

Data Connectors



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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 interconnection products like fiber optic and network interconnections as well as Digital Interfaces HDMI, USB, D-SUB 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











opticalCON DUO





Rugged metal housing

Cable drum



Rubber coated protection cover



Rear LC connection



Chassis with transceiver adapter

Chassis Connector



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 and standard LC connector

NKO2*



NO2-4FDW-A









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

NKO4*



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, and LITE connector





NO4FDW-A









Rugged metal housing

Spherical shutter



Rubber sealing gasket



Rear MTP[®] connection

Chassis Connector



NKO125*

- 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, and LITE connector

NKO12*



NO12FDW-A









Color coding

DUO, QUAD & MTP® Couplers

Breakout Boxes & Coupler





NO12SABB6D-A

NAO2S-H1W-A

- 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, 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



Find 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-A

opticalCON - Ch1 ≠ -4.4 dBn Thr=3 4 -0.1 dB powerMONITOR 0 0 0 0 000 NEUTRIK

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-

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

dios and control rooms, eliminating the need for high-maintenance, risky matrix patch fields using SMPTE patch cables. 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
- 8 x 4 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

4 channel fiber optic

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*

opticalCON QUAD LITE



- 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 QUAD NO4FDW-A chassis

NKO2M-L-0-*





LITE



12 channel MTP®





Color coded cable connector

opticalCON MTP® LITE



- 12 channel MTP[®] based fiber 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 feature unique fiber design including a protection buffer 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.

etherCON CAT6A









etherCON

Rugged diecast shell

Feedthrough

IDC Version

IP 65 Protected

etherCON CAT6A Series



NE8MX6



NE8FDX-P6



NE8FDX-Y6-W

- 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













etherCON CAT6A

Technical Data

				Receptacle	Cable co	onnector
Electrica	a l					
Number of cor	ntacts	8		•		•
Rated current	per contact	1.5 A		•		•
TIA / EIA rating)	CAT6A		•		•
IEC / ISO / EN r	rating	CAT6A		•		•
Input to outpu		< 200 mΩ		-		-
Insulation resis		> 500 MΩ		•		•
Dielectric stren	2	1 kV dc		•		•
PoE + acc. IEEE	802.3at			•		•
Material	s					
Housing		Zinc diecast		•		•
Adapter		Polyamide PA 6		-		-
Strain relief cla	amp	POM		-		•
Contacts		Bronze CuSn		-		-
		Spring steel		•		•
Contact surface	e	Gold		•		•
Bushing		PU / PA		-		•
Mechani	cal					
Retention met	hod	Latch Lock		•		•
Life time (mati		> 1`000		•		•
Cable O.D. ran	• •	7.0 - 9.5 mm		•		•
Wire size	-	solid	NE8FDX-Y6(-B)(-V	V): AWG 26/1-22/1	NE8MX6(-B):	AWG 24/1 - 22/1
		stranded wire		AWG 26/7 -22/7		AWG 24/7 - 22/7
Insulation diam	eter			> 0.85 - 1.6 mm		> 1.10 - 1.60 mm
Wire size		solid		-	NE8MX6(-B)-T	AWG 26/1 -24/1
		stranded wire		-		AWG 27/7 -24/7
Insulation diam	eter			-		> 0.85 - 1.10 mm
Environı	mental					
Operating tem	perature / Storag	e temperature	-40 °C to +70 °C	•		•
Flammability		UL94V-0		•		•
Protection clas	S	IP 65 in combinat	ion with "-W" recep	tacle •		•
Ordering	g Informa [.]	tion				
Cable Con	nector		Receptacle			
NEQNAVE	CATE, pickel a	lating > AVA/C 24		CATEs chielded for the	rough nickal platin	
NE8MX6		lating, \geq AWG 24	NE8FDX-P6	CAT6 _A shielded feedth		
NE8MX6-B		ating, ≥ AWG 24 lating, ≤ AWG 24	NE8FDX-P6-B	CAT6 _A shielded IDC _ p	5 · · ·	y
NE8MX6-T	, ,	5,	NE8FDX-Y6	CAT6 _A shielded IDC, n		
NE8MX6-B-T	CATOA, DIACK PI	ating, ≤ AWG 24	NE8FDX-Y6-B	CAT6 _A shielded IDC, b		ed rubber sealing cap, IP 65
			NE8FDX-P6-W	CAT6A shielded teedthr CAT6A shielded IDC, w	5, 5	5 17
			NE8FDX-Y6-W	CATOA SHIEIded IDC, W	nun integrateu rubb	ei sealling cap, ir oo

