



## FIELD INSTALLABLE CONNECTOR & FIELD POLISHING TOOL

POWERED BY NTT AT



- |   |                                    |                                       |
|---|------------------------------------|---------------------------------------|
| A. Case                                     | B. Field polishing tool            | C. Fiber cleaver                      |
| D. Loupe                                    | E. Cleaning paper                  | F. D film (for APC polish)            |
| G. CeO film (for 1 <sup>st</sup> PC polish) | H. ADS film (for finish PC Polish) | I. SC/APC field Installable connector |
| J. SC/PC field Installable connector        | K. Butting tool                    | L. Cable holder                       |
| M. Cable stripper                           | N. Kevlar cutter                   | O. Fiber stripper                     |

### FEATURES

Ideal for FTTH construction sites such as closures and in-home terminal connections. With APC polishing, it can achieve a return loss of more than 65dB. The product also gives superior environmental reliability than the mechanical splice type field installable connectors.

#### Installing Connectors Quickly and Easily

Simply insert the fiber into the specialized connector part, position it using the tool, then polish using the drawstring-operated field polishing tool. The operation is completed with just 3 easy steps.

#### Field Polishing is Fast & Simple, and No Need of Water and Electrical Power

Polishing liquid and water are not needed, and one polishing (one drawstring pull) takes less than 5 seconds. Since the connector's ferrule end-face is pre-polished, APC polishing is completed with only 1-time drawstring pull, and PC polishing with 2-times drawstring pull. The polishing films can be re-used for 4 times.

#### Excellent Optical Performance & Environmental Resistance

A high return loss of 50dB or more for PC type and 65dB or more for APC type, and a connection loss of less than 0.3dB are realized. Unlike the mechanical splice type, the product does not use a refractive index matching agent, so it has excellent environmental reliability.

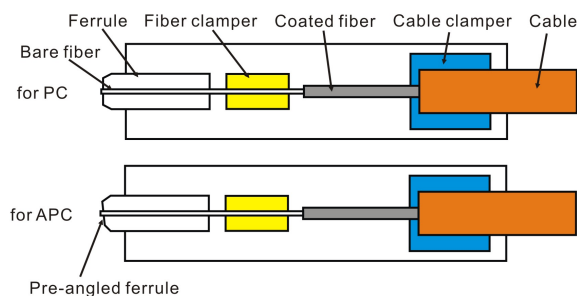
### PRODUCT SPECIFICATIONS

#### The Structure of Connector

The connector has no splicing point. The fiber is penetrated through the ferrule and fixed by the fiber clammer, and the end face of the fiber is set to be protruded from the ferrule by around 70 $\mu$ m and is then polished on site to around 10 $\mu$ m by the field polishing tool.



Pre-angled ferrule's end-face with fiber protruded





## SPECIFICATIONS

Applicable connector types	SC
Polished types	APC, PC
Applicable fiber types	Single mode, Multimode
Applicable cable types	2mm or 3mm round cable 2mm x 3mm or 1.6mm x 2mm flat cable
Optical performance	APC: Insertion loss $\leq 0.3$ dB, Return loss $\geq 65$ dB PC: Insertion loss $\leq 0.3$ dB, Return loss $\geq 50$ dB Multimode: Insertion loss $\leq 0.2$ dB, Return loss $\geq 25$ dB

## MECHANICAL AND ENVIRONMENTAL PROPERTIES

Test	Condition	Performance
Repeatability	>50 times	$\Delta IL \leq 0.2$ dB
Traction cord	10N, 120sec	RL $\geq 65$ dB (APC)
Fall	50cm, 10 times	IL: Insertion loss RL: Return loss
Vibration	10 to 55Hz, 0.75mm p-p, 90min	
Cold	-40°C, 96h	
Dry heat	75°C, 96h	
Temperature cycle	-40°C to 75°C, 16 cycles	