

XP Fit Field SENKO Installable Connector

SENKO[®]
Advanced Components

APEG PROTECTION
ENGINEERS
GROUP

Legacy Solutions

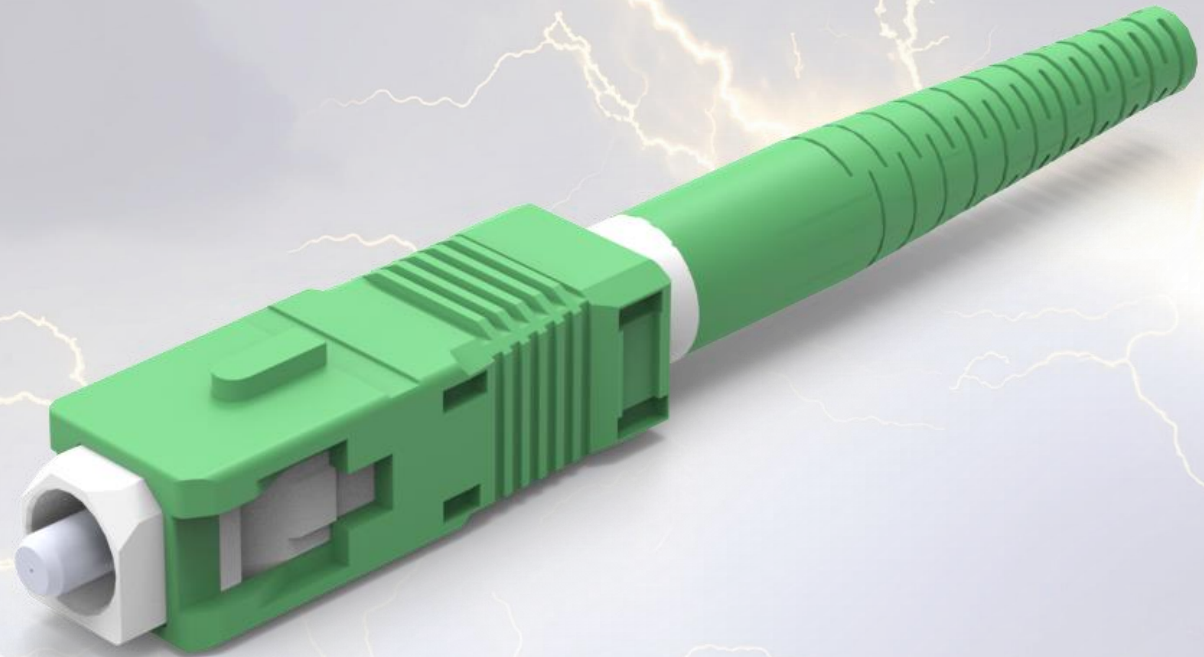
Field-Polished Connectors and Anaerobic Adhesive Connectors :

- **Process:** This involves cleaving the fiber, gluing it into the connector, and then polishing the fiber end to achieve a good optical finish. The polishing process can include several steps using different grades of polishing film, optical testers.
- **Tools Required:** Curing oven, Cleaving tools, polishing jigs, polishing films and epoxy.

Fusion Splice-On Connectors (SOC):

