

# 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 achieved 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 CAT6A range it is customers choice to use the IP 65 protected receptacles or the unprotected versions.



Rugged diecast shell



Feedthrough



IDC Version



IP 65 Protected

etherCON

## etherCON CAT6A Series



NE8MX6



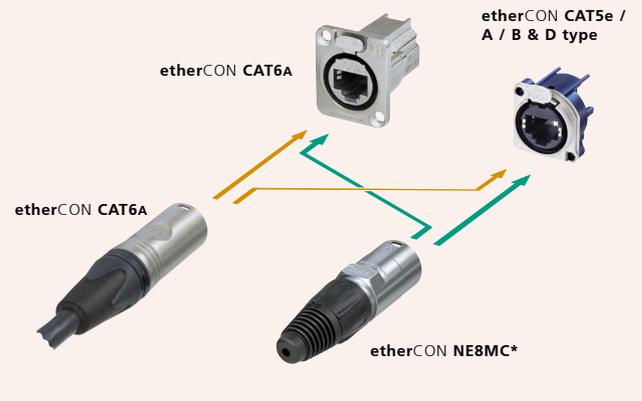
NE8FDX-P6



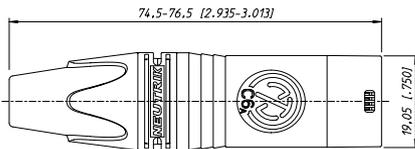
NE8FDX-Y6-W

- Ruggedized connector range with CAT6A 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

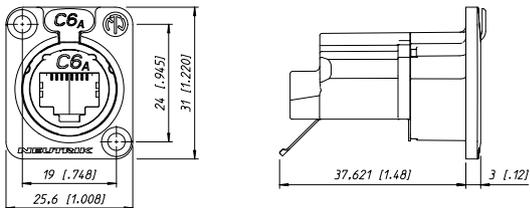
### CAT6A / CAT5\* compatibility:



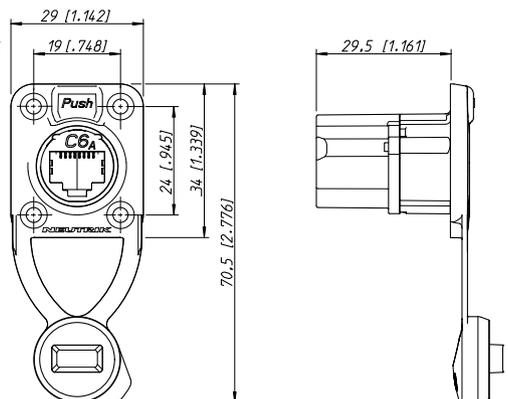
NE8MX6



NE8FDX-Y6



NE8FDX-P6-W



## Technical Data

		Receptacle	Cable connector
<b>Electrical</b>			
Number of contacts	8	●	●
Rated current per contact	1.5 A	●	●
TIA / EIA rating	CAT6A	●	●
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	Latch Lock	●	●		
Life 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	NE8MX6(-B):	AWG 24/1 - 22/1
	stranded wire		AWG 26/7 - 22/7		AWG 24/7 - 22/7
Insulation diameter			> 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 diameter		-			> 0.85 - 1.10 mm

## Environmental

Operating temperature / Storage temperature	-40 °C to +70 °C	●	●
Flammability	UL94V-0	●	●
Protection class	IP 65 in combination with "-W" receptacle	●	●

## Ordering Information

Cable Connector		Receptacle	
NE8MX6	CAT6A, nickel plating, ≥ AWG 24	NE8FDX-P6	CAT6A shielded feedthrough, nickel plating
NE8MX6-B	CAT6A, black plating, ≥ AWG 24	NE8FDX-P6-B	CAT6A shielded feedthrough, black plating
NE8MX6-T	CAT6A, nickel plating, ≤ AWG 24	NE8FDX-Y6	CAT6A shielded IDC, nickel plating
NE8MX6-B-T	CAT6A, black plating, ≤ AWG 24	NE8FDX-Y6-B	CAT6A shielded IDC, black plating
		NE8FDX-P6-W	CAT6A shielded feedthrough, with integrated rubber sealing cap, IP 65
		NE8FDX-Y6-W	CAT6A shielded IDC, with integrated rubber sealing cap, IP 65

