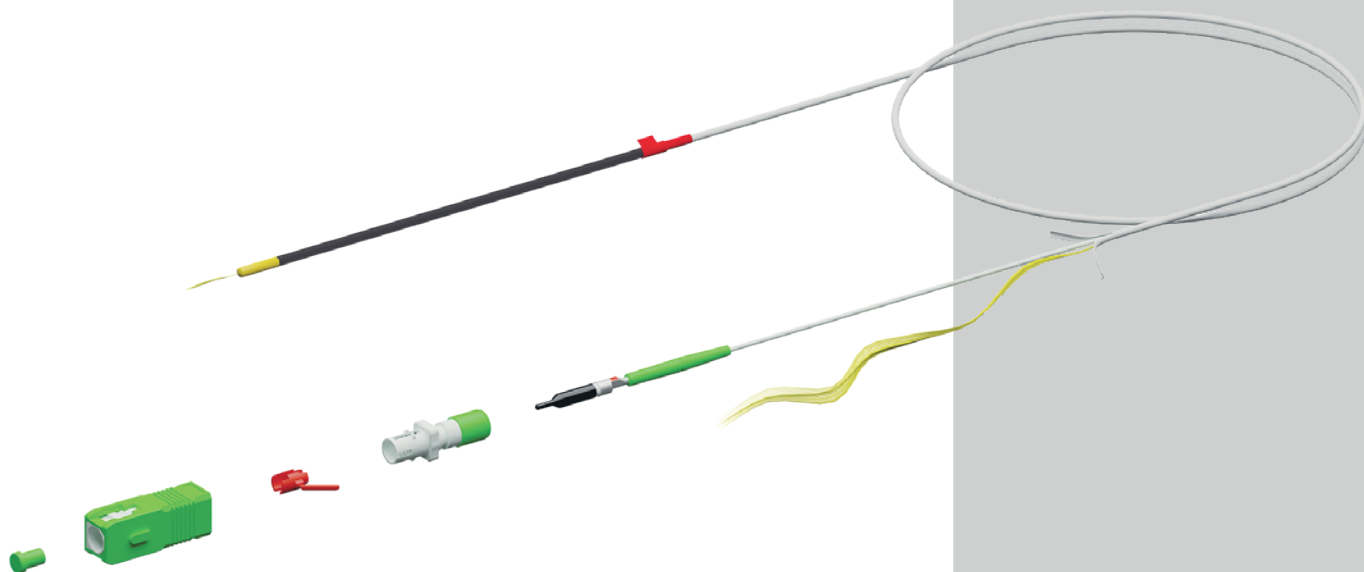


Easy Fiber

The definitive solution
for FTTH connections

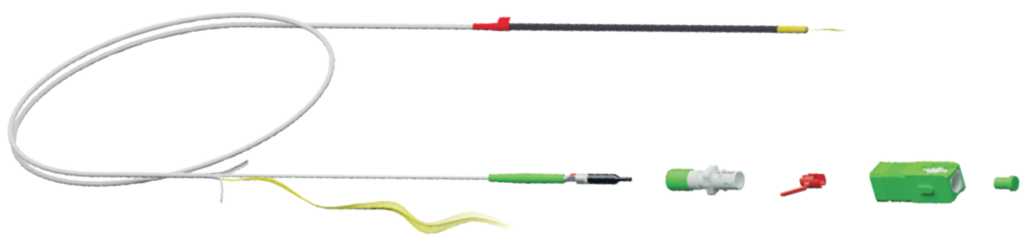


**TELECOM
& SECURITY**

be able with cable



Single mode optical patchcord with SC/APC Easy Fiber connectors



Easy Fiber is an innovative system that allows you to make **top quality fiber optic connections quickly and easily**. The idea behind Easy Fiber system is to pre-install on the patchcord NOT the entire SC/APC connector but ONLY its main component, the zirconia ferrule: in the factory the optical fiber is epoxied into the ferrule and then lapped at 8° angle. In this way **the optical patchcord, thus connectorized, maintains the same footprint and the same threading capacity of the cable without connector**.