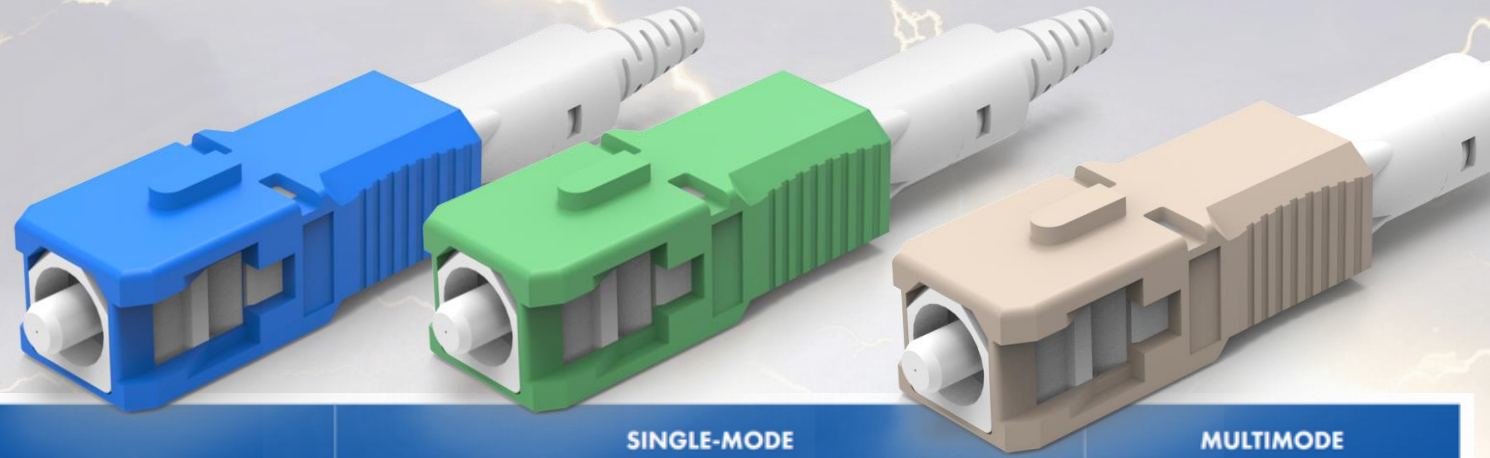
- **Process:** This involves using a costly fusion splicer to permanently join a pre-polished pigtail to the field fiber. The connector is then assembled around the splice.

