

Data Connectors



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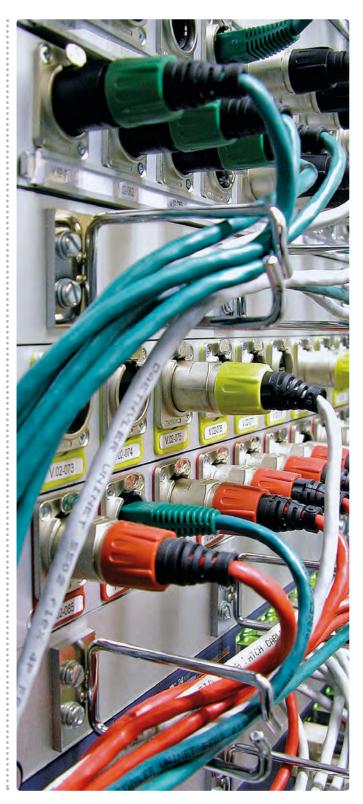
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Introduction

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.

Data Connectors



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 IP54 is achived on the CAT 5 version by assembling the waterproof sealing kit SE8FD while CAT 6 versions are IP65 rated as standard and at the new CAT6A range it is customers choice to use the IP65 protected receptacles or the unprotected versions.



etherCON°CAT6A



Rugged diecast shell







IP65 Protected

etherCON CAT6A Series



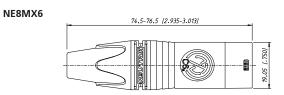
NE8MX6

NE8FDX-P6

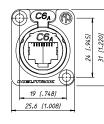


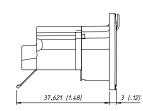
NE8FDX-Y6-W

- 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
- IP65 protected version available
- PoE+ compliant according to 802.3at Type2
- Downwards compatible with the existing etherCON CAT5 range

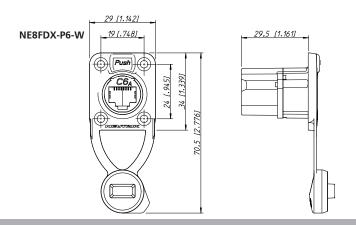


NE8FDX-Y6











Feedthrough

IDC Version

4

etherCON°CAT6A

Technical Data

			Receptacle		onnector
Electrical					
Number of contacts	8		•		•
Rated current per contact	1.5 A		•		•
ΓΙΑ / EIA rating	CAT6A		•		•
EC / ISO / EN rating	CAT6A		•		•
nput to output resistance	< 200 mΩ		-		-
nsulation resistance	> 500 MΩ		•		
Dielectric strength	1 kV dc		•		•
PoE + acc. IEEE 802.3at			•		•
Vlaterials					
Housing	Zinc diecast		•		•
Adapter	Polyamide PA 6		_		-
Strain relief clamp	POM		_		•
Contacts	Bronze CuSn		_		
	Spring steel		•		•
Contact surface	Gold		•		
Bushing	PU / PA		-		
Justining	10717				
Vlechanical					
Retention method	Latch Lock		•		•
ife time (mating cycles)	> 1`000		•		•
Cable O.D. range	7.0 - 9.5 mm		•		•
Wire size	solid	NE8FDX-Y6(-B)(-W):	AWG 26/1-22/1		AWG 26/1 - 22/1
	stranded wire		AWG 26/7 -22/7		AWG 27/7 - 22/7
nsulation diameter			> 0.85 - 1.6 mm	NE8MX6(-B):	> 1.10 - 1.60 mm
				NE8MX6(-B)-T:	> 0.85 - 1.10 mm
Environmental					
Operating temperature / Stora	de temperature	-40 °C to +70 °C	•		
lammability	UL94V-0	10 0 10 170 0	•		•
Protection class		on with "-W" receptacle	•		
			-		-

Cable Connector Receptacle NE8MX6 CAT6₄, nickel plating, ≥ AWG 24 NE8FDX-P6 CAT6A shielded feedthrough, nickel plating NE8FDX-P6-B CAT6A shielded feedthrough, black plating NE8MX6-B CAT6_A, black plating, \geq AWG 24 NE8MX6-T CAT6_A, nickel plating, \leq AWG 24 NE8FDX-Y6 CAT6A shielded IDC, nickel plating NE8MX6-B-T CAT6_A, black plating, ≤ AWG 24 NE8FDX-Y6-B CAT6A shielded IDC, black plating NE8FDX-P6-W CAT6A shielded feedthrough, with integrated rubber sealing cap, IP65 NE8FDX-Y6-W CAT6A shielded IDC, with integrated rubber sealing cap, IP65 Accessories and Assembly Tools