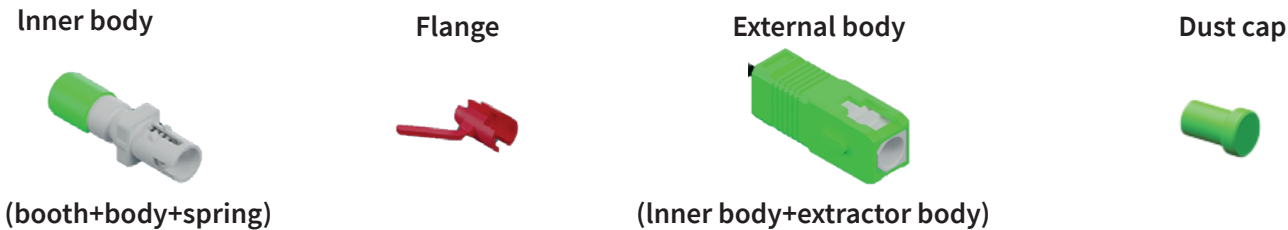
The reinforcing filler of the optical patchcord (kevlar) is used as a **pulling system**, thus avoiding any possibility of collapse of the same in the vicinity of tight curves and preserving the integrity of the fiber: the rubber tail embedded on the ferrule holder and the cable sheath partially superimposed on the rubber tail protect the fiber in all points of discontinuity; there is also a PVC sheath for protecting the ferrule during the installation of both the patchcord and the remaining parts of the connector.

The patchcord is **pre-engraved on two opposite sides to allow all installers to unsheath the cable simply by pulling the two edges of the sheath for the necessary length**; in this way any excess of cable can be stripped off to reduce its footprint (for example, with a 2.5 mm diameter cable and 900 µm fiber, the overall size is considerably reduced when the sheath of the cable is stripped away).

The **Easy Fiber Kit** containing the remaining mechanical parts of the connector that will be mounted in the field after the threading phase, are provided in the patchcord packaging.

Easy Fiber, not being made of conductive material **can be easily installed in small conduits, even in the presence of other cables (signal and energy)**.

Easy Fiber Kit Composition



SINGLE MODE FIBER PATCHCORD CHARACTERISTICS

CPR Class:	Eca, Cca-s1 b, d1, a1
Core diameter:	9µm
Cladding diameter:	125 µm
Primary coating diameter:	600/900 µm
External diameter:	also Pico Breakout (kevlar) depends on number of fibers included
Pulling system diameter:	<3mm
Protection filler:	aramid yarns (kevlar)
External sheath material:	LSOH
Fiber type:	G.657 A2
Standard connectors:	SC/APC

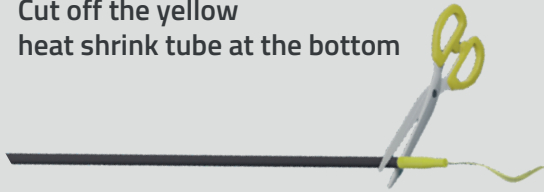
GUARANTEED OPTICAL PERFORMANCES

Insertion Loss:	Grade C
Return Loss:	Grade 1

MECHANICAL AND ENVIRONMENTAL CHARACTERS

Usage:	indoor/outdoor
Dynamic bend radius:	20x cable diameter
Static bend radius:	10x cable diameter
Maximum cable pull:	50 N
Operating temperature:	from -10°(to +50°(

1. Cut off the yellow heat shrink tube at the bottom



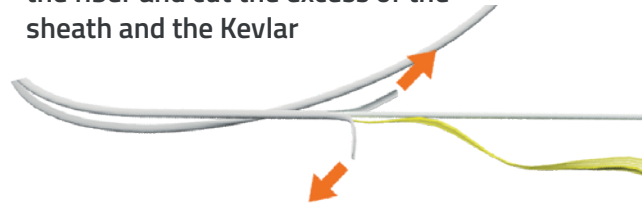
2. Remove the red adhesive tape



3. Gently slide the sheath along the fiber by gripping the top of the sheath



4. Pulling from the two flaps, strip the pre-engraved sheath for the necessary length in order to easily manage the fiber and cut the excess of the sheath and the Kevlar