XP-Fit Connector



No Special Equipment Requires

XP Fit Plus Specifications

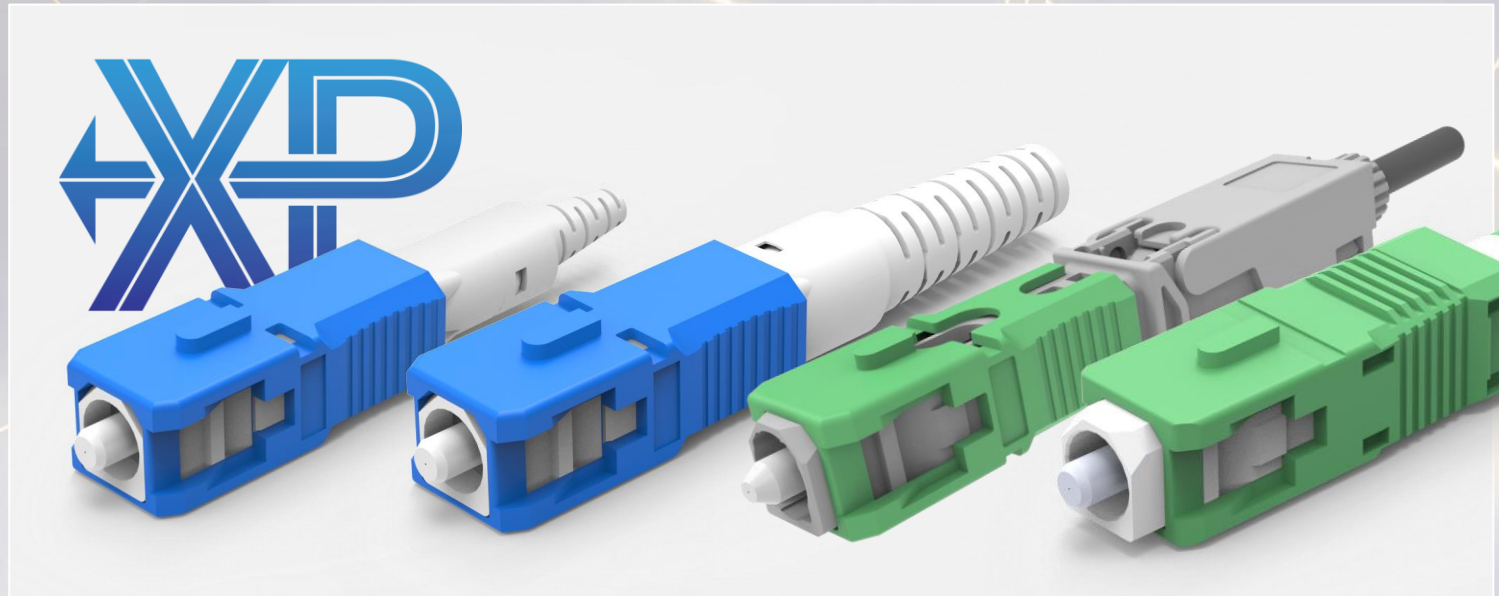


PARAMETERS	SINGLE-MODE		MULTIMODE
	UPC	APC	MM
	STANDARD		
Typical Insertion Loss (dB)	0.20	0.30	0.10
Max Insertion Loss (dB)	0.50	0.75	0.30
Typical Return Loss (dB)	≥55	≥60	≥35
Operating Temperature (°C)	- 40 to +75		
Durability	<0.1 dB typical change, 500 matings		
Ferrule Ø	125µm		127µm