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

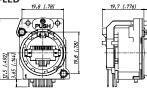


NE8FDV-Y110-B

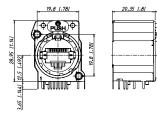
NE8FDH-C5E

- Space saving A or B type receptacles horizontal or vertical PCB design available
- Vertical PCB design of NE8FAV-C5* and NE8FBV-C5* is 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 NE8MX* cable carriers or any standard RJ45 plug
- D type receptacles horizontal PCB or punch terminal (Krone or 110) design available

NE8FBH-C5-LED

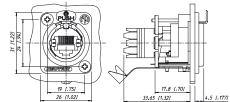


NE8FBV-C5-LED-S

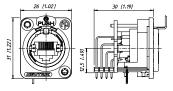




NE8FDV-Y110



NE8FDH-C5E







etherCON[°]



Horizontal PCB



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

• Accommodates NE8MX 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

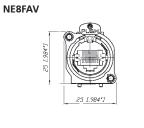
NE8FBH



NE8FDV

NE8FDV-SE

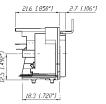
- Receptacles comply with Class D (PCB versions) or CAT 5e (IDC versions and NE8FDH-C5E) according to TIA / EIA 568B and ISO / IEC 11801 standard
- Version with screw domes to fix connector onto PCB securely (NE8FAV-SD)



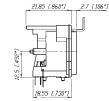
NE8FAV-SD

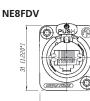






NE8FBH

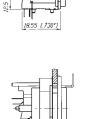




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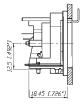
25 [.984*]

26 [1.024*]



16.45 [.648]

4.5 [.177]









Completely closed housing

Light pipe

etherCON – Shielded & Lighted



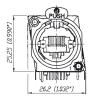
NE8FBH-S

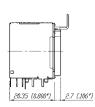


NE8FBH-LED

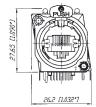
- Comprehensive shielding granted by completely closed metal housing
- Improves EMC performance of appliance even in unmated condition
- Light pipes illuminated by standard 3 mm LEDs to be mounted on PCB by customer
- Receptacles comply with class D Link performance.
- Ground panel connection
- Complies with Class D according to TIA / EIA 568B and ISO / IEC 11801 standard
- Approved latch lock system

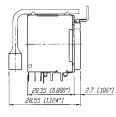
NE8FBH-S





NE8FBH-LED







ether CON





NE8FDP-R rear side

Locking latch

Rugged aluminium extrusion housing





Rugged diecast shell

IP65 Protected in mated condition

etherCON Feedthrough



NE8FDP-R



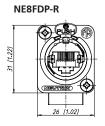
- Feedthrough as panel mount receptacle and as cable coupler
- NE8FDP feedthrough connector in D series housing for use in patchfields - rear side accommodates standard RJ45 plug.
- New: Right angle version available (NE8FDP-R).
- NE8FF coupler (adapter) for cable to cable mating use with NE8MX* carriers or any standard RJ45 plugs

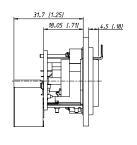


etherCON CAT6A Adapter

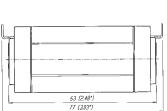
NE8FFX6-W

- Ruggedized coupler with CAT6_A component compliance according to ISO/IEC 11801 and TIA/EIA 568-C.2
- IP65 protected when mated with NE8MX6*
- Accommodates standard RJ45 plug
- Revolutionary small form factor
- The adapter offers the million fold proven robust latch lock system
- The adapters are problem solvers for various intermating problems for professional and semi-professional applications

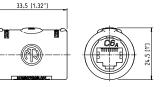








NE8FFX6-W







NEW



etherCON TOP

NEUTRIK's new TRUE OUTDOOR PROTECTION (TOP) products for demanding outdoor applications is setting standards. Approved for outdoor use according to UL50E. UV resistant and IP65 rated.

The highly innovative entertainment industry is permanently evolving accompanied by increasing demands on interconnection systems. Particular environmentally sealed connectors are highly requested for heavy-duty and harsh environment applications of entertainment equipment like PA systems, signs and LED screens or lightings.

Cable connector carrier consists of a velour chromiuim shell, chuck and boot. The boot is suitable for cable diameters from 5 - 8 mm. For non pre-assembled cables only. Cable connector carrier does not include a RJ45 plug. The etherCON cable connector carrier upgrades a conventional RJ45 connector to an extremely robust, outdoor protected lockable solution (IP65 & UL50E). ATTENTION: Does not intermate with the CAT6 chassis connectors NE8FDY-C6 and NE8FDY-C6-B.

The etherCON chassis connector series is a ruggedized and lockable RJ45 connector system, optimized for pro audio, video and lighting network applications. The chassis connectors are shaped to fit into standardized panels out of the entertainment industry. The D-series offers the most rugged design of the etherCON series and is perfectly suitable for panel mount and the installer market.

