Ratioplast
Electronics | OptoElectronics

Data sheet **FO connector**
F-ST clamp connector PCF

F-ST clamp connector for 200/230µm PCF fiber

1 General

This connector, designed for 200/230µm PCF-fiber uses an assembly without crimping and glueing.
A patented clamp system integrated into the connector body holds the fiber, the strain relief and the cable jacket in place after assembly.
Also, it is possible to disassemble the connector and reuse it several times.
This big advantage makes it easy to repeat an assembly if the demanded optical parameters are failed after finishing.
Additionally, there is no need for expensive tools like heat oven or crimp pincers and an enormous time saving while no crimping, glueing and heat curing is needed.
Fiber endface preparation is done by hand through scribing and breaking or, to get repeatable results, using the special designed fiber cleaving tool from Ratioplast-Optoelectronics.

Pic. 1 F-ST clamp connector

2 Applications

Due to the very good optical characteristics and easy termination technique, these connectors can be used indifferent applications:

- Optical networks
- Industry electronics
- Power electronics
- Consumer electronics

3 Features

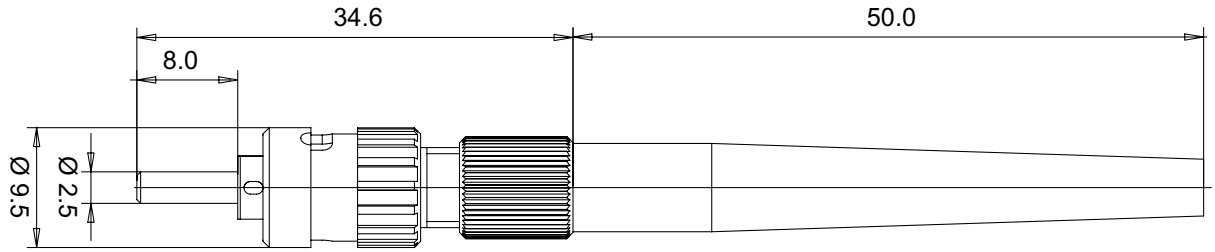
- F-ST clamp connector
- suitable for 200/230µm fiber
- epoxy free assembly
- no crimp tool needed
- patented clamp system
- reusable for several times
- fast assembly

4 Ordering information

The 200/230µm fiber F-ST connector is available for 3 different cable jacket outer diameter:

Specification	Part number
Cable diameter: **2,2 mm**	902SS201STK02-01
Cable diameter: **2,5 mm**	902SS202STK02-01
Cable diameter: **3,0 mm**	902SS203STK02-01

5 Technical drawing



Pic. 2 *F-ST clamp connector*

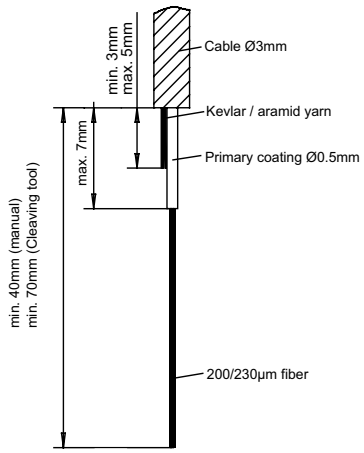
F-ST clamp connector for 200/230µm PCF fiber

6 Connector assembly

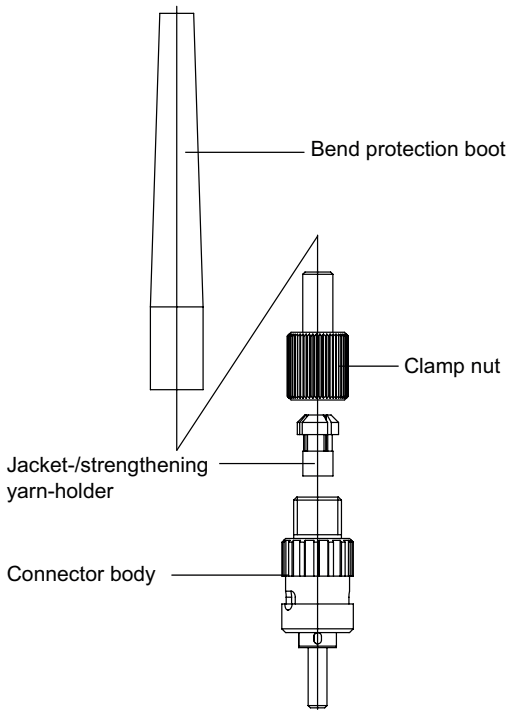
Cut FO-cable to length and dismantle fiber according to dimensions in Pic. 3.
Unscrew clamp nut and remove cable jacket-/strengthening yarn-holder insert from connector body (Pic. 4).
Slip bent protection boot and clamp nut onto the cable.
Slip cable jacket-/strengthening yarn-holder onto cable until it butts against the outer jacket.
Make sure that the strengthening yarn is fully passed through the holder.
Insert the fiber into the connector. Rotate the connector carefully feeling for the opening in the tip. When the fiber is seated, pull it back slightly and watch for movement at the tip to make sure the fiber has not been broken.
Reseat the fiber into the connector so the jacket-/strengthening yarn-holder butts against the connector body. The fiber should now protrude the tip by 40mm (for manual cleaving) or by 70mm (using Ratioplast-Optoelectronics cleaving tool).
Manual tighten the clamp nut onto the connector body using gentle force. Doing this the fiber, the strengthening yarn and the cable jacket will be locked in place.

Fiber end face preparation can be done by manual cleaving or using the special designed cleaving tool from Ratioplast (Ord. No.: 910FW230ST001).

Refer to cleaving tool data sheet E10FW230SM001 for operating instructions.



Pic. 3 Stripping dimensions



Pic. 4 *F-ST clamp connector*

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