

SC clamp connector for 200/230µm HCS/PCF

1 General _____

This connector, designed for 200/230µm PCF 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.

2 Ordering information _____

The 200/230µm PCF-fiber SC connector is available for cable jacket outer diameter:

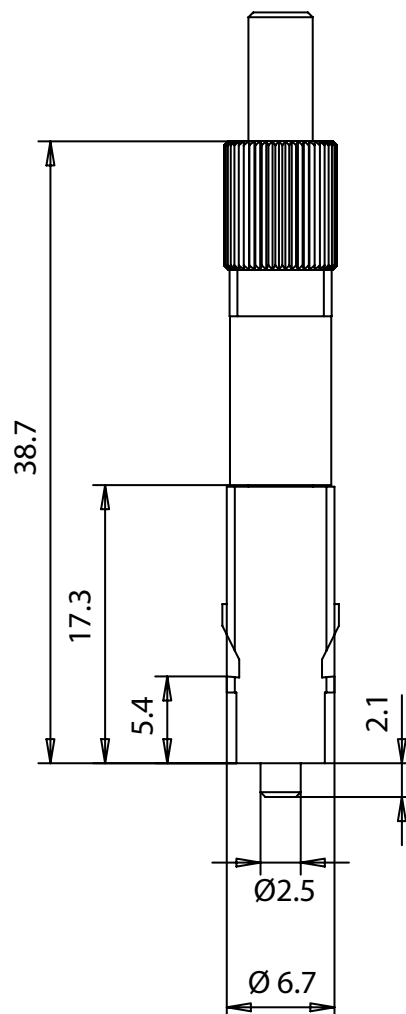
Cable outer diameter: **2.2 mm** **Art.-Nr. 902SS201SCK02-01**

Depending on the grip plates (housings) the connector can be simplex and duplex SC standard or a duplex SCRJ version (Product no. upon request).



Pic. 1 SC clamp connector with zirconia ferrule

3 Drawing _____



Pic. 2 Dimensions SC clamp connetor without grip plate

SC clamp connector for 200/230µm PCF

4 Cable 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.

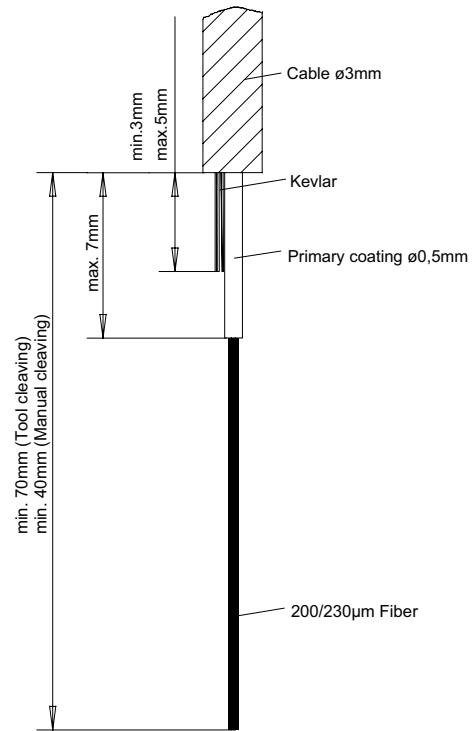
When the fiber is seated, pull it back slightly and watch for movement at the tip to make sure the fiber has not been broken.

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).

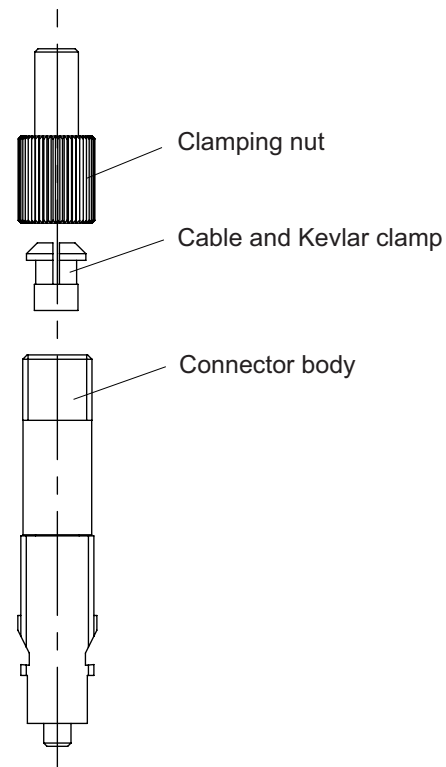
Manually tighten the clamp nut onto the connector body using gentle force. Doing this the fiber, the strengthening yarn and the cable jacket will be locked in place.

Fiber end face preparation can be done by manual cleaving or using the special designed cleaving tool from Ratioplast (Ord. No.: 910FW230SC001).

Refer to cleaving tool data sheet E10FW230SM001 for operating instructions.



Pic. 3 Stripping dimensions for fiber optic cable



Pic. 4 Components SC clamp connector without grip plate

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