PRODUCT MANUAL

etherCON® TRUE1® Cable Connector

NTE8MR1-TOP-**S**
NTE8MR1-TOP-**L**

1 PRODUCT



etherCON® TRUE1 Cable Connector
- **NTE8MR1-TOP-S**
- **NTE8MR1-TOP-L**

The product is a rugged RJ45 carrier cable connector with locking feature (receptacle side) for outdoor use.

It offers easy retracting of the shell to set free the RJ45 plug to allow connectivity with commodity RJ45 receptacles.

2 GENERAL

Introducing the latest innovation in ethernet connectivity, expanding the NEUTRIK etherCON® TRUE1 portfolio. Designed to withstand the harshest outdoor conditions, this connector combines durability with versatility, ensuring reliable performance in any environment and application.

With this unique design, the TOP connector allows for the first time to easily retract its shell, providing compatibility with standard RJ45 receptacles. This feature allows flexible and universal usage in various applications.

Please note that the RJ45 carrier cable connector includes an RJ45 plug.
It is designed for use with non pre-assembled cables only.

ATTENTION:
Does not intermate with the CAT6 receptacle NE8FDY-C6 and NE8FDY-C6-B.

A TECHNICAL DATA

Product		
Title		NTE8MR1-TOP-S & NTE8MR1-TOP-L
Product family		etherCON®
Connection type		RJ45 carrier cable connector
Gender		male
IMPORTANT		Cable connectors include RJ45 plug. RJ45 cable assembly must be provided by end user!

Mechanical		
Cable O.D.:	Cable connector S	5.0 - 7.0 mm
	Cable connector L	7.0 - 9.0 mm
Wiresize		AWG26/1 - AWG 27/1 (solid) AWG24/1 - AWG 27/7 (stranded)
Insertion force		≤ 50 N
Withdrawal force		≤ 50 N
Lifetime		min. 1`000 mating cycles min. 100 retracting cycles

Material	
Boot	Thermoplastic elastomer (TPE)
Shell	Zinc diecast (ZnAl4Cu1)
Strain relief	Polyketon (PK)
Sleeve	Polyamid (PA6, Gf15%)

Environmetal	
Protection class	IP65 / IP66 / IP67 (mated) IP65 / IP66 / IP67 (closed sealing cap)
Temperature range	-30 °C to +80 °C

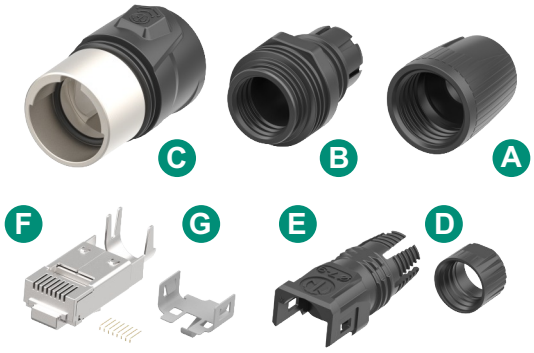
Read the operating instructions carefully, and observe the safety instructions in particular.

If you do not follow the safety instructions and the information on proper handling in this operating manual, we accept no liability for any resulting personal injury or damage to property.

In addition, the warranty/guarantee will become void in such cases.