## 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 CAT6A Series	XXCR	Translucent coding ring (see page 38)



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



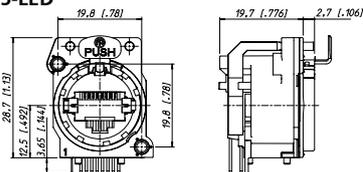
NE8FDV-Y110-B



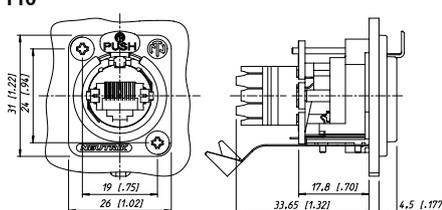
NE8FDH-C5E

- 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

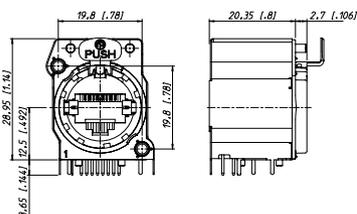
NE8FBH-C5-LED



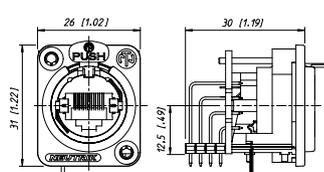
NE8FDV-Y110



NE8FBV-C5-LED-S



NE8FDH-C5E





Horizontal PCB



Vertical PCB



NE8FDV-SE – Vertical PCB receptacle combined with waterproof kit

etherCON – Receptacles



NE8FAV + ACRF-2



NE8FBH



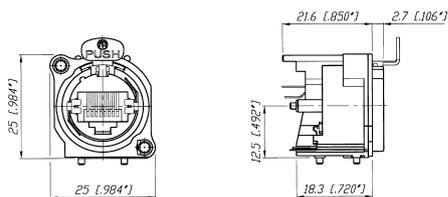
NE8FDV



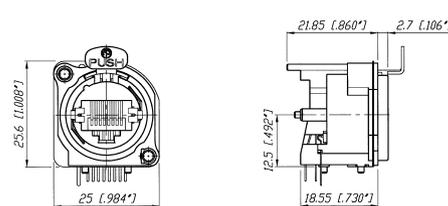
NE8FDV-SE

- "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
- 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)

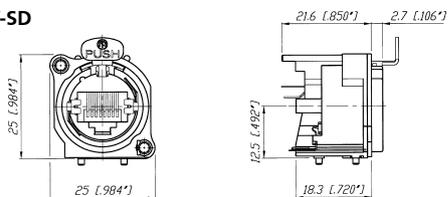
NE8FAV



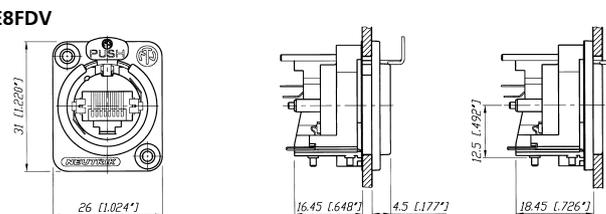
NE8FBH



NE8FAV-SD



NE8FDV





Completely closed housing



Light pipe



NE8FDP-R rear side



Locking latch



Rugged aluminium extrusion housing

## Shielded & Lighted



NE8FBH-S



NE8FBH-LED



NE8FDP-R

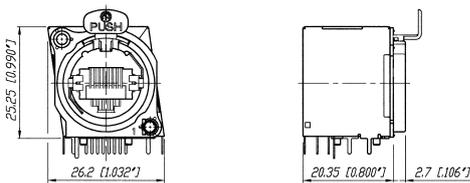


NE8FF

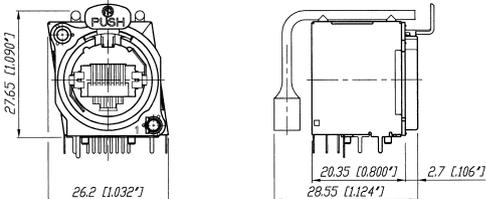
- Comprehensive shielding granted by completely closed metal housing
- Improves EMC performance of appliance even in unmated condition
- Light pipes illuminated by standard 3 mm LEDs – to be mounted on PCB by customer
- Receptacles comply with class D Link performance.

