iScher® CONNECTORS

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Connector : WSO 103
with sealed or unsealed cable clamp

Assembly Instruction
Instruction de Montage
Montageanleitung

Tool Required

For all versions:	Fischer Part Number
• Flat Spanners:	
• 10 mm	TX00.010
• 11 mm	TX00.011
• Wire Cutter	
• Stripping Tool	
• Soldering Iron	

Additional tools for Crimp Contact versions:		Fischer Part Number
• Crimping Tool for:	• 0.5 to 1.3mm contacts	TX00.240
• Positioner for:	• 0.7mm male contacts	TX00.304
	• 0.7mm female contacts	TX00.305
	• 0.9mm male contacts	TX00.307
	• 0.9mm female contacts	TX00.309

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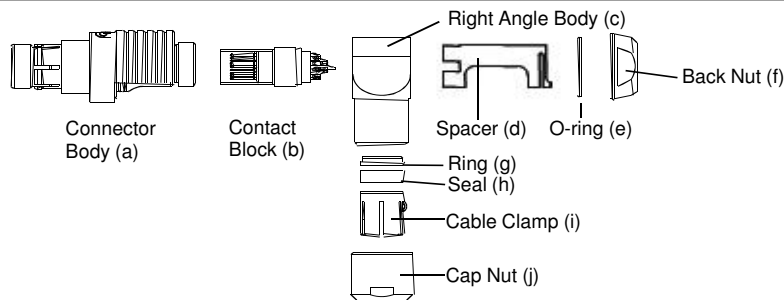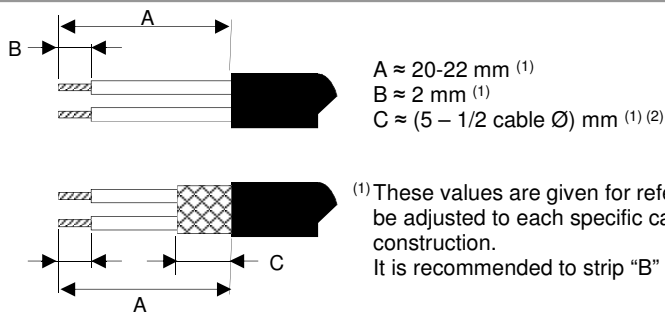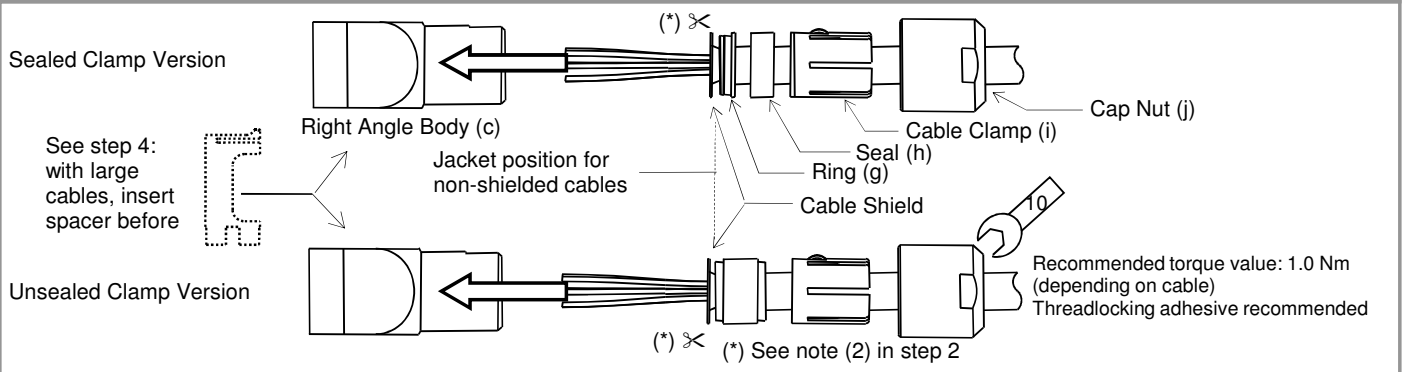
Connector Body (a)
Contact Block (b)
Right Angle Body (c)
Spacer (d)   O-ring (e)
Back Nut (f)
Ring (g)
Seal (h)
Cable Clamp (i)
Cap Nut (j)

2 - Strip Cable

A ≈ 20-22 mm [1]
B ≈ 2 mm [1]
C ≈ (5 − 1/2 cable 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

See step 4: with large cables, insert spacer before

Unsealed Clamp Version

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

Recommended torque value: 1.0 Nm (depending on cable)
Threadlocking adhesive recommended

(*) ✂   (*) See note (2) in step 2

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4 - Terminate Contacts

Solder or crimp

Pull Spacer (d) over Cable and through Right Angle Body (c)
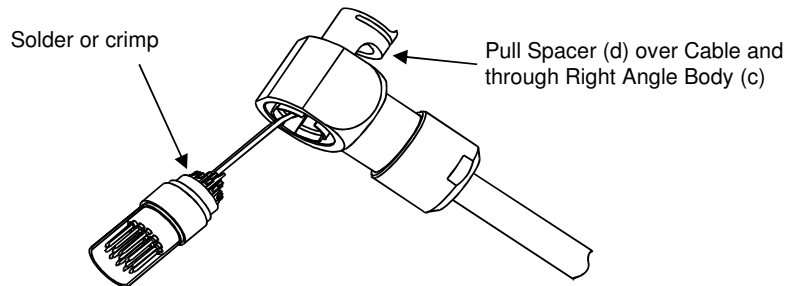
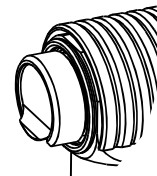## 5 - Assemble Connector

5B   5A   5C
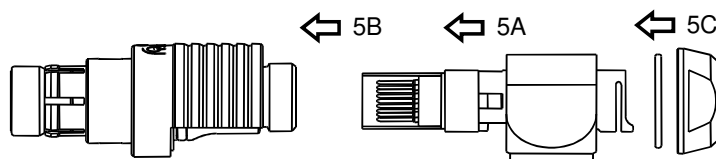
5A   Fit Spacer (d) onto Contact Block (b), bending wires smoothly and being careful not to damage wires.

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   Insert Block (b) into Connector Body (a).

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 ≈ 1.3 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

5D
Gap on
both sides

Right Angle
Body (c)

5E

5F

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