ATTENTION: Does not intermate with CAT6 cable connector NE8MC6-MO and NKE6S* cables.



etherCON° TOP











Rugged diecast shell

Metal shell

Outdoor assembly kit

etherCON TOP - lockable RJ45 connector system



NE8MX-TOP

- Heavy-duty sealed RJ45 system for harsh environment
- Rugged cable connector carrier accepting most common RJ45 plugs
- Uses high impact UV resistant materials per UL
- Outdoor protection acc. IP65 Rated and UL50E Certified





NE8FDV-TOP

- D-sized receptacles for PCB mount and IDC termination
- Sealing when disconnected by attached cover
- Class D or CAT5e acc. ISO/IEC 11801 and TIA/EIA 568B

Ordering Information

Cable Connector

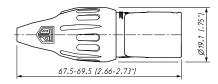
NE8MX-TOP

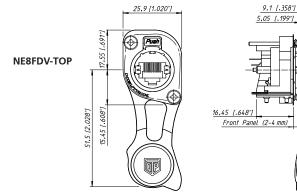
Rugged RJ45 cable connector carrier

Chassis Connector

NE8FDV-TOP	Rugged D-size chassis connector, mounting screws included
NE8FDP-TOP	Rugged D-size feedthrough chassis connector, mounting screws included
NE8FDH-C5E-TOP	Rugged D-size PCB mount chassis connector, mounting screws included
SE8FD-TOP	Outdoor assembly kit

NE8MX-TOP







NEW

etherCON





Newly designed rugged diecast shell





NEUTRIK bushing

etherCON – Cable Carriers

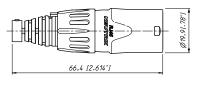


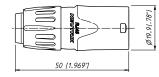




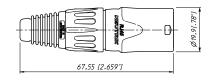
- The RJ45 system for harsh and demanding environment
- Cable connector carrier accepts the most common RJ45 plugs
- Cable connector carrier has rugged diecast shell and unique chuck type strain relief
- Protects Ethernet connections in a variety of commercial type applications and is designed to prevent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

NE8MX





NE8MX-1







Technical Data

Specification		NE8MX-TOP Cable Con.	NE8MX* Cable Con.	NE8FA/B* (A + B Series)	NE8FD*-TOP (D Shape)	NE8FD* (D Series)
Electrical						
Number of contacts	8	- ¹	- 1)	•	•	٠
Rated current per contact	< 1.5 A	_ ¹	- 1)	•	•	•
Rated voltage	< 50 V ac	- 1	- 1)	•	•	٠
Contact resistance	< 10 mΩ	_ 1	_ 1)	•	•	•
Insulation resistance	> 500 MΩ	_ 1	_ 1)	•	•	•
Dielectric strength	> 1`000 V ac rms	_ 1	_ 1)	•	•	•
Frequency bandwidth	1 - 100 MHz	_ 1	_ 1)	•	•	•
Transmission class acc. TIA / EIA		_ 1	_ 1)	- NE8*-C5*/NE8FA*-Y*	•	- NE8FD*-C5e/NE8FD*-Y
	Class D	_ 1	_ 1)	NEB CO MEBIA T	•	•
PoE + acc. IEEE 802.3at		_ 1	_ 1)	•	•	•
rue + acc. IEEE 602.5at		-	- /	•	•	•
Mechanical						
Retention method	latch lock	•	٠	٠	•	٠
Life time (mating cycles)	> 1`000 mating cycles	٠	•	•	٠	•
	> 200 mating cycles	-	-	-	-	SE8FD
Insertion / withdrawal force	≤ 20 N	•	•	•	•	•
Cable O.D. range	4.5 - 8 mm	5 - 8 mm	٠	-	-	-
Wire size	AWG 26 – 20	_ 1)	_ 1)	NE8*-Y*	-	NE8*-Y*
Panel thickness	max. 3 mm / 0.12"	-	-	•	4 mm / 0.16"	4 mm / 0.16"
Material						
Housing	PBT D202G30	-	-	•	•	٠
5	Zinc diecast (ZnAlCu1)	•	•	-	-	-
	(gal Ni / bl Cr / Chromium)					
B / D-flange	Zinc diecast (ZnAlCu1)	_	-	•	•	•
by b hange	(gal Ni / bl Cr)					
Strain relief clamp	POM	•	•	-	_	-
	CuZn35Pb2, Tin plated	•	•	NE8*-Y*		 NE8*-Y*
Cantasta		_ 1)	_ 1)	INEO - 1	•	NEO - 1
Contacts	Bronze (CuSn8)			•	•	•
<u> </u>	Spring steel	NE8F*-TOP	NE8*C5*		•	
Contact surface	Au (gal 0.2 µm over Ni plating	9/	- "	•	•	•
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 remperature	-20 °C to +60 °C	-	-	-	-	SE8FD
Protection class	IP54	-	-	-	-	SE8FD
	IP 54 IP 65, UL 50E	•	-	-	•	SEOFD
			-	-	•	-
	(mated or sealing cap closed		111.0.1.115	-	-	-
Flammability	UL94V-0	•	UL94 HB	•	•	•
Solderability complies with	IEC 68-2-20	-	-	PCB Version	•	PCB Version
Mating screw		-	-	A screw	included	E screw
Color coding		-	BSE-* / BSX-*	ACRF-*	-	DSS-*

