

MULTIFLUX-2 LINEAR CONNECTORS

USER INSTRUCTIONS



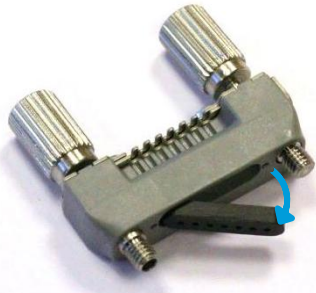
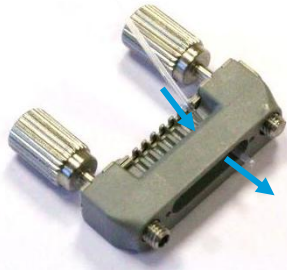
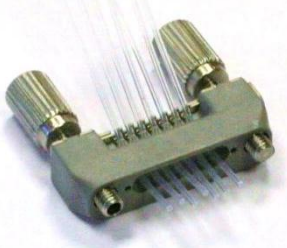

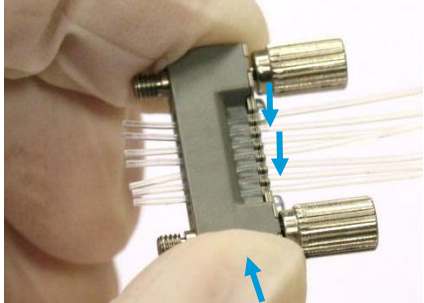
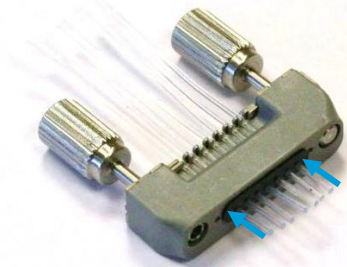
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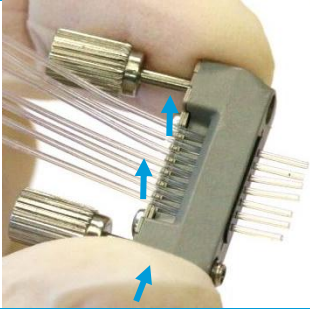
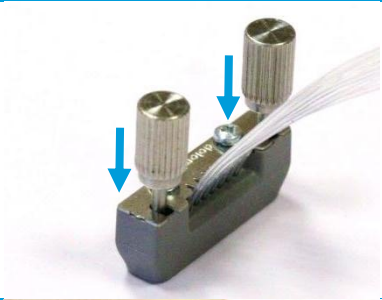
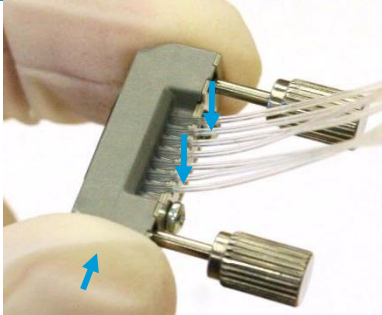
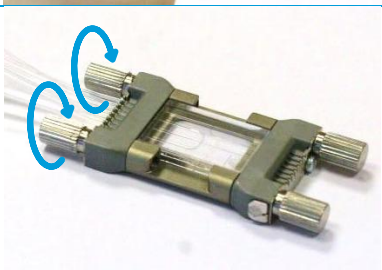

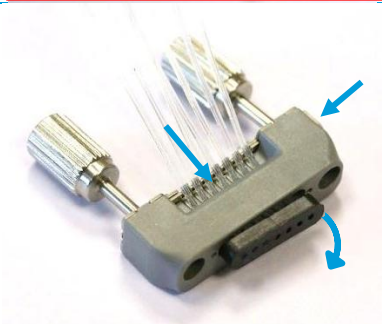
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1. Connector Description