Accessories and Assembly Tools

HTXX-14	Handtool to tighten the NE8MX6* bushing	XXR*	Colored coding ring (see page 38)
HX-CAT6A	Parallel press tool for etherCON CAT6 ^A Series	XXCR	Translucet coding ring (see page 38)



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

NE8FBH-C5-LED



NE8FBV-C5-LED-S





2.7 [.106]

NE8FDV-Y110



NE8FDH-C5E





etherCON







Vertical PCB Horizontal PCB

NE8FDV-SE - Vertical PCB receptacle combined with waterproof kit

etherCON - Receptacles



NE8FAV + ACRF-2

NE8FBH

2.7 [.106*]



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

C.984". 25 (



25 [.984*****]

5 1.49P 18.3 [.720°]

21.6 [.850*]



NE8FBH











• "A / B" and "D" sized receptacles available in vertical and horizontal PCB or IDC terminations

• Accommodates NE8MC carriers or any standard RJ45 Plug

• D-versions with unified metal flange equal to "D" series-XLR, speakON, powerCON and BNC Bulkhead

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.



NE8FDP-R



- 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

NE8FBH-LED

27.65 [1.090



26.2 [1.032]





NE8FDP-R



31.7 [1.25] 18,05 [.71] 4.5 (.18)





Feedthrough









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

Rated voltage Contact resistance Insulation resistance > Dielectric strength > Frequency bandwidth 1 Transmission class acc. TIA / EIA 568B C PoE + acc. IEEE 802.3at C Mechanical C Retention method Ia Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A	< 1.5 A < 50 V ac < 10 mΩ > 500 MΩ > 1`000 V ac rms I - 100 MHz	- 1) -	• • • • • • • • • • • • • •	• • • • • •
Number of contacts 8 Rated current per contact Rated voltage Contact resistance Insulation resistance > Dielectric strength > Frequency bandwidth 1 Transmission class acc. TIA / EIA 568B C PoE + acc. IEEE 802.3at C M e c h a n i c a l C Retention method Ia Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A Panel thickness n	< 1.5 A < 50 V ac < 10 mΩ > 500 MΩ > 1`000 V ac rms I - 100 MHz or IEC 11801 - CAT 5e	- 1) - 1) - 1) - 1) - 1) - 1) - 1) - 1)	• • • • • •	• •
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Transmission class acc. TIA / EIA 568B PoE + acc. IEEE 802.3at M e c h a n i c a l Retention method la Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A Panel thickness n	or IEC 11801 - CAT 5e	_ 1) _ 1)	-	•
Composition Composition PoE + acc. IEEE 802.3at Composition M e c h a n i c a l Composition Retention method Late Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A Panel thickness n		_ 1)	NE8*-C5* / NE8FA*-Y* N	•
PoE + acc. IEEE 802.3at M e c h a n i c a l Retention method la Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A Panel thickness n	Class D			VE8FD*-C5e / NE8FD*-'
Mechanical Retention method la Life time (mating cycles) > Insertion / withdrawal force Cable O.D. range 3 Wire size A Panel thickness n		_ 1)	•	•
Retention method la Life time (mating cycles) > Insertion / withdrawal force S Cable O.D. range 3 Wire size A Panel thickness n			•	•
Life time (mating cycles) > Insertion / withdrawal force Scable O.D. range 3 Wire size A Panel thickness n				
Life time (mating cycles) > Insertion / withdrawal force Scable O.D. range 3 Wire size A Panel thickness n	atch lock	•	•	•
> Insertion / withdrawal force ≤ Cable O.D. range 3 Wire size A Panel thickness n		•	•	•
Insertion / withdrawal force ≤ Cable O.D. range 3 Wire size A Panel thickness n	> 1`000 mating cycles	•	•	
Cable O.D. range 3 Wire size A Panel thickness n	> 200 mating cycles	-	-	SE8FD
Wire size A Panel thickness n	≦20 N	•	•	•
Panel thickness n	3.5 - 8 mm	• _ 1)	-	-
	AWG 26 – 20	_ 1)	NE8*-Y*	NE8*-Y*
Material	nax. 3 mm / 0.12"	-	•	4 mm / 0.16"
Housing P	PBT D202G30	-	•	•
Z	inc diecast (ZnAlCu1, gal Ni / bl Cr / Chror	mium) 🔹	-	-
B / D-flange Z	Zinc diecast (ZnAlCu1, gal Ni / bl Cr)	-	•	•
Strain relief clamp P	MO	•	-	-
C	CuZn35Pb2, Tin plated	-	NE8*-Y*	NE8*-Y*
Contacts B	Bronze (CuSn8)	_ 1)	•	•
S	Spring steel	NE8*C5*	•	٠
Contact surface A	Au (gal 0.2 μm over Ni plating)	_ 1)	•	•
	Ck 67 steel, treated	-	•	٠
-	Polyamide (PA 6 15% GR)	•	-	-
-	Polyamide (PA 6)	•	_	_
	PDM	-	-	SE8FD
Environment				
Operating Temperature	-30 °C to +80 °C	•	•	•
	-20 °C to +60 °C	-	•	SE8FD
	-20 °C 10 +60 °C	-	-	SE8FD SE8FD
	UL94V-0	- UL94 HB	-	
-	IEC 68-2-20			
, , , , , , , , , , , , , , , , , , ,	IEC 00-2-20	-	PCB Version	PCB Version
Mating screw		_	Λ -	E
Color coding		- BSE-* / BSX-*	A screw ACRF-*	E screw DSS-*