¹⁾: Specs depend on type of RJ45 plugs used



Ordering Information

		Shape		Termina	tion			Remarks
								÷
	A	BC		V IDC	IDC 110	LED	S	
CAT 5e Receptacle	e							
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
		•	•			•	•	SIVID 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 [®]		•			٠			
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
Feedthrough Cou	pler							
NE8FF						_		feedthrough block plating
NE8FX6-W	Develutiv	•	n factor Acc	nomedates stand	and DI4E plus	- CATC f	o o d+b rou	feedthrough; black plating ugh, rubber sealing, protection, IP
NEOFAO-W	Revolutio	Shary Shall Ton	n lactor, Acco	Smmouales sland	aru ku45 piug	j, catoa i	eeathrot	agn, rubber sealing, protection, im
TOP Series								
Cable Connector								
NE8MX-TOP								IP65, UL50E (mated)
Chassis Connecto	r							
chassis connecto								CLASS D
	-	D-s	IZe	•				CLASS D
NE8FDV-TOP [®]		D-s D-s		•				CLASS D CAT5e feedthrough
NE8FDV-TOP [®] NE8FDP-TOP [®]			ize	•				
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®]		D-s	ize •	•				CAT5e feedthrough
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP		D-s D-s	ize •	•				CAT5e feedthrough CAT5e
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac		D-s D-s	ize • ize •	•				CAT5e feedthrough CAT5e
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac NE8FAH	•	D-s D-s	ize •	•				CAT5e feedthrough CAT5e
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac NE8FAH NE8FAV	•	D-s D-s	ize • ize •	•				CAT5e feedthrough CAT5e Outdoor assembly kit
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac NE8FAH NE8FAV NE8FAV-SD [®]	•	D-s D-s	ize • ize •	•				CAT5e feedthrough CAT5e
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac NE8FAH NE8FAV NE8FAV-SD [®] NE8FBH	•	D-s D-s	ize • ize •	•				CAT5e feedthrough CAT5e Outdoor assembly kit
NE8FDV-TOP [®] NE8FDP-TOP [®] NE8FDH-C5E-TOP [®] SE8FD-TOP CLASS D Receptac NE8FAH NE8FAV NE8FAV-SD [®] NE8FBH NE8FBV	•	D-s D-s	ize • ize •	•				CAT5e feedthrough CAT5e Outdoor assembly kit
NEARDY-TOP® NEARDY-TOP® NEARDH-C5E-TOP® SEARD-TOP CLASS D Receptac NEARAH NEARAV NEARAV NEARAV-SD® NEARBH NEARBV NEARDV NEARDV-SE	•	D-s D-s	ize ize ize ize ize	•				CAT5e feedthrough CAT5e Outdoor assembly kit

Cable Carriers						
NE8MX	Cable housing with chuck and bushing (two antikink	boots, one up to 5 mm and one up to 8 mm cable O.D.)				
	(standard boot in black, 9 different coding colours on	request BSE-*)				
NE8MX-B	Black chromium housing with chuck and bushing (two	antikink boots, one for 5 mm and one for 8 mm cable O.D.)				
	(standard boot in black, 9 different coding colours on request BSE-*)					
NE8MX-1	Cable housing with chuck and X-series bushing, Collir	nox plating and O-ring gasket				
	(perfect for waterproof applications, standard bushing in black, 9 different coding colours on request BSX-*)					
NE8MX-B-1	Black chromium housing with chuck and X-series bushing					
	(standard bushing in black, 9 different coding colours on request BSX-*)					
IMPORTANT:	Cable connectors do not include RJ45 plug. RJ45 cabl	e 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	S shielded metal housing				
	V Vertical PCB mount	Includes 2 mounting screws				