- 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

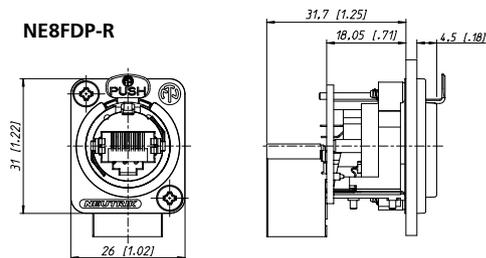
NE8FBH-S



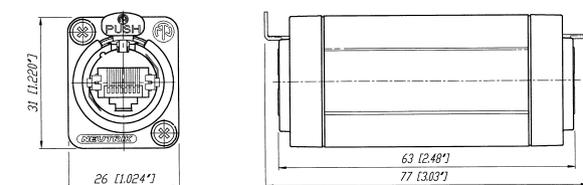
NE8FBH-LED



NE8FDP-R



NE8FF





Rugged diecast shell



Colored coding  
Bushing

## etherCON – Cable Carriers



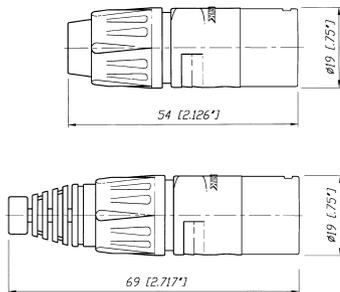
NE8MC-1



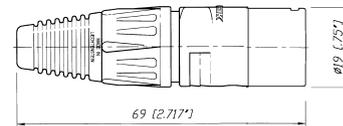
NE8MC-B

- 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



Specification		NE8MC* Cable Con.	NE8FA/B* (A + B Series)	NE8FD* (D Series)
<b>Electrical</b>				
Number of contacts	8	- <sup>1)</sup>	●	●
Rated current per contact	< 1.5 A	- <sup>1)</sup>	●	●
Rated voltage	< 50 V ac	- <sup>1)</sup>	●	●
Contact resistance	< 10 mΩ	- <sup>1)</sup>	●	●
Insulation resistance	> 500 MΩ	- <sup>1)</sup>	●	●
Dielectric strength	> 1'000 V ac rms	- <sup>1)</sup>	●	●
Frequency bandwidth	1 - 100 MHz	- <sup>1)</sup>	●	●
Transmission class acc. TIA / EIA 568B or IEC 11801	- CAT 5e	- <sup>1)</sup>	NE8*-C5* / NE8FA*-Y*	NE8FD*-C5e / NE8FD*-Y*
	Class D	- <sup>1)</sup>	●	●
PoE + acc. IEEE 802.3at		- <sup>1)</sup>	●	●
<b>Mechanical</b>				
Retention method	latch lock	●	●	●
Life time (mating cycles)	> 1'000 mating cycles	●	●	●
	> 200 mating cycles	-	-	SE8FD
Insertion / withdrawal force	≤ 20 N	●	●	●
Cable O.D. range	3.5 - 8 mm	●	-	-
Wire size	AWG 26 – 20	- <sup>1)</sup>	NE8*-Y*	NE8*-Y*
Panel thickness	max. 3 mm / 0.12"	-	●	4 mm / 0.16"
<b>Material</b>				
Housing	PBT D202G30	-	●	●
	Zinc diecast (ZnAlCu1, gal Ni / bl Cr / Chromium)	●	-	-
B / D-flange	Zinc diecast (ZnAlCu1, gal Ni / bl Cr)	-	●	●
Strain relief clamp	POM	●	-	-
Contacts	CuZn35Pb2, Tin plated	-	NE8*-Y*	NE8*-Y*
	Bronze (CuSn8)	- <sup>1)</sup>	●	●
	Spring steel	NE8*C5*	●	●
Contact surface	Au (gal 0.2 μm over Ni plating)	- <sup>1)</sup>	●	●
Locking Element	Ck 67 steel, treated	-	●	●
Bushing	Polyamide (PA 6 15% GR)	●	-	-
Boot	Polyamide (PA 6)	●	-	-
Sealing gasket	EPDM	-	-	SE8FD
<b>Environment</b>				
Operating Temperature	-30 °C to +80 °C	●	●	●
	-20 °C to +60 °C	-	-	SE8FD
Protection class	IP 54	-	-	SE8FD
Flammability	UL94V-0	UL94 HB	●	●
Solderability complies with	IEC 68-2-20	-	PCB Version	PCB Version
Mating screw		-	A screw	E screw
Color coding		BSE-* / BSX-*	ACRF-*	DSS-*
<b>Footnote</b>				
<sup>1)</sup> : Specs depend on type of RJ45 plugs used				