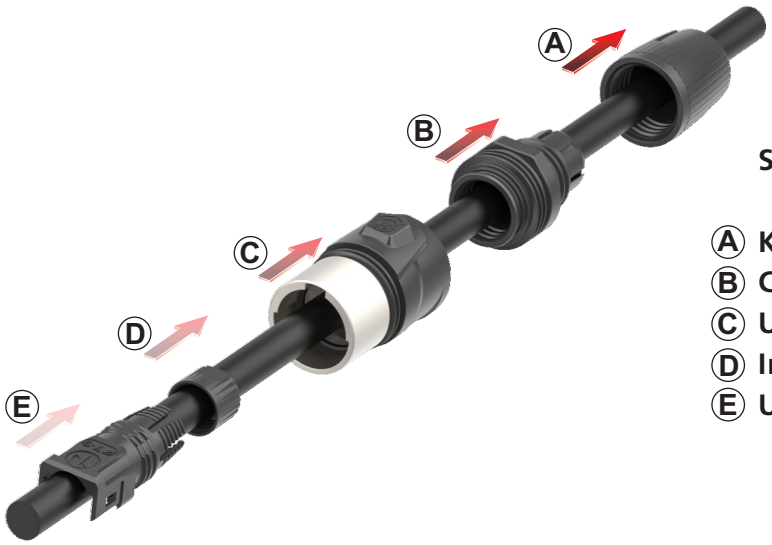
3 ASSEMBLY INSTRUCTION

Step 1 PACKAGE CONTENTS



- Ⓐ King boot
- Ⓑ Connector bushing
- Ⓒ UNICORN front housing
- Ⓓ Inside bushing for
- Ⓔ UNICORN fixation
- Ⓕ RJ45 Plug CAT 6A
- Ⓖ Retaning spring

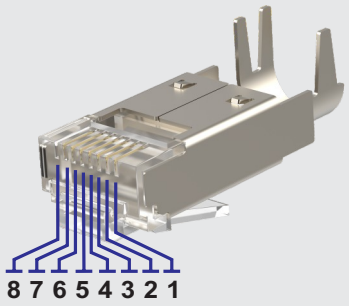
Step 2 ASSEMBLE THE UNICORN CONNECTOR PARTS



Slide parts A - E onto the cable.

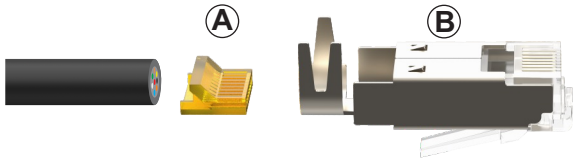
- Ⓐ King boot
- Ⓑ Connector Bushing
- Ⓒ UNICORN Fronthousing
- Ⓓ Inside Bushing
- Ⓔ UNICORN Fixation

Step 3 ASSEMBLE RJ45 PLUG



Consider the cable end termination either according to the TIA 568A or T568B standard.

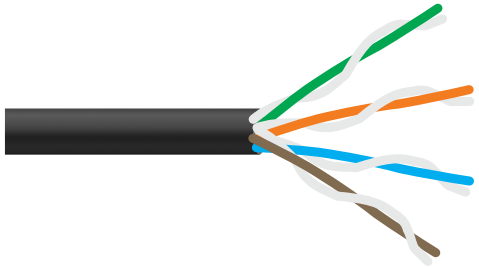
Connection		
RJ 45 PIN No.	Color code T568A	T568B
1	W - G	W - O
2	G	O
3	W - O	W - G
4	BL	BL
5	W - BL	W - BL
6	O	G
7	W - BR	W - BR
8	BR	BR

① 

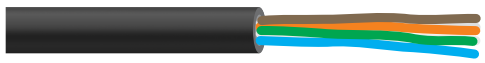
Assemble of the wire manager (A) and RJ 45 plug (B).

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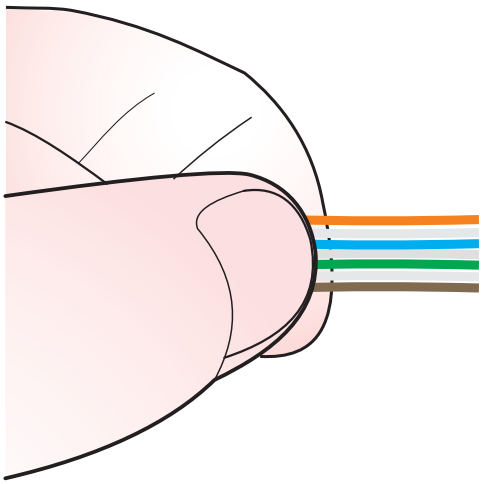
Strip outer jacket 20 mm long.

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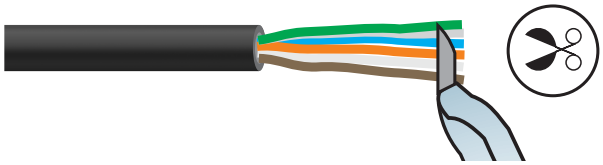
Separate pairs in bundles.