Field Installable Solutions

Available for multiple cable configurations



XP Fit Plus
900 μm

XP Fit Plus 3
mm

XP Fit Uni

Q-XP
900 μm

Size Comparison

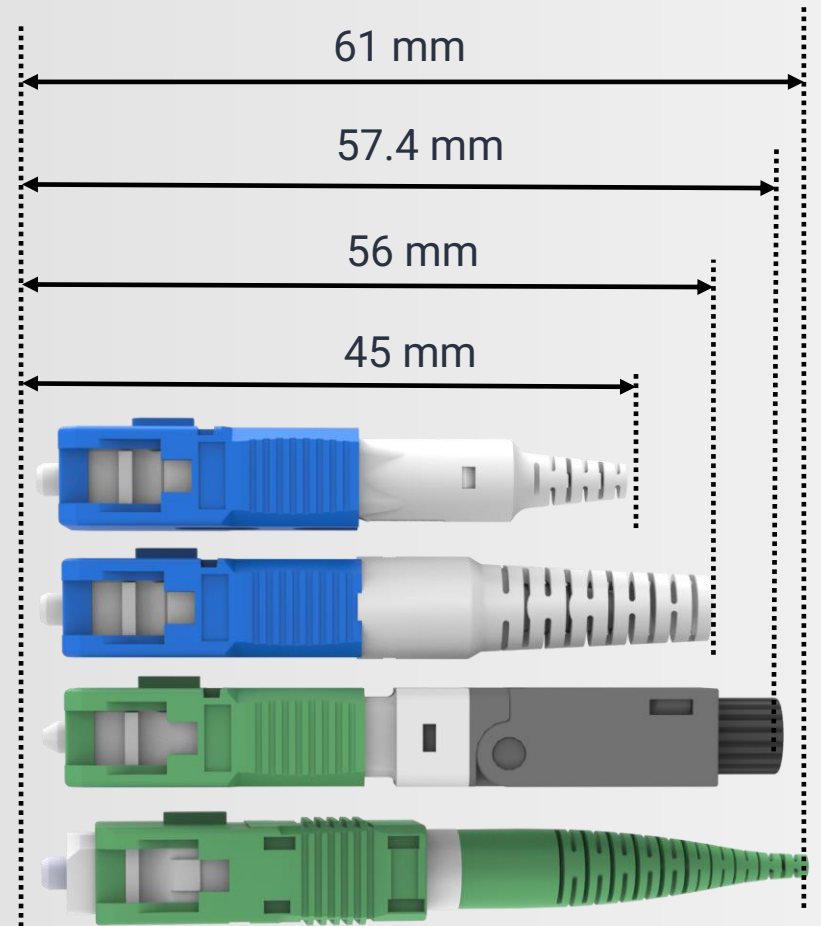
Small footprint for easy positioning

XP Fit Plus 900 μm

XP Fit Plus 3 mm

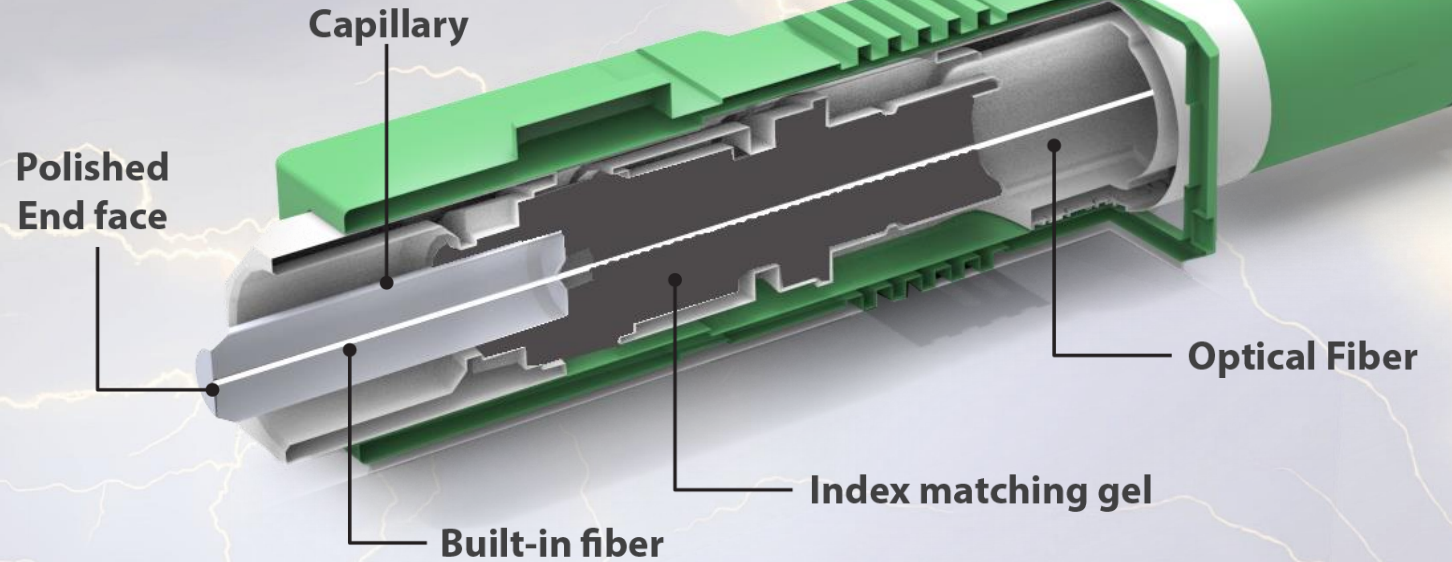
XP Fit Uni

Q-XP 900 μm



Quality Connector Construction

Quality index matching gel will outlast the lifespan of the network



All XP-Fit Connectors feature GR-1081 tested index matching gel and mechanical splice structures

