (Alloy)	CuSn6	50 foot	15.24	meters (m)
Ck 67	Carbon Steel	100 foot	30.48	meters (m)
EPDM	Ethylene Propylene	1000 foot	304.8	meters (m)
GR	Glass Reinforced			
PA	Polyamid(e)	METRIC TO E	NGLISH	CONVERSIONS
PBTP	Polybutylene Terephthalate			
POM	Polyacetal	1 centimeter	0.3937	inches
PTFE	PolyTetraFluoroEthylene (TEFLON)	1 meter	39.37	inches
PUR	Polyurethane	3.281 meter	10	feet
		10 meters	32.808	feet
		50 meters	164.041	feet
		100 meters	328.084	l 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
<i>91</i> .	UL Recognized Component Mark
10	ENEC – European norms electrical certification, demonstrates compliance with European safety standards.
(ME)	VDE Association for Electrical, Electronic and Information Technologies e.V.
AWG	American Wire Gauge

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Neutrik Product Line





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