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Straighten and separate into individual leads.

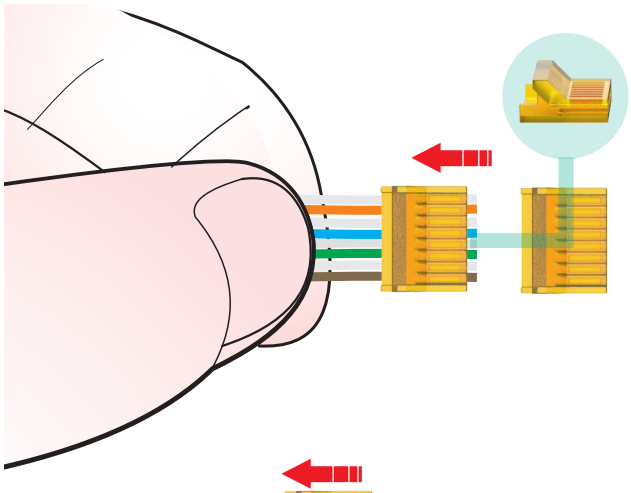
⑤ 

Organize leads into proper order and trim edge to be even.

⑥ 

Wire lead ends shown organized and trimmed.

⑪



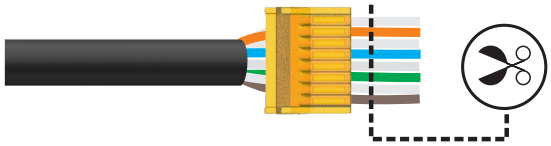
Insert the wire manager and the wires into the open end.

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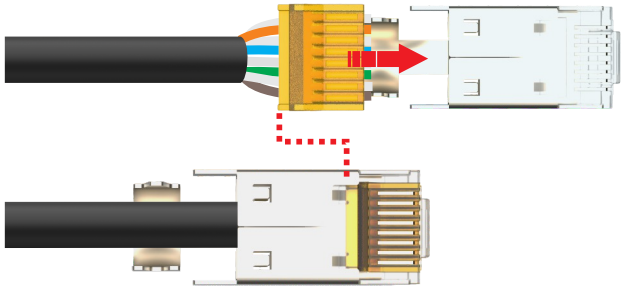
Slide wire manager into position to the end of the wires.

⑨



Trim leads about 1 mm with a straight cut.

⑩

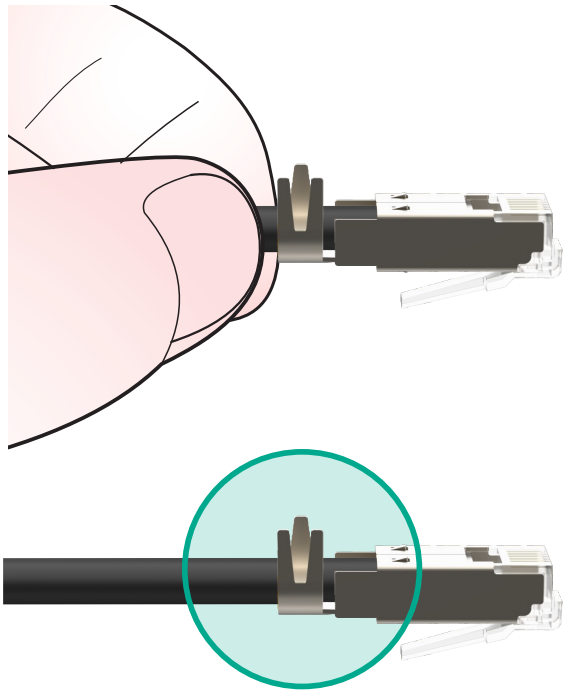


Insert wires and wire manager into RJ 45 plug and push fully forward.

Attention:
Make sure the wire manager locks in all the way. A small flathead screwdriver may be used to push the wire manager into its final position.

