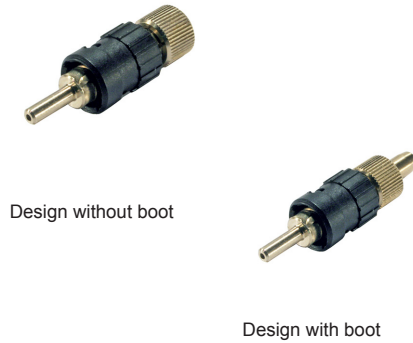


F-ST clamp connector (anti-turn lock) for POF cable 1/2.2 mm simplex

1 General _____

The FO connector style F-ST is optimized in particular for applications using standard 1 mm polymer optical fiber demanding a fast and easy cable assembly with high reliability, very good optical and mechanical characteristics. Especially the shown clamp connector can be reused and connected to the POF cable without special tools.



Pic. 1 and 2 *F-ST clamp connector POF*

2 Application _____

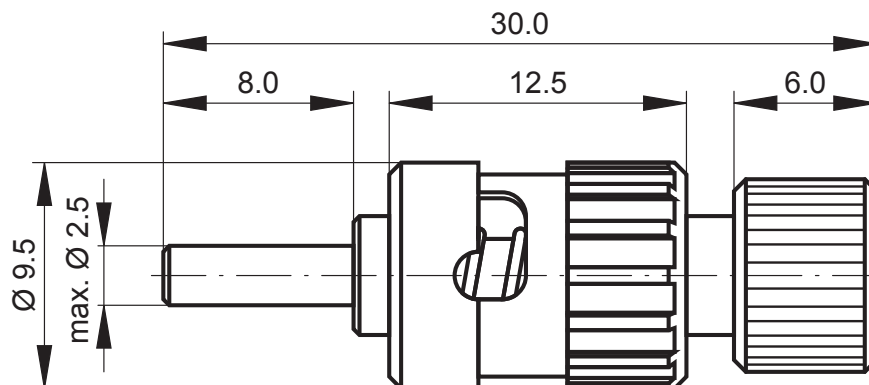
Due to the good optical features and the easy cable assembly, the F-ST clamp connector is useable in several applications:

- Optical networking
- Industrial electronics
- Power electronics
- Consumer electronics

4 Ordering information _____

Specification	Part number
Without boot	902SS001STK02
Boot 29 mm (black)	902SS001STK12
Boot 50 mm (black)	902SS001STK22

3 Technical drawing _____



Pic. 3 *F-ST clamp connector*

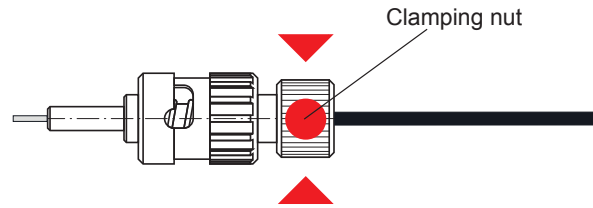


F-ST clamp connector (anti-turn lock) for POF cable 1/2.2 mm simplex

5. Cable assembly

Required tools for cable assembly of F-ST connector with 1/2.2mm POF cable:

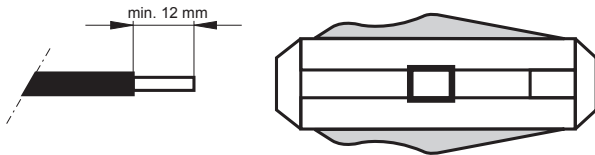
Specification	Part number
Fiber stripper	910AB00100001
Polishing disc	910PS0ST00001
Polishing film, grain size 1000	910PB00100001



Pic. 5 Clamping area

5.1 FO cable:

- Remove min. 12 mm of outer jacket 2.2 mm by using the fiber stripper (Pic. 4)



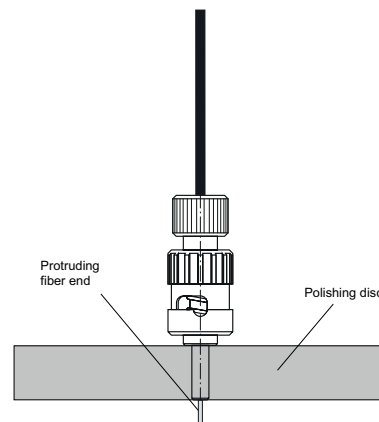
Pic. 4 Fiber stripper

5.2 Clamping of POF cable:

- Ensure that the rear clamping nut is not fixed on the thread.
- For designs with boot, push at first the bend protection boot over the cable.
- Insert the dismantled POF cable into the connector up to the stop. The fiber should protrude min. 1 mm out of the connector tip.
- Due to tightening the rear clamping nut (by hand as strong as possible) the POF cable is fixed within the connector (Pic. 5).

5.3 Fiber endface processing:

- Insert the connector into polishing disc (Pic. 6) and grind the protruding fiber by using the polishing film, grain size 1000 placed on a smooth pad (e.g. glass plate). Press the polishing disc down on the polishing film and grind off the fiber until the connector is flush with the bottom of the disc.
- Wipe the connector with a clean tissue. Best insertion loss results are achieved by wet grinding.
- If the connector is not to be used immediately, cover the end with the dust cap.



Pic. 6 Polishing disc with connector guidance

6 Technical data

Parameter	Condition	Value	Unit
Retention force cable clamping	Ambient room temperature	40	N
Insertion loss		< 4.0	dB
Thermal properties	---	-40 to +85	°C

The information released by Ratioplast-Optoelectronics GmbH in this data sheet is believed to be accurate and reliable. However, no responsibility is assumed by Ratioplast-Optoelectronics GmbH for its use. Ratioplast-Optoelectronics GmbH reserves the right to change circuitry and specifications at any time without notification to the customer.