Accessories

ملع	and the second						
A screw	E screw	E screw Nickel					
5	5				B		
ACRF-*	BSE-*	BSX-*	DSS-*	HTX	SCDP-*	SCDX	SCCD-W
Waterproof asse	embly kit - SE8FD			Outdoor	r assembly kit - SE8FD-TC	DP	
A-Screw	Mounting scr	ew for A / B -shape	e (black self-tap	ping PLASTITE® scre	ew 2.9 x 8, panhead)		
E-Screw	Mounting scr	ew for D-shape (bla	ack self-tapping	g PLASTITE® screw 2	2.9 x 12, countersunk)		
E-Screw-Ni	Mounting scr	ew for D-shape (Ni	ckel self-tappin	g PLASTITE® screw 2	2.9 x 12, countersunk)		
ACRF-*		g rings for A-shape r					
BSE-*	Colored boot	for cable connecto	or carrier (Box c	of 100 pcs.)			
BSX-*	Colored bushir	ng for NE8MC-1 and I	NE8MC-B-1 cabl	e connectors			
DSS-*	Lettering plat	e for D series, colo	red plastic				
HTX	Hand tool to	tighten the bushing	for NE8MC-1, I	NE8MC-B-1 and NE8M	VIX* cable connectors		
NZP1RU	Panel1RU D-s	hape housing					
SCDP-*	D-Size sealing	gaskets, color cod	ling (*: 0- black,	2- red, 4- yellow, 5- g	green, 6- blue, 9- white)		
SCDX		seals D-size chassis					
SCCD-W	Spring-loaded	d cover to seals for	D-size chassis	connectors, IP65 rat	ted		
SE8FD					for all NE8FD*, perfect	in combination	with
		th Chromium platir					
SE8FD-TOP					TOP versions, according	g to IP65 & UL50	E
		-		reen, 6 - Blue, 7 - Violet, 8			





Push Pull locking



IP65 in mated condition





D-shape metal shell

Closed shielding

etherCON CAT6 – Patch Cable & Receptacles



NKE6S-*

NE8MC6-MO





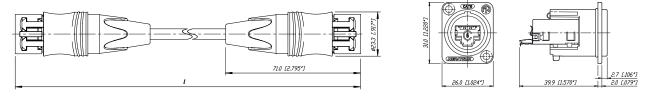
NE8FDY-C6

NE8FDY-C6-B

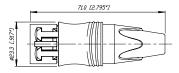
- CAT6 compliant according to ISO / IEC 11801, TIA / EIA 568C.2, EN50173-1
- Dust and water resistant according IP65 in mated condition
- Push Pull mating design provides secure locking system
- Shielded system high noise immunity and EMI protection
- IDC contacts for tool-free assembly offer gas-tight 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





(

Technical Data

iechnical Data				
		Receptacle	Patch Cable	
Electrical				
	0	•		
Number of contacts	8 1.5 A	•	•	
Rated current per contact		•	•	
TIA / EIA rating IEC / ISO / EN rating	CAT6 CAT6 _A	•	•	
Input to output resistance	< 200 m Ω	-	•	
Insulation resistance		•	•	
	> 500 MΩ	•		
Dielectric strength PoE + acc. IEEE 802.3at	1 kV dc	-	-	
Materials				
Housing	Zinc diecast	•	•	
Adapter	Polyamide PA 6	•	•	
Strain relief clamp	POM	-	•	
Contacts	Bronze CuSn	•	•	
contacts	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 2		•	
Stranded wire	0.141 - 0.355 mm ² (AWG 26 / 7 - 22 / 1	7) •	•	
Environmental				
Operating temperature	-10 °C to +60 °C	•	•	
Storage temperature	-40 °C to +70 °C	•	•	
Flammability	UL94HB	•	•	
Protection class	IP65	•	•	
Ordering Informa	tion CAT6			
Cable Connector				
NE8MC6-MO	RJ45 cable plug with carrier offering	a robust metal shel	l 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 she Custom length in meter steps on requ	ll, standard lengths	: 1, 2, 3, 5, 10, 30 m	
Receptacle				

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







Push Pull locking

USB type B

USB Patch Cable

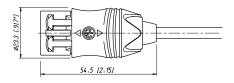




NKUSB-*

- 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

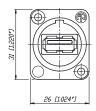
NAUSB-W-B

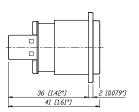


NAUSB3-B

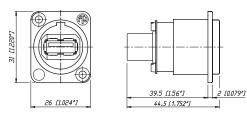
- Rugged USB 3.0 feedthrough adapter
- Standardized D-shape housing
- Reversible insert offering type A or B on front or rear end
- Optional screen to chassis grounding
- Nickel and black chrome plating available

NAUSB-W





NAUSB3





Technical Data

Mechanical an	d Electrical	Receptacle	Patch Cable
Conform with USB 2.0 St	tandard	•	٠
Material			
Shell	Zinc diecast (ZnAl4Cu1)	•	•
Shell plating	Nickel or black Chrome	•	Nickel
Insert		PBTP 15% GR	PVC
Contacts	Brass (CuZn39Pb3)	•	•
Contact finish	Gold	•	•
Environmenta	I		
Operating temperature	-25 °C to +85 °C	•	•
Flammability	UL94 V-0	•	•
Protection class	IP65	•	•