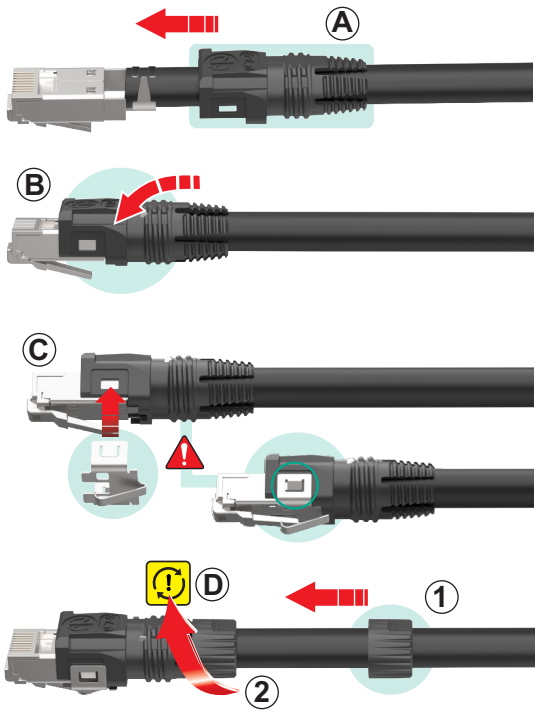
Terminate plug with hand terminator or any other suitable crimp tool.

⑪



In the case of using shielded cable crimp shield to connector.

Step 4 ASSEMBLE CHUCK



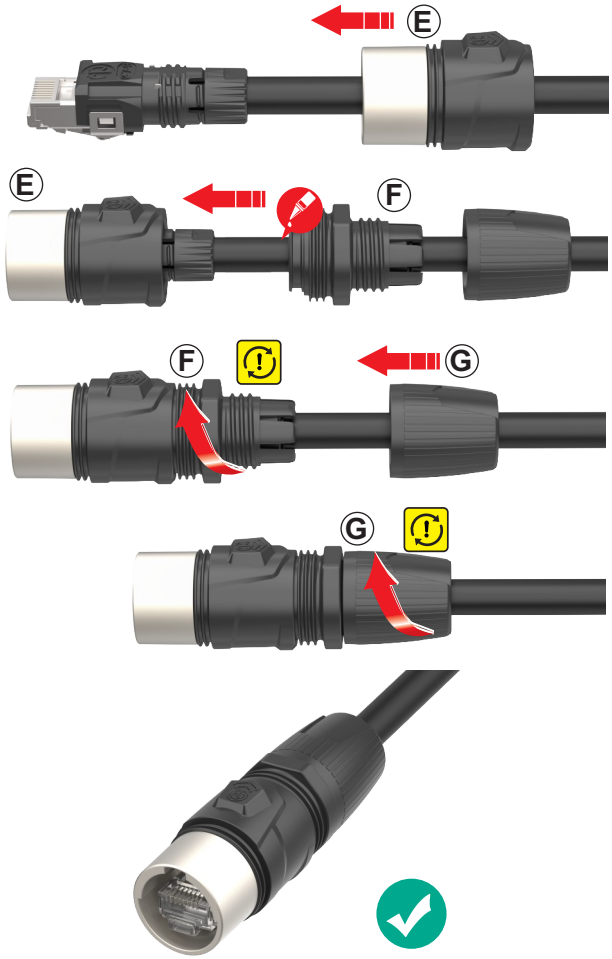
Position the UNICORN fixation onto the RJ45.

Ⓐ Slide the UNICORN fixation over the cable onto the right position of the RJ45
Ⓑ connector and secure it using the
Ⓒ retaining spring.

Ⓓ Tight the bushing onto the fixation.

ATTENTION:
Tightening torque M_A = 0.2 - 0.3 Nm

Step 5 ASSEMBLE HOUSING



Ⓔ Position the front housing over the RJ45 connector until it reaches the stop.

Ⓕ Slide the bushing into the housing and tighten it.

ATTENTION:
Tightening torque M_A = 0.5 - 0.5 Nm

To ease the boot assembly, apply some cable pulling lubricant to the cable ends.

Ⓖ Tight the king boot onto the bushing.