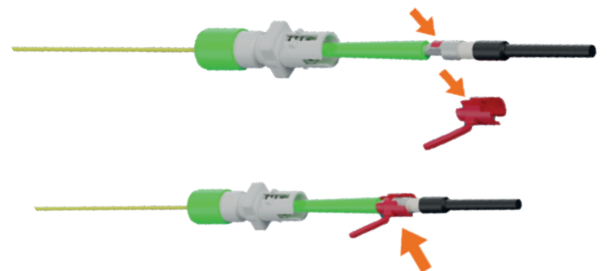


SC/APC Connector finalization

6. Insert the inner body



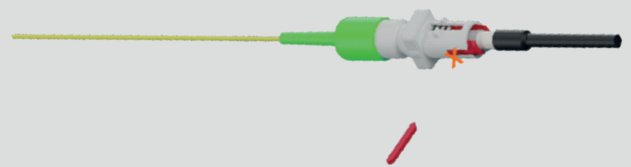
7. Insert the flange paying attention to the red mark on the ferrule holder



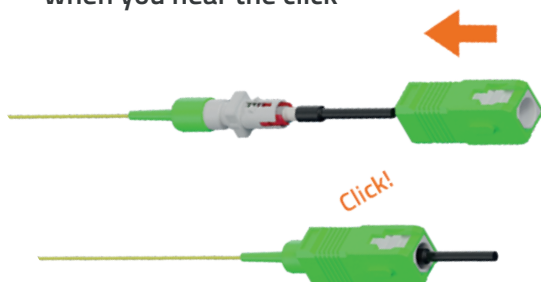
8. Connect the inner body to the flange by aligning the slot of the internal body to the flange tag



9. Remove the flange tag



10. Insert the external body by aligning the slot of the internal body with the notch. The connection is successfully completed when you hear the click



11. Remove the ferrule temporary protection and insert the green cap



Easy Fiber Benefits

Unique

Easy Fiber is the only system which allows you to install optical patchcords preconnectorized on both ends in places where previously it was possible to insert only optical cables without connectors

Simple

Easy Fiber is within the reach of installers not highly specialized in the optical field

Maximum quality possible

Easy Fiber connectorizations are factory made, thus ensuring the best possible connection quality according to highest international standards

Installation without tools

Easy Fiber does not require any professional tool (for example Splicer, Stripper, Cutter, OTDR, etc.); the only tool required is a pair of scissors for kevlar cutting

Quick installation time

Completing the connector is a simple operation, much faster (realization time <30 sec) compared to the field connectorization of a cable using either hot or cold junctions

Integrated pulling system and ferrule protection

Easy Fiber uses the kevlar of the optical cable as a specific pulling system characterized by a protective sheath removable without the use of tools: this system also has a fiber anti-collapse function, thanks to the rubber tail embedded on the ferrule holder and the cable sheath partially superimposed on the tail, and a temporary protection of the ferrule, thanks to the specific PVC sheath

Test report supplied with each cable

Easy Fiber cables are tested and the guaranteed values of I.L. and R.L. fulfil Grade C for Insertion Loss and Grade 1 for Return Loss

Flexibility

Any type of cable can be supplied with Easy Fiber configuration:

- SC/PC - SC/APC connections
- Singlemode / multimode fiber cables
- Number of fibers: 1 / 4 / 8 / 12 / 24
- Coating type: indoor/outdoor
- Different CPR class available
- Different lengths available
- Cables according to national TELCO operators specifications

Telecom & Security Srl

Viale Stefano Tinozzi, 3 - 65024 Manoppello Scalo (PE) - Italy

Tel. +39 085 8569020 - www.telecomsecurity.it - info@telecomsecurity.it