Ordering Information

-						
•	h	2	C	C	п	C
~		а	ъ	ъ	Ц	e

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-*



SCDX

SCCD-W



SCD-W



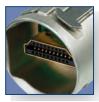
SCDP-*

DSS-** SCDP-*	Lettering plate for D series, colored plastic 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, IP42 rated
SCCD-W	Spring-loaded cover seals for D-size chassis connectors, IP65 rated
SCD-W	D-Size sealing cap, IP65 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 2.0





D-shape metal housing

HDMI 2.0 receptacle



HDMI Receptacles

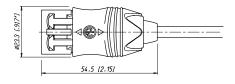


HDMI Patch Cable

NKHDMI-*

- HDMI 2.0 data rate up to 14.4 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-*



** ... 10 m cable complies with HDMI 1.4 specification.

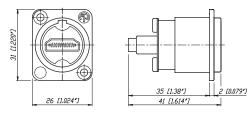




NAHDMI-W

- Audio / Video interface to transmit any digital TV and PC Video format including high-definition video (HDTV).
- HDMI 2.0 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

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



D-SUB data connector



D-shape metal housing



9 pole or 15 pole available

D-SUB Feedtrough

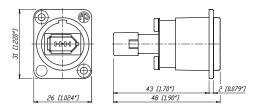




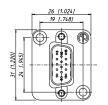
NADB15FF

- 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



34.3 (1.350) 24 [.945] 3.5 [.138]



Technical Data

Mechanical and	Electrical	HDMI Receptacle	HDMI Patch Cable	Firewire	D-SUB
Conform with Standards		HDMI 2.0	HDMI 2.0	IEEE	-
Material					
Shell	Zinc diecast (ZnAl4Cu1)	•	٠	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	•	•	٠	•
Flammability	UL94 V-0	•	•	•	•
Protection class	IP65	•	•	-	-

Ordering Information

HDMI

Chassis

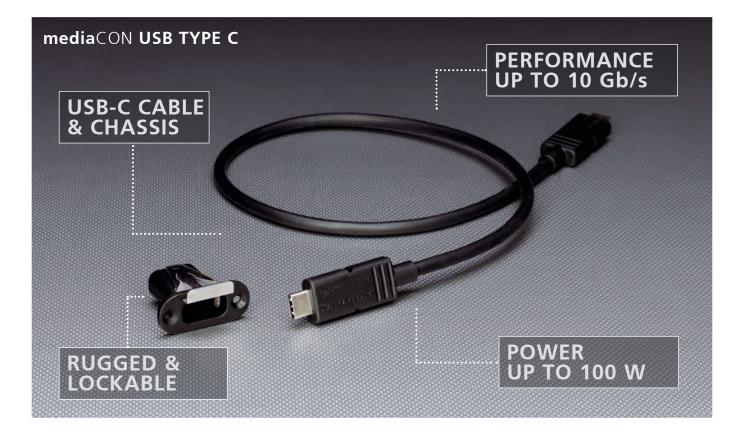
	NAHDMI-W	HDMI – HDMI Adapter, sealing ring, optional grounding, nickel housing
NAHDMI-W-B HDMI – HDMI Adapter, sealing ring, optional grounding, black housing	NAHDMI-W-B	HDMI – HDMI Adapter, sealing ring, optional grounding, black housing

Firewire	
NA1394-6-W	6 pole Firewire Adapter (IEEE 1394), sealing ring, optional grounding, nickel housing
NA1394-6-W-B	6 pole Firewire Adapter (IEEE 1394), sealing ring, optional grounding, black housing
Patch Cable	
NKHDMI-*	HDMI 2.0 cable with overmolded flex relief and metal cable carrier, standard lengths: 0.6, 1, 3, 5, 10 m
	(combination with NEUTRIK chassis up to 5 m cable length HDMI 2.0, cable length of 10 m complies with HDMI 1.4 specification)

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





mediaCON the new USB-C multimedia solution

The innovative USB-C multimedia system for demanding broadcast and professional A/V applications.

Due to the increasing digitalization in the broadcast and A/V market. NEUTRIK has decided to launch the brand-new mediaCON USB Type-C series.

NEUTRIK built a push/pull lockable and space-saving mediaCON chassis which can be mounted from the rear and front side as well.

The mediaCON cable guarantees the performance of 10 Gb/s and up to 100 W of power.

The overmolded housing of the cable is designed for a ruggedized strain relief and protects the housing from mechanical stress.