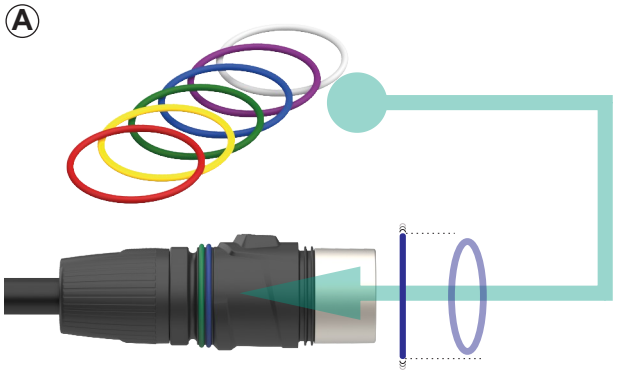
ATTENTION:
Tightening torque M_A = 0.2 - 0.3 Nm

- Repeat the assembly on the other side.

Finished Assembly.

Step 6 ACCESSORIES

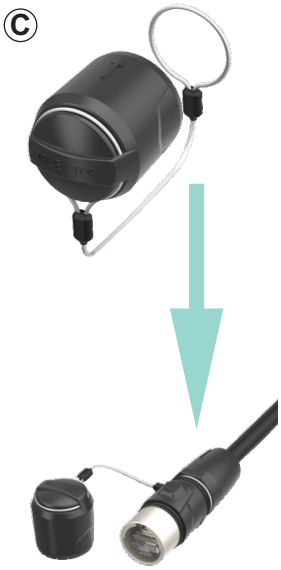
Ⓐ



Ⓑ



Ⓒ



Accessories for etherCON TRUE1 Cable connector.

Ⓐ **NKCR-M***

* 0 1 2 3 4 5 6 7 8 9

Color coding ring for cable connector. Spread the marking ring and position it.

Ⓑ **SCTM-TOP**

Protection cap with leash (no locking). Spread the loop and position it.

Ⓒ **SLCTM-TOP**

Sealing locking cap for cable connectors. Spread the loop, position it, and pull the loop tight.

4 Application and Safety Instructions

A Assembly

- **Ensure the use of appropriate personal protective equipment during the assembly and processing of the product.**
- **Neutrik components must only be assembled with designated and specified parts.**
- **Replacement parts are suitable only when used in combination with the designated components.**
- **The product's characteristics are guaranteed only in the intended combination.**
- **The assembling party is responsible for ensuring proper assembly in compliance with local regulations.**
- **Assembly must be carried out by professionals.**
- **Suitable personal protective equipment must be used during assembly and further processing of the product.**
- **The safety evaluation of this product was conducted according to standard requirements under laboratory conditions.**
- **Product safety in the intended application must be ensured by the respective involved party after assembly to a cable or installation in an electronic device or similar.**

B Application

- The product is exclusively intended for installation in electronic equipment or similar devices.
- The product is not intended for use in medical applications.
- The product is not intended for use in potentially explosive or flammable environments.

C Operation

- Before plugging in, check the contact area for dry surfaces.
- Product surfaces may cause burns at elevated ambient temperatures. Ensure the use of appropriate protective equipment.
- Neutrik products and components should only be combined with designated Neutrik Group brands and components.
- To ensure IP65, IP66 & Ip67 protection in the unconnected state, use the designated accessories.
- If visible damage is present, the product should be checked for suitability.
- When using with other products, suitability and safety must be assessed before commissioning and appropriate safety measures taken if necessary.
- Children must be supervised to ensure they do not play with the product.

D Cleaning

- Clean only with dry and lint-free materials or compressed air.
- The product must not be cleaned while under load. It may only be cleaned when it is not connected to any voltage and without the use of cleaning agents.

E Damages

- Handle products with care.
- In case of visible damages, check the suitability of the product for use.
- The product must be protected from mechanical impacts. Avoiding mechanical influences is the responsibility of the operating party.

F DISPOSAL



Electronic devices are recyclable materials and do not belong in household waste. Dispose of the product at the end of its service life in accordance with the applicable legal regulations.

5 More Information on the website

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