High Quality XP-Fit Index Matching Gel

Specifications

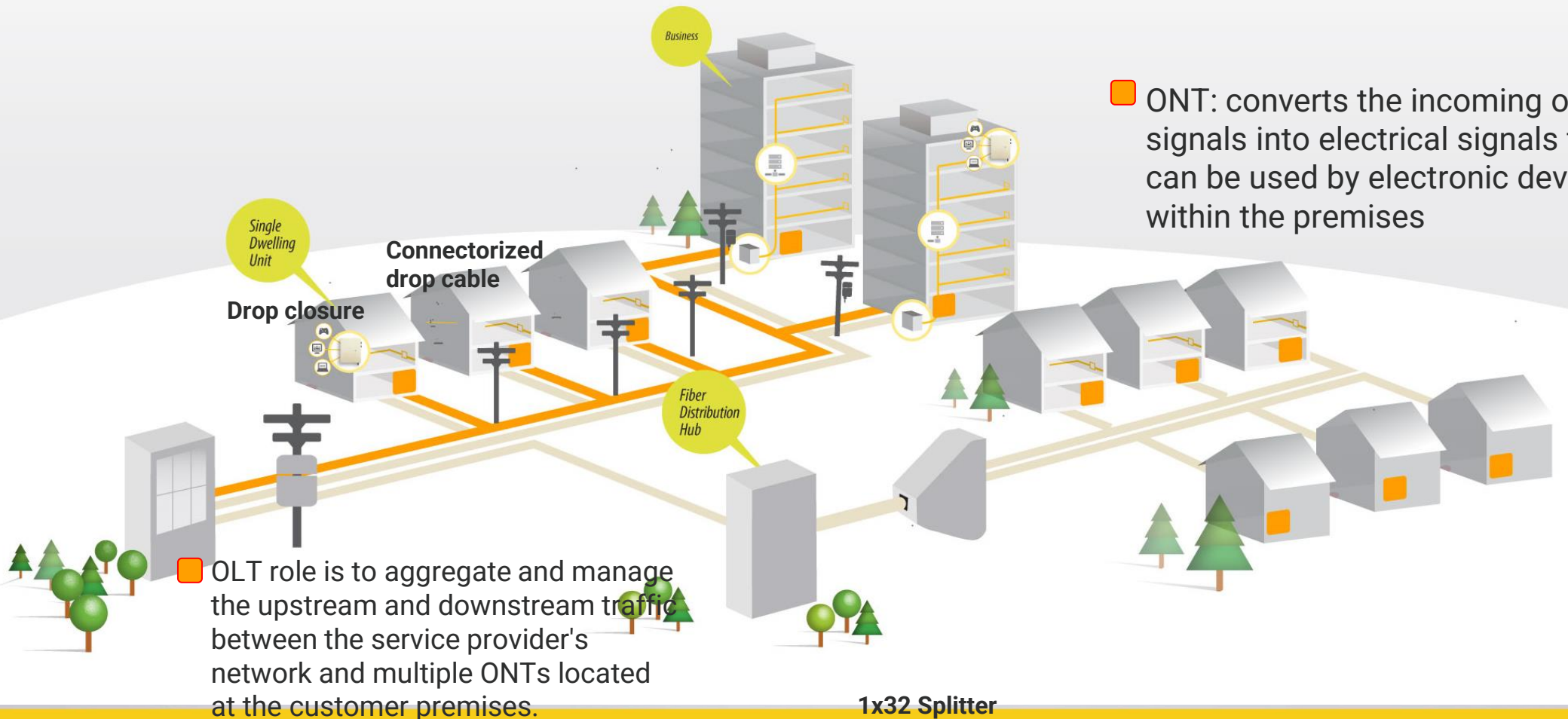
	Previous Index Matching Gel Formulations	Index Matching Gel of Today
Oil Separation	1.0%	0.2% max, 0.075% average
Evaporation	2.1%	0.2% max
% Transmittance*	79%	97% after 80°C heat aging

* 1 cm optical path

Designed to
withstand 20+
years in service

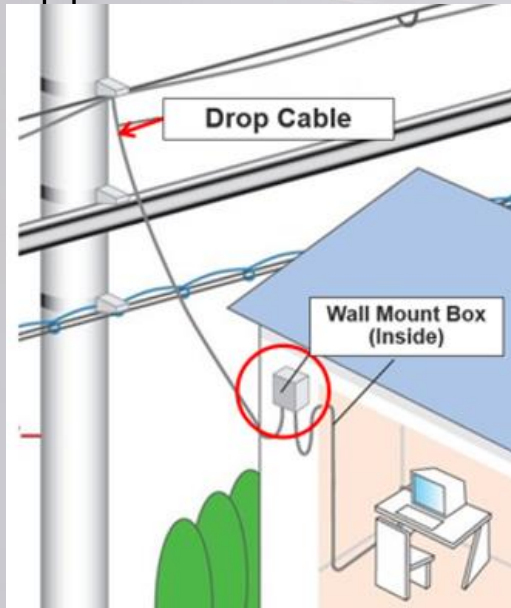
- > ASTM D1218 – Refractive Index
- > ASTM D972 - Evaporation
- > FTM 791 – Oil Separation
- > Designed to withstand 20+ years in service

