

## Connector : SS Series

### General Instruction size 102...1051

#### Tools required

**For all versions:**

- Wire Cutter
- Stripping Tool
- Soldering Iron
- Flat Spanners according to connector size:

|                                 | Fischer Part Number |
|---------------------------------|---------------------|
| • 7 mm + 8mm (102 size)         | TX00.007 + TX00.008 |
| • 10 mm + 11mm (103, 1031 size) | TX00.010 + TX00.011 |
| • 12 mm + 13mm (104 size)       | TX00.012 + TX00.013 |
| • 15 mm + 16mm (105 size)       | TX00.015 + TX00.016 |
| • 18 mm + 19mm (1051 size)      | n/a                 |

**Additional tools for Crimp Contact versions:**

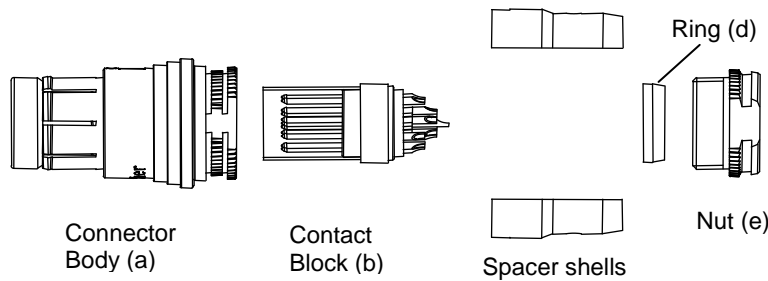
- Crimping Tool
- Positioner

**Fischer Part Number**

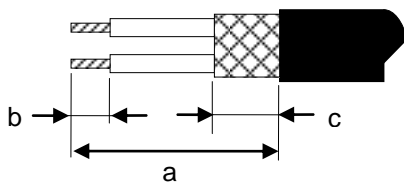
TX00.240  
(1)

(1) Positioner is specific to contact and connector size. Refer to general catalogue or contact technical support

#### 1 – Disassemble Connector



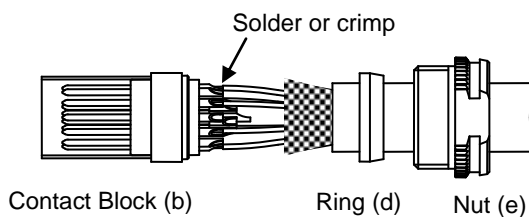
#### 2 – Strip Cable



All dimensions in mm.  
 These values are given for reference.  
 They must be adjusted to each specific cable construction and layout

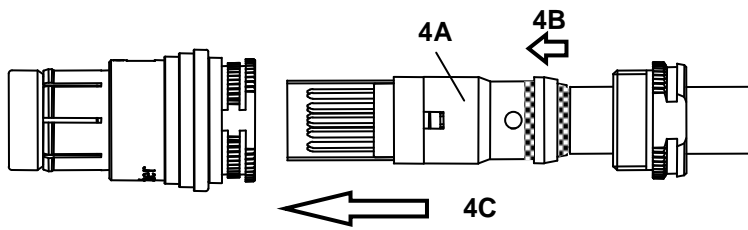
|                                     | 102 | 103 | 1031 | 104 | 105 | 1051 |
|-------------------------------------|-----|-----|------|-----|-----|------|
| Contact blocks with solder contacts |     |     |      |     |     |      |
| <b>a</b>                            | 14  | 15  | 14   | 17  | 20  | 22   |
| <b>b</b>                            | 2   | 2   | 2    | 2   | 2   | 2    |
| <b>c</b>                            | 6   | 6   | 6    | 7   | 8   | 9    |
| Contact blocks with crimp contacts  |     |     |      |     |     |      |
| <b>a</b>                            | 16  | 18  | 19   | 23  | 26  | 29   |
| <b>b</b>                            | 3   | 3   | 3    | 3   | 3   | 3    |
| <b>c</b>                            | 6   | 6   | 6    | 7   | 8   | 9    |

#### 3 – Terminate Contacts

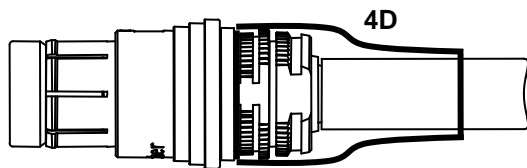


If required, slip heat shrink tube or boot onto cable before starting termination

#### 4 – Assemble Connector



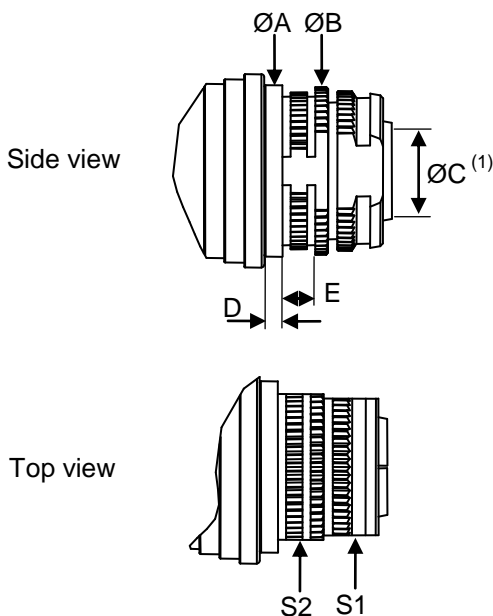
- 4A Fit Spacer shells (c) onto Contact Block (b). Make sure cable shield overlaps the spacer.
- 4B Slip Ring (d) over cable shield. Cable jacket must be pushed close to the spacer. If needed trim excess length of shield.
- 4C Assemble into Connector Body (a). Tighten nut (e) firmly. Threadlocking adhesive is recommended to secure the nut.



- 4D Seal and secure the cable by overmolding for optimum performance. Section 5 provides dimensions for mold design.

In case of termination with heat shrink, use only adhesive lined types. Some recommended types are listed in the general catalogue; refer to specialized documentation of heat shrink suppliers for optimum material choice. Section 5 provides connector back-end dimensions.

#### 5 – Back-end Dimensions



|                      | 102 | 103  | 1031 | 104  | 105  | 1051 |
|----------------------|-----|------|------|------|------|------|
| <b>A</b>             | 9.9 | 12.9 | 13.5 | 15.9 | 18.8 | 22.8 |
| <b>B</b>             | 9.6 | 12.6 | 13.1 | 15.4 | 18.5 | 22.4 |
| <b>C</b>             | 4.8 | 6.8  | 6.8  | 8.8  | 10.0 | 12.5 |
| <b>D</b>             | 1.5 | 1.9  | 2    | 2    | 2    | 2    |
| <b>E</b>             | 2.4 | 3    | 3.4  | 3.5  | 3.6  | 3.6  |
| <b>S1</b>            | 7   | 10   | 10   | 12   | 15   | 18   |
| <b>S2</b>            | 8   | 11   | 11   | 13   | 16   | 19   |
| All dimensions in mm |     |      |      |      |      |      |

For overmolding it is recommended to use precision diameter «A» for die closing.

Groove «E» will accept retention lips of most common heat shrinks

Note 1:  $\varnothing C$  = Cable max outer diameter