

Pen Style Fiber Optical Connector Cleaner NEOCLEAN-E User Manual



Please read this manual carefully and ensure that this product is used in a proper manner as described below.

1. Introduction

Thank you for purchasing the fiber optical connector cleaner, "NEOCLEAN-E." This product is a pen-shaped optical connector cleaner with a replaceable cleaning cartridge. Contamination on the end face of optical connectors can be removed by a simple push that provides a consistent and dependable cleaning every time. In addition, the "NEOCLEAN-E" has antistatic properties that prevent dust from re-adhering to the ferrule end face and makes it safe to use in situations where static electricity must be avoided.

2. Applicable Optical Connectors

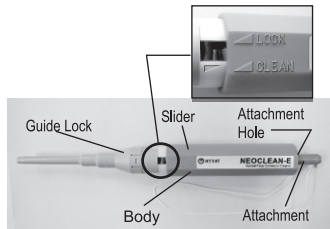
This product can be applied to optical connectors with a ferrule diameter of $\Phi 1.25$ mm which includes MU, LC, MU/APC, and LC/APC and ferrule diameter of $\Phi 2.5$ mm including SC, FC, SC/APC, FC/APC, etc. Please refer to section 8 for the model number appropriate for each optical connector.

* NEOCLEAN is a trademark of NTT Advanced Technology Corporation.

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5. Cleaning Method

The NEOCLEAN-E has two positions, "CLEAN", and "LOCK". Use the "LOCK" position when replacing the cartridge or putting on the attachment. Switch between the "LOCK" and the "CLEAN" position by holding the guide lock and rotating the slider until it reaches the proper position. When cleaning, match the "LOCK" mark on the body to the "CLEAN" mark on the slider.

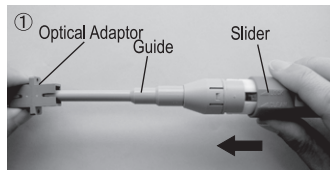


(1) Optical Connector Ferrule inside an Optical Adaptor

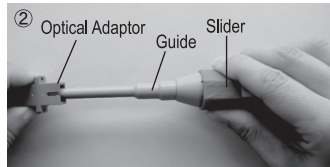
First, remove the attachment from the guide, and store it in the attachment hole on the handle.

① Insert until the guide tip touches inside the optical adaptor and then push the slider.

The cleaning string is advanced and the cleaner rotates, cleaning the optical connector ferrule.



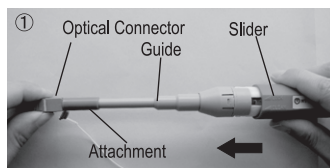
② Cleaning ends when the slider is pushed all the way. When pressure is relieved the slider naturally returns to its starting position, ready for the next cleaning. Pull out the cleaner from the adaptor to end the cleaning process.



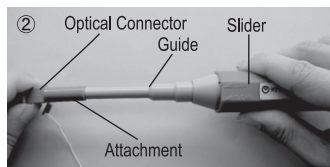
(2) Optical Connector Ferrule (no adaptor)

First, place the attachment on the guide tip. When placing the attachment, it is recommended to set to the "LOCK" state to avoid blank wiping.

① Remove the cap from the end of the attachment and insert the connector into the tip hole. Hold the connector firmly in your hand and in this fixed position push in the slider. The cleaning string is advanced and the cleaner rotates, cleaning the optical connector ferrule.



② In the same way as (1)-②, push the slider all the way and then relieve pressure, the slider naturally returns to its starting position, ready for the next cleaning. Remove the connector from the attachment to end the cleaning process.