## Ordering Information

	Shape				Termination					Remarks
	A	B	D	H	V	IDC	IDC 110	LED	S	
<b>CAT 5e Receptacle</b>										
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*; 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 plating
NE8FF			•							coupler, black plating

## CLASS D Receptacle

NE8FAH	•			•						
NE8FAV	•					•				
NE8FAV-SD*	•					•				Screw dome
NE8FBH		•		•						
NE8FBV		•				•				
NE8FDV			•			•				
NE8FDV-SE			•			•				with sealing kit SE8FD

## Cable Carriers

NE8MC	Cable housing with chuck and bushing (two antikink boots, one up to 5 mm and one up to 8 mm cable O.D.) (standard bushing in black, 9 different coding 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)											
NE8MC-B-1	Black chromium housing with chuck and X-series bushing (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							S .....	shielded metal housing		
	V .....	Vertical PCB mount							* .....	Including 2 mounting screws		

## Accessories



A screw



E screw



E screw Nickel



ACRF-\*



DSS-\*



BSE-\*



BSX-\*



SCDP-\*



SCDX



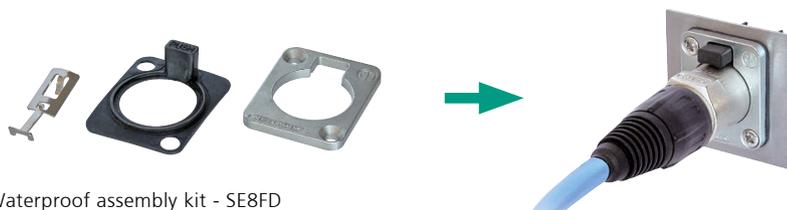
SCCD-W

A-Screw	Mounting screw for A / B -shape (black self-tapping PLASTITE® screw 2.9 x 8, panhead)
E-Screw	Mounting screw for D-shape (black self-tapping PLASTITE® screw 2.9 x 12, countersunk)
E-Screw-Ni	Mounting 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 connectors
DSS-*	Lettering plate for D series, colored plastic
NZP1RU	Panel1RU D-shape housing
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 to seals for D-size chassis connectors, IP 65 rated

\*: 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)
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Push Pull locking



IP65 in mated condition



D-shape metal shell



Closed shielding

## CAT6 Patch Cable

## CAT6 Receptacles



NKE65-\*

NE8MC6-MO



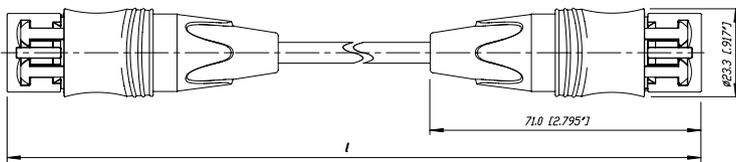
NE8FDY-C6



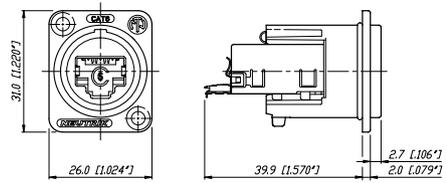
NE8FDY-C6-B

- 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

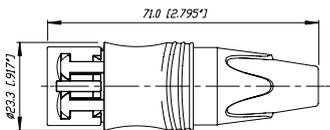
NKE65-\*



NE8FDY-C6



NE8MC6-MO



## Technical Data

		Receptacle	Patch Cable
<b>Electrical</b>			
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 <sup>2</sup> (AWG 24 - AWG 22)	•	•
Stranded wire	0.141 - 0.355 mm <sup>2</sup> (AWG 26 / 7 - 22 / 7)	•	•

