Fischer® CONNECTORS

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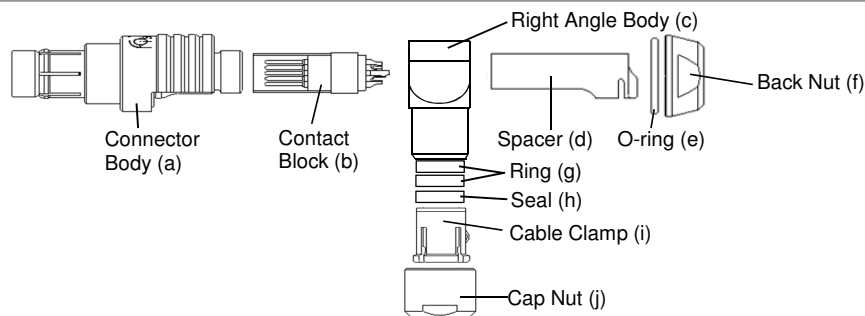www.fischerconnectors.com
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Connector : WSO 102
with sealed or unsealed cable clamp

Assembly Instruction
Instruction de Montage
Montageanleitung
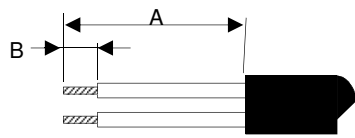
Tool Required

For all versions:	Fischer Part Number	Additional tools for Crimp Contact versions:		Fischer Part Number
• Flat Spanners:		• Crimping Tool for:	• 0.5 to 1.3mm contacts	TX00.240
• 7 mm	TX00.007			
• 8 mm	TX00.008			
		• Positioner for:	• 0.5mm male contacts	TX00.300
• Wire Cutter			• 0.5mm female contacts	TX00.302
• Stripping Tool			• 0.7mm male contacts	TX00.304
• Soldering Iron			• 0.7mm female contacts	TX00.305

1 - Disassemble Connector

Connector Body (a)
Contact Block (b)
Right Angle Body (c)
Spacer (d)
O-ring (e)
Back Nut (f)
Ring (g)
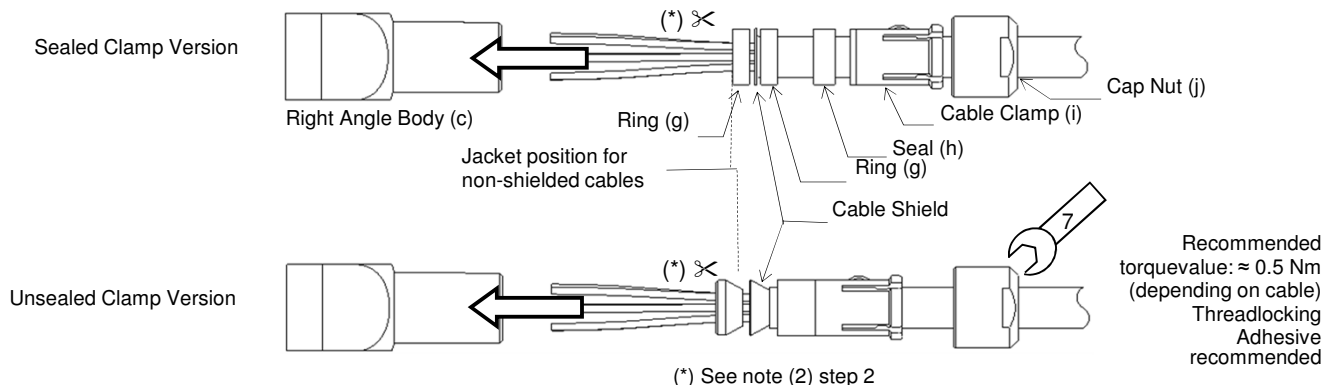Seal (h)
Cable Clamp (i)
Cap Nut (j)

2 - Strip Cable

A ≈ 18-20 mm [1]
B ≈ 2 mm [1]
C ≈ (4 – ½ Ø) mm [1] [2]
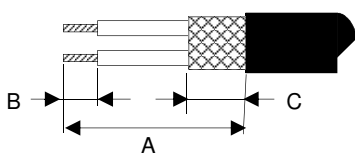
[1] These values are given for reference and must be adjusted to each specific cable construction.
It is recommended to strip "B" after step 3.

[2] Or trim shield after step 3 if possible

3 - Assemble Clamp Set

Sealed Clamp Version

Right Angle Body (c)
Ring (g)
Jacket position for non-shielded cables
Seal (h)
Ring (g)
Cable Shield
Cable Clamp (i)
Cap Nut (j)

Unsealed Clamp Version

(*) See note (2) step 2

Recommended torquevalue: ≈ 0.5 Nm (depending on cable)
Threadlocking Adhesive recommended

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4 - Terminate Contacts

Solder or crimp
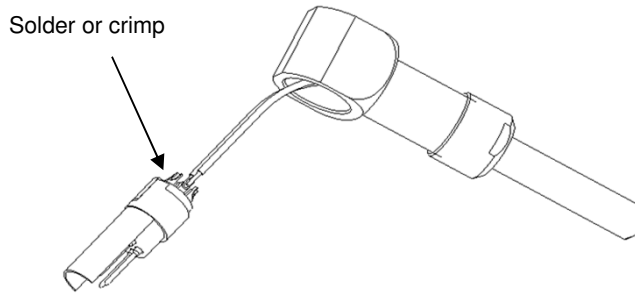
5 - Assemble Connector

5A   5B   5C
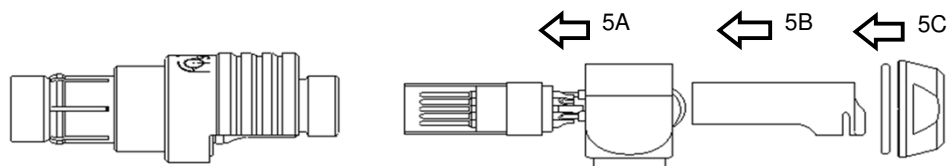
5A   Insert Block (b) and Right Angle Body (c) into Connector Body (a), bending wires smoothly.

Caution with crimp contacts:
Crimp contacts need extra space in the insulator, therefore they can move. **Never twist the cable and wires during the cable assembly;** this can apply too much force on the contacts.

5B   Slip Spacer (d) into Connector Body (a), being careful not to damage wires.

5C   Apply threadlocking adhesive on inner thread of Back Nut (f). Fit O-ring (e) into Back Nut (f) and close connector.

5D   Ensure that Right Angle Body (c) is centred in Outer Sleeve of Connector Body (a) (gap on both sides) before tightening Back Nut (f).

5E   Tighten Back Nut (f). Torque ≈ 1.0 Nm
Do not squeeze Connector Body in a vice to tighten Back Nut!

5F   Confirm that Outer Sleeve of Connector Body (a) can move freely. If not, it can be released by holding Right Angle Body (c) and turning slightly Back Nut (f) counter-clockwise.

5G   After the threadlocking adhesive has cured, check locking mechanism by mating connector with counterpart and pulling on Right Angle Body (c) in unmating direction. The connector should stay mated.
Pull on Outer Sleeve of connector. It should unlock and disconnect.

5B Correct fit of Spacer (d)

Outer Sleeve of Connector Body

5E

5F

5D
Gap on both sides

Right Angle Body (c)

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