Ratioplast
Electronics | OptoElectronics

Data sheet

F/O connector

Male / female insert for 1.0 / 1.5 / 2.3mm POF*- MOST

1 Ordering information

Item	*Produkt number*
Male insert	902DI155ST001
Female insert	902DI155BU001

Fig. 1 *F/O connector, male / female insert*

2 Technical drawing

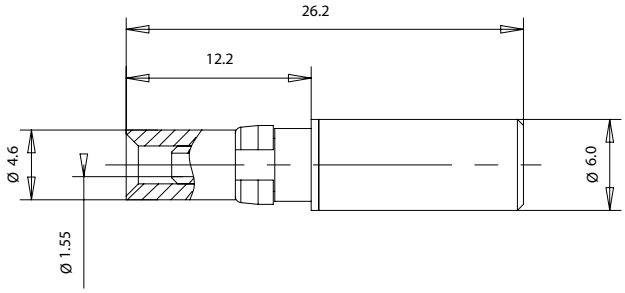

Fig. 2 *F/O connector female*

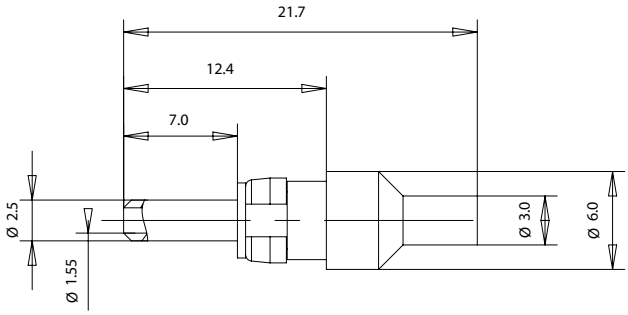

Fig. 3 *F/O connector male*

3 Termination

Required tools for termination of F/O connector to 2.3mm POF*-MOST.

Item	*Product number*
4-pin crimping tool	910CZ00100004
Stripping tool	910AZ00100PA1
Polishing disc	910PS0SC00001
Polishing paper, graining size 1000	910PB00100001
Polishing paper, graining size 4000	910PB00140250

Male / female insert for 1.0 / 1.5 / 2.3mm POF*- MOST

3.1 F/O cable

- Strip the 2.3mm POF*-MOST cable at minimum 12mm for male and 15mm for female (see figure 4).

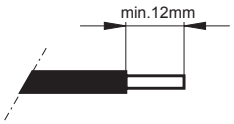

Fig. 4 *see strip male*

3.2 Crimping the fiber

- The data sheet for crimping tool T10CZ00100004 explains how the crimping tool works and how to adjust the crimping dimension and locator for the connector to be crimped
- Push the stripped fiber as far as possible into the connector sleeve (see figure 5) so that it protrudes approx. 1 mm from the tip of the connector

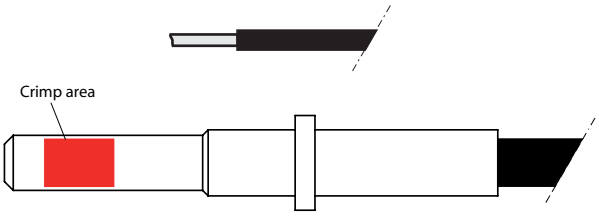

Fig. 5 *crimp area*

- Insert the connector together with the fiber optic cable as far as possible into the crimping opening of the crimping tool (910CZ00100004) (see figures 6-7) while applying gentle pressure to the fiber optic cable and connector, close the tool until you hear it disengage

* POF= Polymer-Optische-Faser

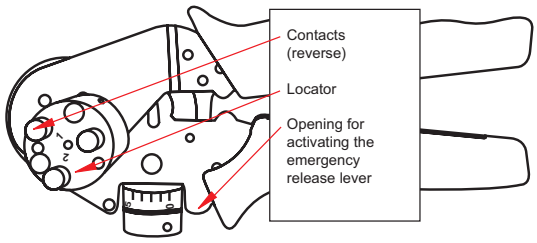

Fig. 6 *Locator side of the crimping tool (reverse)*

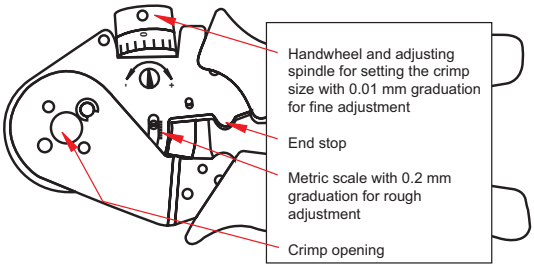

Fig. 7 *Crimp opening and scale in the crimping tool (front)*

3.3 Connector interface treatment

- Put the connector into the polishing disc (910PS0SC00001) (see figure 8) and grind off the overcomming end of the fiber with polishing paper graining size 1000 on a plain base (e.g. sheet of glass) and make a final polish with a polishing paper grinding size 4000
- After polishing please wipe off the residuals of polishing. The best result you get with wet polishing

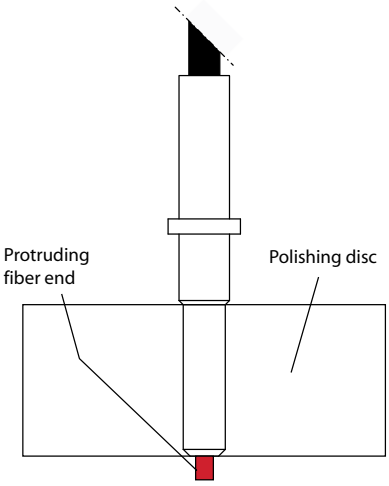

Fig. 8 *Polishing disc with lead of the connector sleeve*