FTTH Application

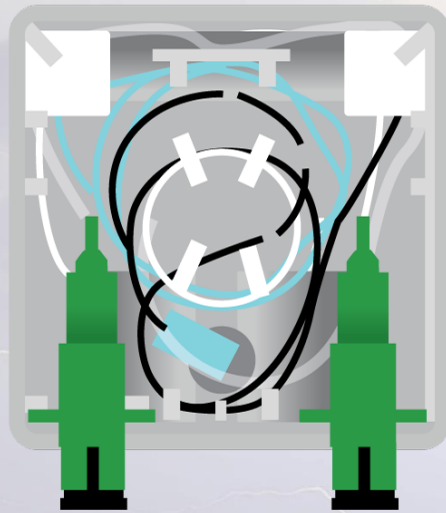


Drop cable

Applications

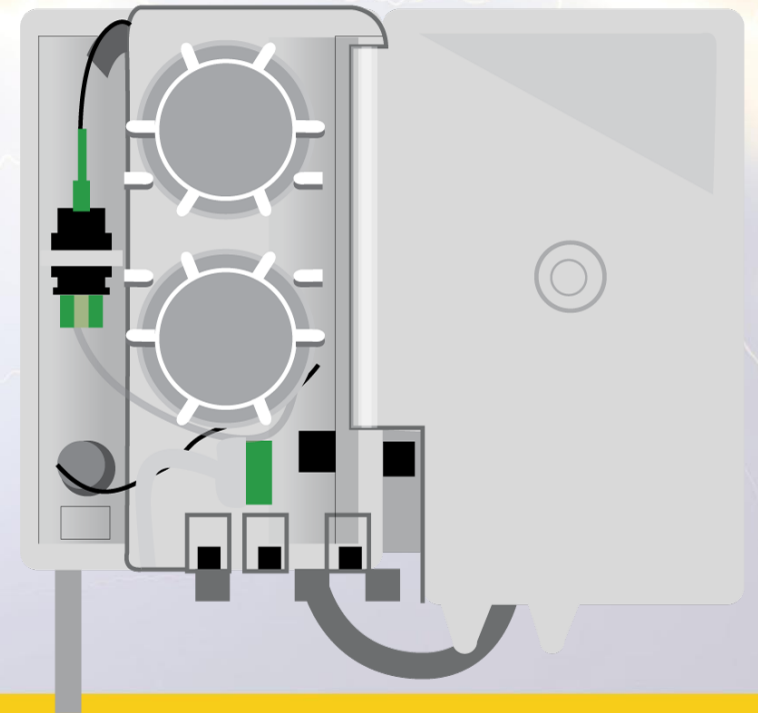


Wall-mount

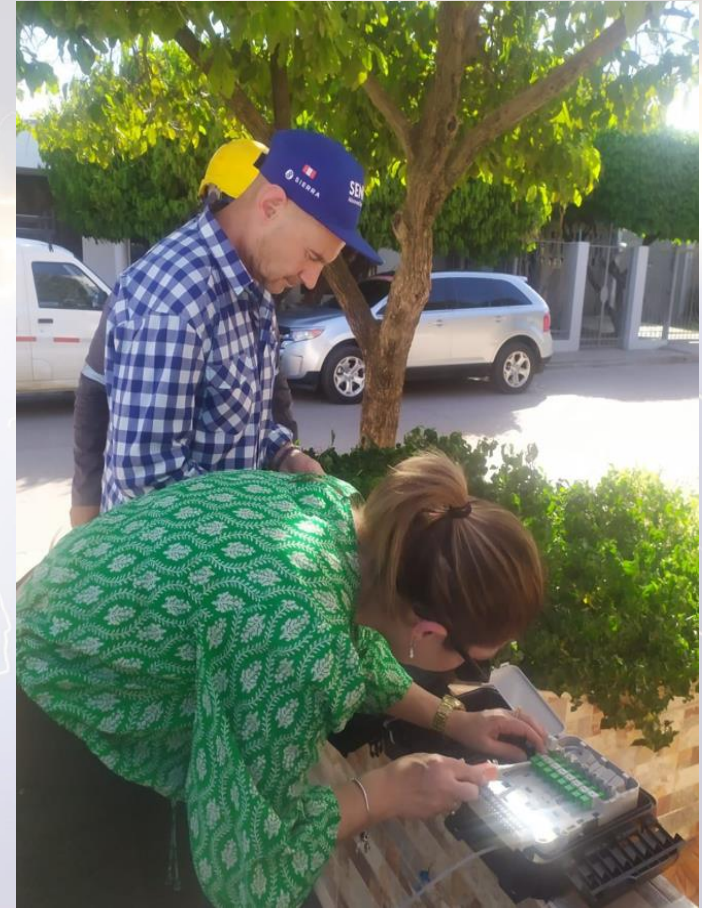


SENKO XP Fit SC
APC Connector

ONT



Examples of Installation



Termination Tools

Cost savings over expensive fusion splicers