¹⁾: Specs depend on type of RJ45 plugs used



Ordering Information

		Shape			Т	erminat	tion				Remarks
	A	B	D	Н	V	IDC	IDC 110	LED	5	5	
CAT 5e Receptac	е										
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
VE8FDH-C5e		•	•	•	•			•			
NE8FDH-C5e-SE			•								with sealing kit SE8FD
NE8FDV-YK*			•	•		•					
NE8FDV-Y110*			•			•					
NE8FDP*; NE8DFP-B			•				•				feedthrough; black plating
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
											coupler, black plating
CLASS D Recepta	cle										
NE8FAH	•			•							
NE8FAV	•				٠						
NE8FAV-SD*	•				٠						Screw dome
NE8FBH		•		•							
NE8FBV		•			•						
NE8FDV			•		•						
NE8FDV-SE			•		•						with sealing kit SE8FD
Cable Carriers											
NE8MC	Cable	housing w	vith chuc	k and b	ushing (tv	vo antikin	k boots, on	e up to	5 mm	n and	d one up to 8 mm cable O.D.)
	(standa	ard bushir	ng in bla	ck, 9 dif	ferent coo	ing colou	rs on reque	st)			
NE8MC-B	Black o	chromium	housing	with ch	uck and b	ushing (tv	wo antikink	boots, d	one fo	r 5 n	nm and one for 8 mm cable O.D.
							rs on reque				
NE8MC-1							linox platin		D-ring	gasl	ket
		-				-		-	-	-	colours on request)
NE8MC-B-1		chromium	•	•		-				5	
								st)			
	(standard bushing in black, 9 different coding colours on request)										

IMPORTANT: Cable connectors do not include RJ45 plug. RJ45 cable assembly must be provided by end-user!