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3. Safety Instructions

 Warning	<ul style="list-style-type: none"> ● This product is designed for cleaning optical connector ferrule. Do not use for other than intended purposes. ● Do NOT store in direct sunlight, and avoid hot and/or humid environments. ● This product has a long, thin pointed tip component. Accidental eye contact may cause blindness or other serious eye injury. Please use caution when handling. ● Please use appropriate caution to avoid injuries caused by implements when using this device in narrow locations.
 Prohibited	<ul style="list-style-type: none"> ● Please do not use for cleaning optical adaptors or connector in a narrow place where this product can not satisfactorily be inserted or operated. Forcibly inserting it into such a location may cause breakage of this product as well as possible damage to the cleaning target device. ● Please keep out of the reach of children and never use for anything other than the intended purpose. ● Do not disassemble this product.

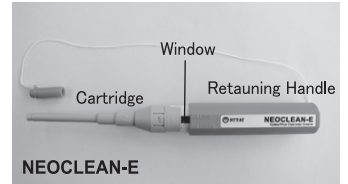
4. Description of Component Parts

The NEOCLEAN-E product is composed of a replaceable cartridge containing the cleaning string and the retaining handle which holds it. The handle unit and cartridge are sold as one units, while replacement cartridges may also be purchased separately.

Cartridge:

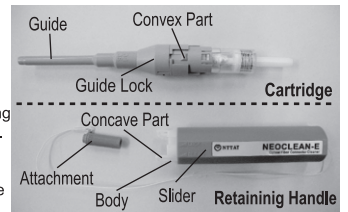
The cartridge is composed of the guide which positions the cleaner on the ferrule end face and also contains the cleaning string, the string reel (not shown in the figure), and guide lock which holds the guide firmly in the retaining handle.

One cartridge can perform about 750 cleaning operations. A green tape appears in the viewing window to indicate that it is time to replace the cartridge. There are two types of the guide, one for SC and FC and the other for MU and LC. The square tip of the guide is for MU and LC, and the cylindrical tip is for SC and FC.



Retaining Handle:

The retaining handle is composed of the slider mechanism that advances the cleaning string while rotating the head, the main body, the pressure spring (not shown in the figure), and the head attachment. The concave part of the body connects with the convex part in the cartridge. Different attachments for different connectors are fixed to the slider, so the holding handle also depends on the connector. Please make sure the cartridge is correct for your handle when purchasing a replacement cartridge.



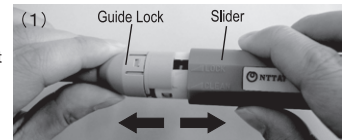
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6. Replacing the Cartridge

When replacing the cartridge, move the "LOCK" mark on the body to match the "CLEAN" mark on the slider.

(1) Removing the Cartridge

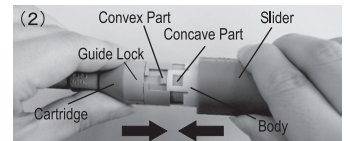
Remove the attachment from the guide, and store it in the attachment hole on the handle. When changing the cartridge with the attachment on the guide, the attachment may break. Holding the slider and the guide lock in both hands pull them straight apart from both sides. Be careful not to bend or twist the guide lock or slider while pulling them apart.



(2) Attaching the Cartridge

① Match the convex part of the cartridge to the concave part of the body and push the slider and the guide lock straight in.

② Confirm that the convex part of the cartridge is locked into the concave part of the slider body to complete the cartridge attachment.



※ Excessive use of the handle will cause deterioration and malfunction. The standard for replacing cartridges is 3 times per handle.

7. Storing the Cleaner

Store away from high temperature and humidity.

8. Part Model Numbers

MU, LC use ($\Phi 1.25$ mm)		SC, FC, FAS, FA use ($\Phi 2.5$ mm)		SC, FC, ST, E2000 use ($\Phi 2.5$ mm)	
Main Unit	Cartridge	Main Unit	Cartridge	Main Unit	Cartridge
ATC-NE-E1	ATC-NE-ES1	ATC-NE-E2	ATC-NE-ES2	ATC-NE-E3	ATC-NE-ES3

9. Product Disposal

For proper disposal, please follow the guidelines in your area.

• Inquiries

NTT Advanced Technology Corporation
http://www.ntt-at.com/product/optical_cleaner/



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