New
AFT-T-CL-05

Complete Tool Kit

Utilizes standard tools common to most installers - stripper, visual fault locator, cleaver

Premium Cleaving

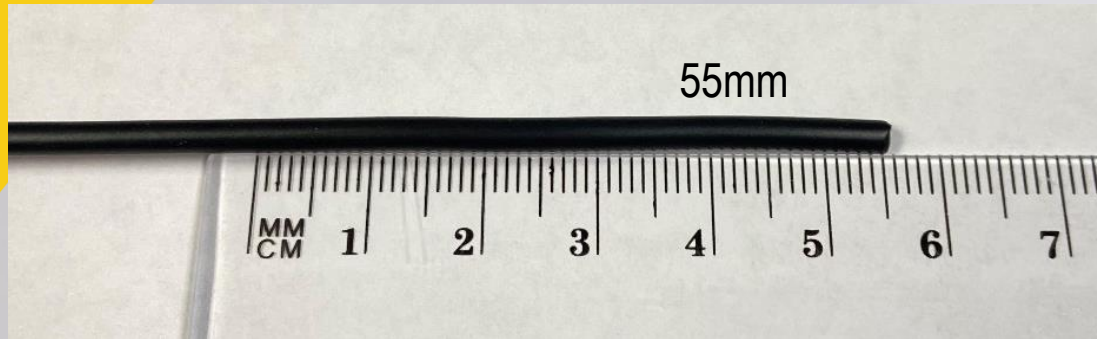
Offer premium cleaver capabilities of 10 mm or longer and compatible with other manufacturer's kits