INFORMATION:	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	Sshielded metal housing
	V Vertical PCB mount	* Including 2 mounting screws

Accessories

ACRF-* DSS-* BSE-* BSE-* BSX-* SCDP-* ACRF-* Colored basis SCD-W SCDP-* SCDP-*	A screw	E screw	E screw Nickel			
SCDXSCCD-WA-ScrewMounting screw for A / B -shape (black self-tapping PLASTITE* screw 2.9 x 8, panhead)E-ScrewMounting screw for D-shape (black self-tapping PLASTITE* screw 2.9 x 12, countersunk)E-ScrewMounting screw for D-shape (black self-tapping PLASTITE* screw 2.9 x 12, countersunk)E-Screw-NiMounting screw for D-shape (black self-tapping PLASTITE* screw 2.9 x 12, countersunk)ACRF-*Colored coding rings for A-shape receptacles (Box of 100 pcs.)BSE-*Colored boot for cable connector carrier (Box of 100 pcs.)BSX-*Colored boot for cable connector carrier (Box of 100 pcs.)BSX-*Colored bushing for NE8MC-1 and NE8MC-B-1 cable connectorsDSS-*Lettering plate for D series, colored plasticNZP1RUPanel1RU D-shape housingSCDP-*D-Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)SCDXHinged cover seals D-size chassis connectors, IP 42 ratedSCD-WSpring-loaded cover to seals for D-size chassis connectors, IP 65 rated						
A-ScrewMounting screw for A / B -shape (black self-tapping PLASTITE* screw 2.9 x 8, panhead)E-ScrewMounting screw for D-shape (black self-tapping PLASTITE* screw 2.9 x 12, countersunk)E-Screw-NiMounting screw for D-shape (Nickel self-tapping PLASTITE* screw 2.9 x 12, countersunk)ACRF-*Colored coding rings for A-shape receptacles (Box of 100 pcs.)BSE-*Colored boot for cable connector carrier (Box of 100 pcs.)BSX-*Colored bushing for NE8MC-1 and NE8MC-B-1 cable connectorsDSS-*Lettering plate for D series, colored plasticNZP1RUPanel1RU D-shape housingSCDP-*D-Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)SCDXHinged cover to seals for D-size chassis connectors, IP 65 rated	ACRF-*	DSS-*	BSE-*	BSX-*		SCDP-*
E-ScrewMounting screw for D-shape (black self-tapping PLASTITE* screw 2.9 x 12, countersunk)E-Screw-NiMounting screw for D-shape (Nickel self-tapping PLASTITE* screw 2.9 x 12, countersunk)ACRF-*Colored coding rings for A-shape receptacles (Box of 100 pcs.)BSE-*Colored boot for cable connector carrier (Box of 100 pcs.)BSX-*Colored bushing for NE8MC-1 and NE8MC-B-1 cable connectorsDSS-*Lettering plate for D series, colored plasticNZP1RUPanel1RU D-shape housingSCDP-*D-Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)SCDXHinged cover seals D-size chassis connectors, IP 42 ratedSCCD-WSpring-loaded cover to seals for D-size chassis connectors, IP 65 rated	SCDX	SCCD-W				
E-Screw-NiMounting screw for D-shape (Nickel self-tapping PLASTITE* screw 2.9 x 12, countersunk)ACRF-*Colored coding rings for A-shape receptacles (Box of 100 pcs.)BSE-*Colored boot for cable connector carrier (Box of 100 pcs.)BSX-*Colored bushing for NE8MC-1 and NE8MC-B-1 cable connectorsDSS-*Lettering plate for D series, colored plasticNZP1RUPanel1RU D-shape housingSCDP-*D-Size sealing gaskets, color coding (*: 0- black, 2- red, 4- yellow, 5- green, 6- blue, 9- white)SCDXHinged cover seals D-size chassis connectors, IP 42 ratedSCCD-WSpring-loaded cover to seals for D-size chassis connectors, IP 65 rated						
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SCDXHinged cover seals D-size chassis connectors, IP 42 ratedSCCD-WSpring-loaded cover to seals for D-size chassis connectors, IP 65 rated			5			
SCCD-W Spring-loaded cover to seals for D-size chassis connectors, IP 65 rated			-		- blue, 9- white)	
		2				
• U - Biack, I - Brown, Z - Ked, 3 - Urange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White	SCCD-W				2 14/-:+-	
		". U - Black, I - Brown, Z - Re	eu, 5 - Orange, 4 - Yellow, 5 - Gree	11, ο - Βίμε, 7 - νιοιεί, 8 - Grey, 9	9 - vvnite	