## Environmental

Operating temperature	-10 °C to +60 °C	•	•
Storage temperature	-40 °C to +70 °C	•	•
Flammability	UL94HB	•	•
Protection class	IP 65	•	•

## Ordering Information CAT6

### 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

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

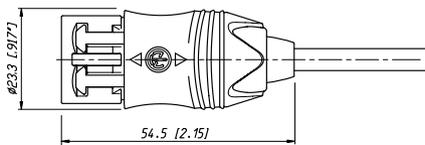
## U S B   P a t c h   C a b l e



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

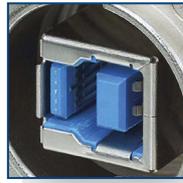




D-shape metal housing



USB type B



USB 3.0 Type B



Rugged housing

## USB 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

## USB 3.0 Receptacle



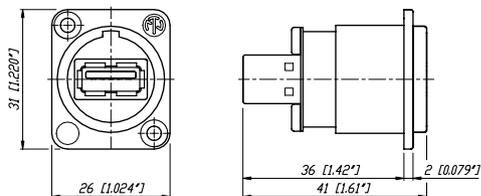
NAUSB3



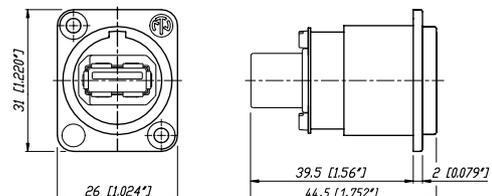
NAUSB3-B

- 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 and Electrical

	Receptacle	Patch Cable
Conform with USB 2.0 Standard	•	•

### 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
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### Accessories



DSS-\*



SCM



SCDX



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
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





Push Pull locking



HDMI 1.4



D-shape metal housing



HDMI 1.4 receptacle



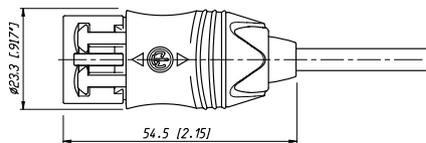
## HDMI Patch Cable



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-\*



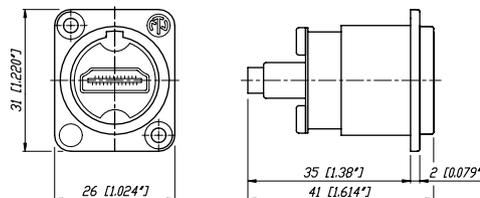
## HDMI Receptacles



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

### NAHDMI-W



# Firewire Adapter



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

## D-SUB Feedthrough

**NEW**



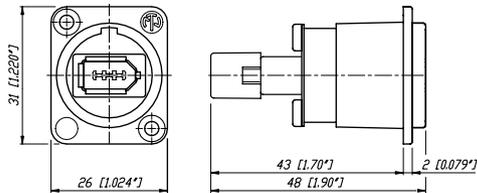
NADB9MF-B



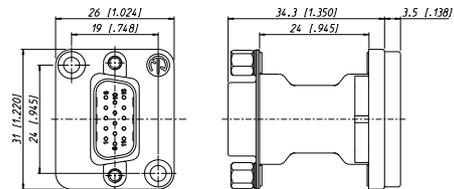
NADB15FF

- 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 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	●	●	●	●
Flammability	UL94 V-0	●	●	●	●
Protection class	IP 65	●	●	-	-

## Ordering Information 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

## 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
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## 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-\*



SCM



SCDX



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