USB Type-C cable with over molded flex relief and rugged cable

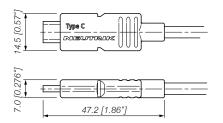
USB Type-C Cable



NMK-20U-*

- Guaranteed performance up to 10 Gb/s (USB 3.1 Gen.II compatibility)**
- Push Pull mating design provides secure locking system if mated with NMC-*
- Reversible USB-C housing Provide power up to 100 W (@5A/20V)
- Shielded connection high noise immunity and EMI protection
- Mates with conventional USB-C receptacles

NMK-20U-*





** ... Performance will vary depending on your additional hardware and software components and configurations.



m e d i a C O N



Lockable USB Type-C chassis



Lockable USB Type-C chassis and integral USB IF-approved receptacle

USB Type-C Chassis & IF



USB Type-C Chassis

NMC-C

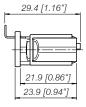
- Push Pull mating design provides secure locking system if mated with NMK-20U*
- Reversible USB-C housing
- Front and rear side mountable
- Guiding housing for better protection of receptacles

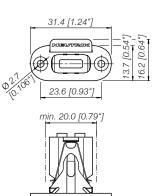


NMC-C-HR

- Push Pull mating design provides secure locking system if mated with NMK-20U*
- Reversible USB-C housing
- Front and rear side mountable
- Guiding housing for better protection of receptacles
- With integrated USB IF approved receptacle

NMC-C







Technical Data

Specification		NMK-20U-* Cable	NMC-C Chassis	NMC-C-HR Chassis with IF
Electrical				
Rated current per contact	5 A	•	-	•
Rated voltage	20 V	•	-	•
Insulation resistance	10 MΩ	•	-	-
Conductor resistance	3 Ω	•	-	-
Transmission Performance	100 W	•	-	-
Materials				
Shell	TPE - Thermoplastic Elastomer	•	-	-
	Polyamide PA 6	-	•	•
Cable Jacket Type	PVC - Polyvinyl Chloride	•	-	-
Contacts	Brass CuZn37	•	-	-
Contact plating	Au	•	-	-
Latch lock & spring	Ck 67 steel, treated	-	•	•
Mechanical				
Life time (mating cycles)	> 10`000	•	•	•
Locking force	50 N	-	•	•
Locking device	latch lock	-	•	•
Orientation	Right Angle	-	•	•
PCB Mounting	HYBRID SMT+DIP	-	•	•
PCB surface center	1.58 mm	-	•	•
Environmental				
	-25 °C to +85 °C	•	•	•
Operating temperature Standard compliance			•	
	USB 3.1 Gen II; USB 3.2 UL94HB	•	•	•
Flammability		•		
Environmentally Compliant	RoHS and Halogen Free	•	•	•

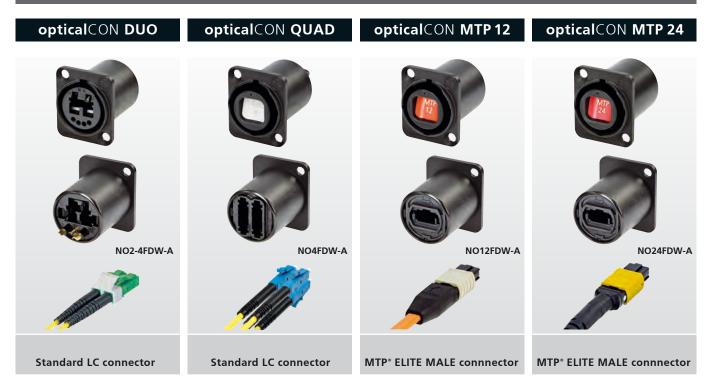
Ordering Information

Cable	
NMK-20U-*	Lockable USB Type C cable with over molded flex relief and rugged strain relief *length 0.5 m or 1.0 m
Chassis	
NMC-C NMC-C-HR	Locking USB C Type chassis Lockable USB Type C chassis with integrated USB IF approved receptacle





opticalCON Chassis





opticalCON ADVANCE	D		
opticalCON DUO	opticalCON QUAD	opticalCON MTP12	opticalCON MTP 24
NKO25-A*	NKO4S-A*	NK0125A*	NKO245A*
 4 copper contacts 2 fibers	• 4 fibers	• 12 fibers	• 24 fibers

opticalCON LITE







DRAGONFLY

opticalCON®





opticalCON DRAGONFLY

opticalCON DRAGONFLY is a ruggedized and low maintenance hybrid cable connector for indoor and outdoor use.

CAMERA CONNECTOR SYSTEM

NEUTRIK's new fiber optic connector series offers advanced lens technology for the Broadcast and AV Market. opticalCON DRAGONFLY is more robust, reliable and easier to maintain than common hybrid camera signal transmission systems.