Waterproof kit for etherCON D-Series



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

CAT6 Receptacles

CAT6 Patch Cable

NKE6S-*

NE8MC6-MO





NE8FDY-C6

NE8FDY-C6-B

- 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

NKE6S-*

NE8FDY-C6



NE8MC6-MO





112

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 mm² (AWG 24 - AWG 2	2) •	•
Stranded wire	0.141 - 0.355 mm² (AWG 26 / 7 - 22 /	7) •	٠
Environmental			
Operating temperature	-10 °C to +60 °C	•	•
Storage temperature	-40 °C to +70 °C	•	•
Flammability	UL94HB	•	•
Protection class	IP 65	•	•
Ordering Informa	tion CATE		
ordering informa			
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

 NKE6S-*-WOC
 Equipped on one side with metal shell, standard lengths: 1, 2, 3, 5, 10, 30 m

 Custom length in meter steps on request

 Receptacle

 NEREDX-C6
 CAT6 with Nickel D-shell

Accessories	see page 111 / 116 / 120
NE8FDY-C6-B	CAT6 with Black Chrome D-shell
NE8FDY-C6	CAT6 with Nickel D-shell







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

Neutrik USB cable NKUSB-*

• Optional screen to chassis grounding

• USB 2.0 gender changer type A-B (B-A)

• Ideal for audio networking and integration of

computerbased equipment into audio systems

• Universally accepted standard D-shape housing

• Lockable connection and water protection if mated with

• Reversible insert offering type A or B on front or rear end

NAUSB-W-B

NAUSB3



- 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	tandard	•	•
Material			
Shell	Zinc diecast (ZnAl4Cu1)	•	•
Shell plating	Nickel or black Chrome	•	Nickel
Insert		PBTP 15% GR	PVC
Contacts	Brass (CuZn39Pb3)	•	•
Contact finish	Gold	•	•
Environmenta	1		
Operating temperature	-25 °C to +85 °C	•	•
Flammability	UL94 V-0	•	•
Protection class	IP 65	•	•

Ordering Information

-						
•	h	2	c	c	п	c
С		а	э	э		

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



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
SCD-W	D-Size sealing cap, 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



HDMI Adapter





Push Pull locking

HDMI 1.4





D-shape metal housing

HDMI 1.4 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-*



• Audio / Video interface to transmit any digital TV and PC Video format including high-definition video (HDTV).

NAHDMI-W

- HDMI 1.4 feedthrough adapter with 19 pole HDMI receptacle at both ends
- Optional screen to chassis grounding
- Universally accepted standard D-shape housing

NAHDMI-W









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-B

NADB15FF

- 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







Technical Data

Mechanical and	l Electrical	HDMI Receptacle	HDMI Patch Cable	Firewire	D-SUB
Conform with Standards		HDMI 1.4	HDMI 1.4	IEEE	-
Material					
Shell	Zinc diecast (ZnAl4Cu1)	•	•	•	•
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	•	•	٠	•
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



DSS-*







SCCD-W





SCD-W



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
SCD-W	D-Size sealing cap, IP 65 rated (not suitable for NADB*)
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	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	•	*	•	٠	٠	٠	٠	٠	٠	٠	*	٠	٠
۰	۰	٠	٠	۰	•	۰	٠	٠	٠	۰	٠	٠	٠	٠	۰	٠	٠	*	٠	٠	•	*	٠	*	•	٠	٠	•	٠	٠	*	*	٠	٠	٠
٠	٠	۰	۰	٠	۰	٠	۰	۰	٠	٠	۰	۰	۰	0	•	٠	٥	۰	۰	٠	٠	٠	•	٠	٠	٠	٠	۰	٠	۰	٠	٠	•	٠	٠
٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	*	٠	٠	٠	٠	٠	•	•	٠	*	•	٠	٠	٠	٠	٠	•	٠	•	٠	٠
٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	*	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	*	٠	٠	*
٠	٠	٠	٠	۰	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	۰	٠	٠	۰	۰	٠	٠	٠	٠	٠	٠	۰	٠
۰	•	0	٠	•	0	۰	۰		0	0	۰		0	٠	٠	۰	0	٠	٠	0		•	۰	•		۰	۰	0	۰	٠	٠	0	۰	•	٠