



## Technical Introduction

Dust and foreign material may interrupt fiber signal transmission if they adhere to the connecting surface of a fiber-optic connector. This may not only deteriorate transmission quality, but also cause burnout of fiber endfaces if a high-energy laser is used. Therefore, it is vital to clean the connecting surface before a connection is to be made. NTT-AT has developed new types of cleaners for removing dust and foreign materials.

## Products Line

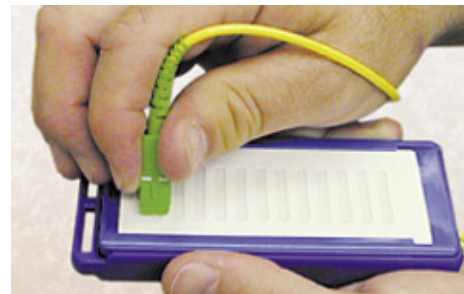
### Cleaners:

- 1) This can be used in either the right or left hand.
- 2) It is so light that repeated operation does not cause fatigue.
- 3) It is most suitable for on-site staff and inspection staff. It can be used over 400 times.



### Card Cleaner

- 1) The cleaning surfaces are individually sealed to maintain a superb wiping result.
- 2) It can be conveniently stowed in a pocket.
- 3) It is most suitable for engineers and measuring staff who require high-quality connections.
- 4) It can be used 120 times. (10 spare cards are included; one spare card can be used 12 times.) It is dust-free because it can be covered with a lid when not in use.



### Stick Cleaner

- 1) This is a tool to clean connector tips and the internal sides of adaptors efficiently.
- 2) It is an appropriate size and fits well.



For any additional information, please do not hesitate to contact :

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## Pipe Cleaner

(1) World's first cleaning tool for cleaning the sides of a ferrule.

(2) By applying this product before putting a ferrule into a measuring tool or a processing machine, the precision of measurement and processing can be improved.



## Characteristics common to all products

(1) Cleaning cloth is made of microfiber, and a special process (dust-proof process) is applied to reduce dust. Therefore, even dry cleaning provides excellent cleaning quality.

(2) With no alcohol used, cleaning is dry and safe.

(3) Antistatic finish is applied to all cleaners. Therefore, the cleaners are less likely to gather dust or dirt, making them safe to use even in places where static electricity tends to be generated. Spare reels are on sale for OPTIPOP R (Reel CLEANER), and spare cards for OPTIPOP C (Card CLEANER).

## Detail Spec

Constitution	Main unit with 1 reel attached	Main unit with 10 cards attached
Material	ABS resin(Including antistatic agent)*1	ABS resin(Including antistatic agent)*1
Surface resistivity	2 x 10 <sup>11</sup> (W/sq)	4x10 <sup>10</sup> (W/sq)
Main unit dimension	83 x127x48 (mm)	120x 57x15 (mm)
Main unit weight	150 grams	60 grams
Package	Individually packed	Individually packed
Dimension	98x127x 48 (mm)	60x125x 19 (mm)
Weight	164 grams	72 grams

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## Consumables

Product name	Spare reel	Spare card
Constitution	Ultra fine fiber& Core (Duracon)*2	Ultra fine fiber & substrate (PET)*3
Main unit dimension	49 (OD) x21 (mm)	96 x44 (mm)
Main unit weight	19 grams	1.8 grams
Packing	6 reels/box	Individual packaging
Dimension	103 x153 x25 (mm)	53 x110 x55 (mm)
Weight	140 gram	200 gram/box (100 pieces)
Shipping packing	Cardboard box(containing 40 pieces)	Cardboard box(containing 30 pieces)
Dimension	215 x315 x265 (mm)	230 x280 x185 (mm)
Weight	6 kg	6.3 kg

\*2: Duracon is also known as polyacetal resin or POM resin. Duracon is a product name.

\*3: PET is Polyethylene terephthalate.

Product name	2.5mm	1.25mm
Constitution	Ultra fine fiber& aluminum stick	Ultra fine fiber& aluminum stick
Main unit dimension	2.5x 150 (mm)Stick diameter: 2.0 (mm)	f1.5x 150 (mm)Stick diameter: 0.7 (mm)
Main unit weight	1.3 grams	0.2 gram
Packaging	5 pieces/packx 50 packs/box(= 250 sticks/box)	10 pieces/packx 50 packs/box(= 500 sticks/box)
Dimension	110x 155x 33 (mm)	110x 155x 33 (mm)
Weight	370 grams/box	136 grams/box
Packing for shipping	Cardboard box(containing 20 pieces )	Cardboard box(containing 20 pieces )
Dimension	230x 323x 185 (mm)	230x 323x 185 (mm)
Weight	7.7 kg	3.04 kg

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## Would Protect from High Power Laser Trouble.

As the use of high-speed fiber-optic transmission and WDM increase, high-power lasers with 1 watt or higher will become prevalent. If the ferrule endface was stained by dirt or dust, heat may be generated, which results in fiber burnout. This may cause serious damage, not only to the fiber, but also to the whole system.

2002 On The Institute of Electronics, Information and Communication Engineers

NTT Photonics Lab C-3-109 [MU Connector Spec with High Power Laser]

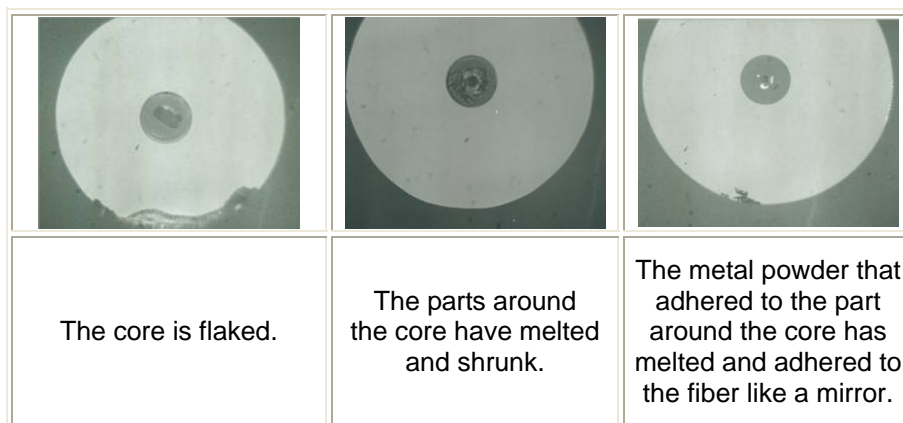
SM-MU Plug and DSF-MU Plug mated with Zr Adaptor 200times.

Without Cleaning, Fiber had damage.

DSF-MU makes fiber fuse sometime in this case.

## With NTT-AT Cleaning, No damage , No Trouble!

NTT-AT could Protect from dust, damage and Fiber Fuse.



ITEM	P/N	Min Quantity
REEL CLEANER ONE SLOT	ATC-RE-01	1
REEL CLEANER TWO SLOT	ATC-RE-02	1
REEL CLEANER FOR MPO with Pins	ATC-RE-03	1
REEL CLEANER FOR MT/RJ with Pins	ATC-RE-04	1
SPARE REEL SET	ATC-RS-01	6
CARD CLEANER (CASE &10 SHEETS)	ATC-CA-01	1
SPARE CARD SET	ATC-CS-01	1set (10 sheets)
1.25mm STICK CLEANER	ATC-ST-01Pj	200
2.5mm STICK CLEANER	ATC-ST-02Fj	250
1.25mm PIPE , PLASTIC	ATC-PP-01	600
2.5mm PIPE , PLASTIC	ATC-PP-02	200

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