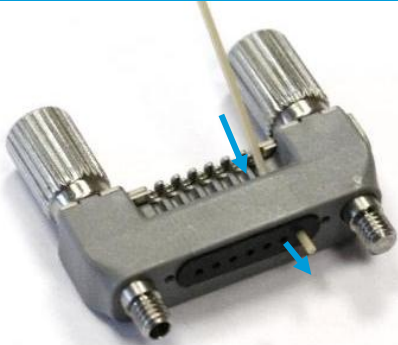
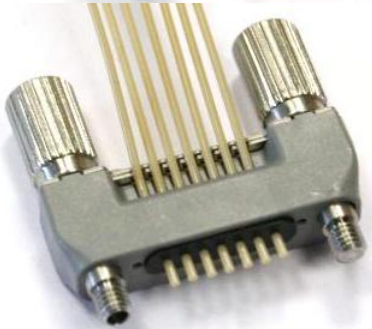
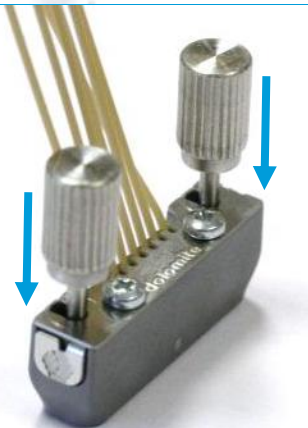
The Linear Connector 7-way (Part No. 3200148) is ideal for microfluidics or general lab-use and provides fast, reliable connection of 0.8 mm O.D. tubing. It allows 7 tubing lines to be simultaneously connected in a small space with precise alignment of flow paths.

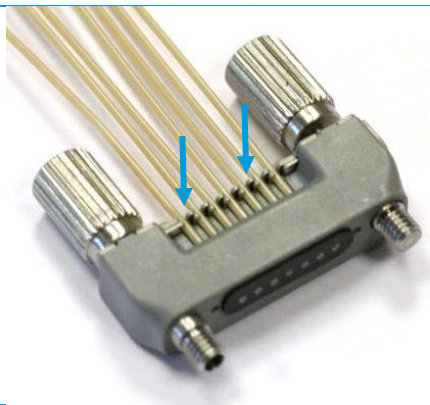
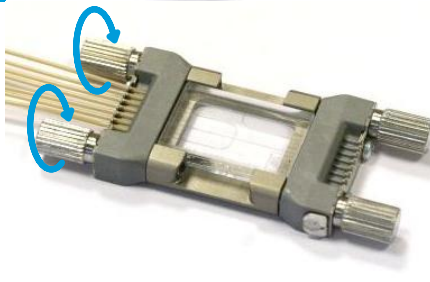
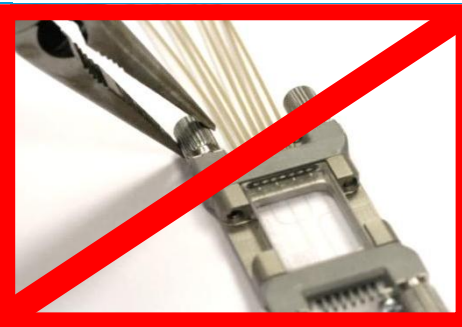
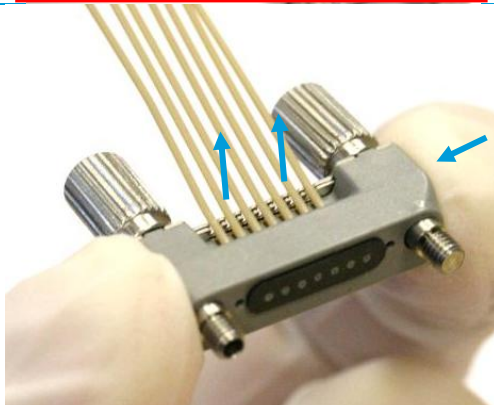
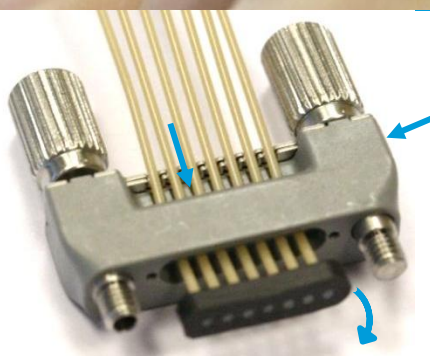
2. Assembly Instructions

1	<p>Remove the Linear Connector Seal 7-way (FKM) (Part No. 3000299) from the connector.</p>	
2	<p>Insert a tube (1/32inch, 0.8mm outside diameter) into one of the holes.</p> <p>Note: make sure the end of the tube has been cut with a clean 90° face.</p>	
3	<p>Repeat with the other six tubes.</p> <p>Note: Make sure that all seven tubes are present in the connector, even if some of the tubes do not connect to a microchannel on the chip. This will ensure the seal works at higher pressures.</p>	
4	<p>Push the tubes into the cleat to secure them while holding the button () down</p>	
5	<p>Insert seal into recess over tubes.</p>	