No Power Needed

No requirement for electrical power as needed in fusion splicing



FIT PLUS Assembly Procedure - Cable Prep





FIT PLUS Assembly Procedure – Fiber Strip and Cleave





FIT PLUS Assembly Procedure - **Connectorization**

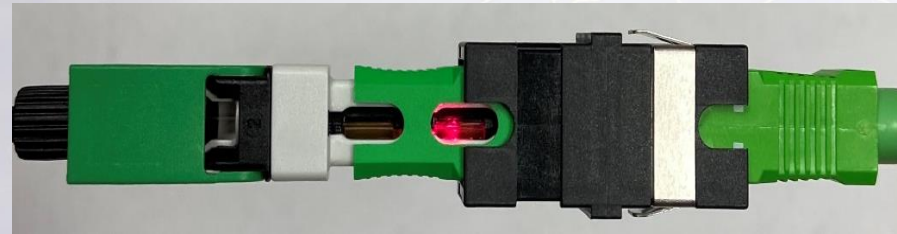




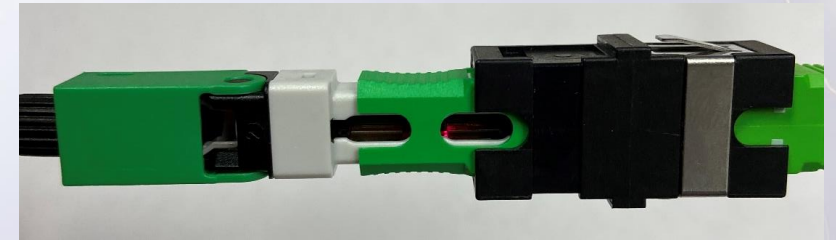
FIT PLUS Assembly Procedure - Test



Insert VFL



Light shown- BAD



No Light - GOOD

Speed and Ease of Termination



Lower Cost

High quality components yield stable and low loss values

XP-Fit Benefits



Quick and simple termination process in under 2 minutes

Low Loss



Cost savings vs expensive fusion splicing equipment requiring advanced training



Easy Confirmation

Visual indication for good splicing, freeing up costly loss meters

ETP and Video Materials

SENKO
Advanced Components

XP Fit Plus SC APC 900 μm Field Installable Connector Instruction Manual (ETP-1209-002-01)

For your safety operation

This product has been designed and manufactured to assure personal safety. Improper operation can result in bodily injury and serious damage to this product. Please read and observe all warnings/instructions given in this operation manual.

- **Wear safety glasses** before handling optical fiber to protect the eyes. Small pieces of glass fiber are very sharp and might get into the eyes or under the skin and cause injury.
- **Never look into** the end of a connector or an optical fiber which may have a laser coupled to it. Laser light may damage your eyes. Please note that laser light is not visible.
- If working in high places, please be careful not to drop any tools. (Please use a wrist strap etc.)

Precautions

1. Improper assembly will result in a loss of performance. **Please read instructions** given in the operation manual.
2. The product is sensitive to dirt or dust. Do not take connector out of the package **until it is to be used**.
3. The performance will be influenced by the cleaved fiber surface condition. Please use a cleaver that has a good blade.
4. Please **insert the fiber into the connector slowly**. If the fiber is roughly inserted, it might be damaged or broken, leading to product failure. Broken fiber could be scattered in all directions.
5. Do not remove the dust cap **until the connector has been completely assembled**.
6. A proper amount of index matching gel is applied in the connector. Do not **insert fiber more than once**.
7. Product properties are referenced to specification No. 020-01010-01-xx.

Composition

Connector (with wedge): 12pcs
Boot: 12pcs
Fiber holder for 900 μm fiber: 1pc
Assembling jig: 1pc

Assembly tools example

1 Fiber cleaver 2 Jacket remover
2 Cable Stripper



How to Terminate XP Fit Uni SC on to 900μm 250μm Cable

739 views • 3 years ago



How to Terminate XP Fit Uni SC on to 2mm Cable

267 views • 3 years ago



How to Terminate XP Fit Uni SC on to 1.6x2mm Cable

546 views • 3 years ago



How to Terminate XP Fit Uni SC on to 2x3mm Cable

544 views • 3 years ago

➤ Additionally, XP Fit Troubleshooting videos are available:
<https://youtu.be/TTp1k8y7J0U?t=327>

XP-Fit Resources



Scan to learn more

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Advanced Components

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Assembly tools example

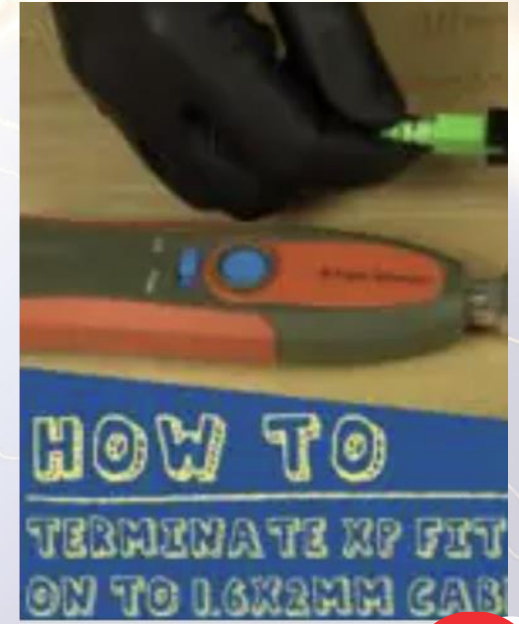
1 Fiber cleaver 2 Jacket remover

2 Cable Stripper

Instruction
Manuals



Troubleshooting
Videos



How To
Videos



SENKO - Growing Together – Questions?