With technology based on fiber lenses and fusion splicing, NEUTRIK's DRAGONFLY achieves an extremely robust signal with minimal loss. opticalCON DRAGONFLY combines all the advantages of lens technology and makes it competitive with physical contact connectivity.

The DRAGONFLY connector offers long life with very low maintenance. It can also withstand harsh and demanding environments and is dust and moisture insensitive. Additionally, DRAGONFLY is robust against vibration and therefore has low potential for damage. And if there ever is a problem, DRAGONFLY is field repairable. With this new technology, DRAGONFLY provides a complete solution for the Broadcast and AV Market.

INNOVATIVE AND FUTURE PROOF

- Fusion splice technology field repairable
- High performance low loss
- Consistent quality
- 100% reliable even at extreme temperature fluctuations
- Permanent connection

SIMPLE AND EFFICIENT

- Hybrid connection power and data over one connection
- Low maintenance interval
- Easy switching to DRAGONFLY fits into standardized cutouts
- · Easy cleaning with compressed air and water
- Competitive price

ROBUST AND RELIABLE

- Extremely robust system
- Reliable push/pull locking mechanism
- Dust and waterproof according to IP68
- Proven anti-kink boot design
- Long life 10,000 mating cycles

opticalCON Technical Data

 For more information visit our website www.neutrik.com.





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Definitions, Abbreviations & Useful Information

ELEMENT	rs
Ag	Silver
AI	Aluminium
Au	Gold
Со	Cobalt
Cr	Chromium
Cu	Copper
Ni	Nickel
Р	Phosphorus
Pb	Lead
Pd	Palladium
Sn	Tin
Zn	Zinc
SS	Stainless Steel

MEASUREMENT LEGEND

Ν	Newton							
Ω	Ohm							
μ	Micro							
OD	Outside I	Diameter						
m	Meter(s)	Meter(s)						
k	Kilo							
ENGLISH TO	METRIC C	CONVERSIONS						
1/8 inch	3.175	millimeters (mm)						
1/4 inch	6.35	millimeters (mm)						
1 inch	25.4	millimeters (mm)						
	2.54 cm	1 inch						
1 foot	30.48	centimeters (cm)						
	0.305	meter (m)						
6 foot	1.828	meters (m)						
50 foot	15.24	meters (m)						
100 foot	30.48	meters (m)						
1000 foot	304.8	meters (m)						
METRIC TO E	NGLISH (CONVERSIONS						
1 centimeter	0.3937	inches						
1 meter	39.37	inches						
3.281 meter	10	feet						
10 meters	32.808	feet						
50 meters	164.041	feet						
100 meters	328.084	feet						

OTHER ABBREVIATIONS

ALLOYS, PLASTICS, POLYMERS

CuZn39Pb3

Carbon Steel

Polyamide

Polyacetal

Polyurethane

Ethylene Propylene

Polybutylene Terephthalate

PolyTetraFluoroEthylene (TEFLON)

Glass Reinforced

Brass (Alloy)

Ck 67 EPDM

GR

PA

PBTP

POM

PTFE

PUR

Bronze (Alloy) CuSn6

UL®	Underwriters Laboratories	10	ENEC – European norms electrical
IP Rating	Ingress Protection rating for objects and		certification, demonstrates compliance
	water ACC IEC529/EN60529		with European safety standards.
IEC	International Electrotechnical Commission	DYE	VDE Association for Electrical, Electronic
	is the international standards and		and Information Technologies e.V.
	conformity assessment body for all fields	AWG	American Wire Gauge
	of electrotechnology		
7/	UL Recognized Component Mark		

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



NEUTRIK[®] Part Number Guide

NC3FAH1-B-0-D

NCSF	AHI-B-U-D											
		Packaging:	D	Cable connector: bulk packed								
		Assembly:	D	Chassis connector: disassembled push latch								
		Retention:	w/o	Latch lock								
			-0	Retention spring								
			-DA	Asymmetric PUSH								
		Shell:	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 Pin 1								
			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) Mounting holes with M3 thread								
			M3									
			M25	Mounting holes with M2.5 thread								
			-	Not applicable								
		Series:	A, AA, B, D, DL, DLX, MPR, P, PX, RX, X, XX									
		Gender:	F	Female								
			M Male									
		Number of Contacts: 2, 3, 4, 5, 6, 7, 8, 12										
		Connector Type:	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								
			Μ	Module								
			0	opticalCON - Fiber Optic Connector								
			Р	Plug								
			PP	Patch Panel								
			R	Circular Connector								
			т	Transformer								
			ТОР	True Outdoor Protection								

Definitions, abbreviations & useful information see page 33.



NEUTRIK[°] Product Line





The premium brand of the Neutrik Group

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