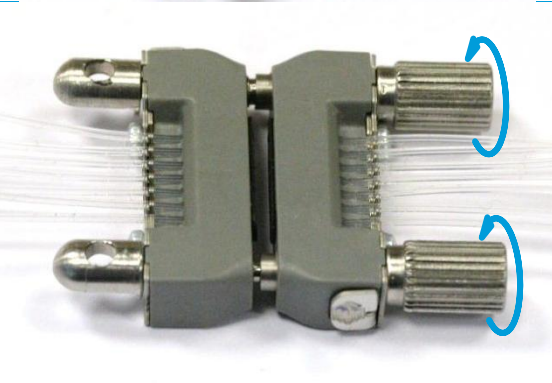

<p>6</p>	<p>Press the button to release the tubes and lift the tubes out of the cleats.</p>	
<p>7</p>	<p>Firmly push the face of the seal down onto a flat surface to align the end faces of the tubes with the face of the seal.</p>	
<p>8</p>	<p>Press the button and push the tubes back into the cleats for strain relief.</p>	
<p>9</p>	<p>Evenly tighten the thumbscrews down onto the chip header or chip holder.</p>	
<p>10</p>	<p>Do not over-tighten the thumbscrews. This can result in damage to the chip.</p>	
<p>11</p>	<p>To remove the seal:</p> <ul style="list-style-type: none"> - Remove the tubes from cleats as instruction 6. - Push tubes towards the seal to push the seal out. - Take seal off tubes. 	

3. Assembly Instructions for PEEK Tubing

<p>1</p>	<p>Ensure the seal is fitted in the connector.</p>	
<p>2</p>	<p>Insert a tube (1/32inch, 0.8mm outside diameter) into one of the holes and beyond the face of the seal.</p> <p>Note: make sure the end of the tube has been cut with a clean 90° face.</p>	
<p>3</p>	<p>Repeat with the other six tubes.</p> <p>Note: Make sure that all seven tubes are present in the connector, even if some of the tubes do not connect to a microchannel on the chip. This will ensure the seal works at higher pressures.</p>	
<p>4</p>	<p>Push the face of the seal down onto a flat surface to align the end faces of the tubes with the face of the seal.</p>	

<p>5</p>	<p>Push the tubes into the cleats for strain relief.</p>	
<p>6</p>	<p>Evenly tighten the thumbscrews down onto the chip header or chip holder.</p>	
<p>7</p>	<p>Do not over-tighten the thumbscrews. This can result in damage to the chip.</p>	
<p>8</p>	<p>To remove the tubes:</p> <ul style="list-style-type: none"> - Press the button to release the cleat. - Lift the tubes out of the cleat. 	
<p>9</p>	<p>To remove the seal:</p> <ul style="list-style-type: none"> - Remove the tubes from cleats as instruction 8. - Push tubes towards the seal to push the seal out. - Take seal off tubes. 	

4. Linear Connector 7-way In-Line (Part Number: 3200292)

<p>1</p>	<p>Insert tubes following section 2 or 3 as appropriate.</p>	
<p>2</p>	<p>Notice that one thumbscrew is hollowed and that there is a pin on one side of the linear connector 7-way female.</p>	
<p>3</p>	<p>Match the hollow with the pin and screw together.</p>	
<p>4</p>	<p>Screw together firmly Note: a small gap is left between the connectors.</p>	

5. PTFE Tube Cutter (Part Number: 3000398)

PTFE Tube Cutter is for tubing of 2mm outside diameter and below. To minimise dead volume it is important to have a 90° cut.

The double bevelled cutting blade produces clean 90° cut on PTFE, FEP, PEEK and other polymer tubes.



6. Linear Connector 7-way Microchannel (Part Number: 3200290)

The Linear Connector 7-way is ideal for precise connection to microfluidic chips with optimum alignment of 0.8 mm O.D. tubing bore to microchannel. It requires compatible ports in the microfluidic chip to accept the micro-scale alignment pins in the connector.

For user instructions follow sections 2&3, except rather than aligning the tubes with the seal on a flat surface, use the tool provided instead to avoid damaging the micro-pins.





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