

6 Function Blown Fibre Preparation Tool E00-5480



The 6 Function Blown Fibre Preparation tool is designed for use by both the Plan and Build and Lead to Cash engineers. The 6 different functions are:

1. Tube cutter
2. Bead crimper
3. Manifold tube measurement guide
4. Tube reforming nipple
5. Gas and Water block activation tool
6. 30mm splice protector fibre guide

1 Tube cutter

The tube cutter is used to cut Blown Fibre Tube (BFT). This can be used on 4, 5, 6 and 8mm tubes, but it is not suitable for use on either Blown Fibre Droptube or the Copper Hybrid as these 2 products have steel suspension wires embedded in their sheath which would damage the cutting blade.

Using a permanent marker pen, mark the required tube at the correct length and lay it in the "V groove" of the 6 in 1 tool, whilst holding the tool in the hand use your thumb to push down the cutting blade to cut the tube. See fig 1



Figure 1

2 Bead Crimper

The bead crimper is located on the left hand side of the 6 function tool and is used to fix a 1.4mm fibre blowing bead on to either 4 or 12 fibre unit.

To enable the crimper to fix the bead to the fibre unit correctly, the fibre unit must be cut using side cutters and not by "snapping" the fibre unit. The 4 fibre unit, with the resin coating intact, is inserted into the 1.4mm blowing bead and then inserted into the locating hole of the crimper. See fig 2.



Bead locating hole

Figure 2

To check that the bead is located correctly turn the 6 function tool over to visually check that the bead can be seen. See fig 3. To activate the crimper push down on the plunger on the top of the 6 in 1 tool. See fig 4. Whilst the bead is still in the tool, turn the fibre unit through approximately 180 degrees and activate the plunger again so that 2 indents are made in the bead. When using the 12 fibre unit, cut the fibre unit using side cutters and remove approximately 4 mm of resin from the end of the fibre unit and insert all 12 fibres into bead and then crimp as before.

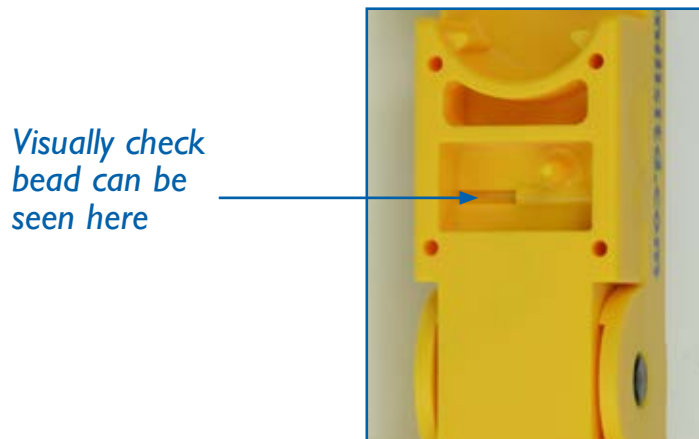


Figure 3

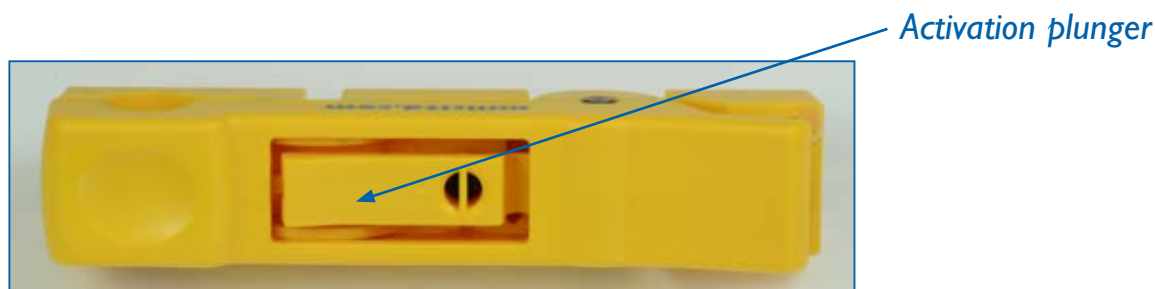


Figure 4

3 Manifold tube measurement guide

On the underside of the 6 function tool there is a measurement guide to help mark the 7 or 12 BFT that will be connected to the Manifold. These tubes **MUST** be inserted fully into the manifold to avoid problems whilst blowing. There are 2 marks on the guide. See fig 5. 1 mark for the centre three connectors on the manifold, (tubes Blue, orange and green) and 1 mark for the outer 9 connectors (tubes red, grey, yellow, brown, violet, black, white, pink and turquoise). When marked, the tubes are inserted into the connectors up to these marks.

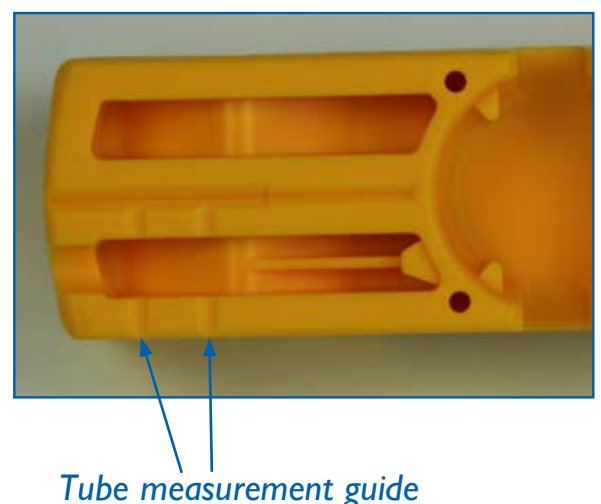
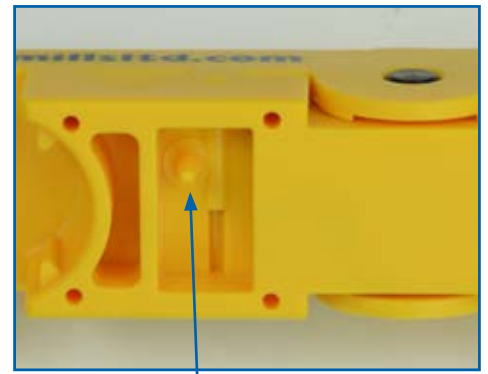


Figure 5

4 Tube reforming nipple

On the underside of the 6 function tool is a nipple, see fig 6, which is used to reform the internal bore of either the Blown fibre droptube or the Hybrid overhead drop after it has been cut to length. Using Nipper Diagonal Cutting 160mm (item code 127405) cut the tube to the required length, cut off the exposed steel suspension wires so that they are flush with the tube, and then reform the internal bore so that it becomes round again. This is achieved by inserting the Tube reforming nipple gently into the bore until the end of the tube touches the 6 function tool

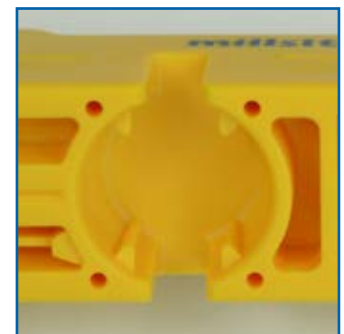


Tube reforming nipple
Figure 6

5 Water and Gas block activation tool

This is used to activate the Water block connector at the Fibre DP, and the Gas block connector at the CSP, without damaging the fibre unit.

Once the blown fibre unit has been installed, lay the connector in the activation tool see fig 7 and press down with the thumb to activate (close) the connector. Visually check that the gas/water block has been activated.



Water & Gas block activation tool

Figure 7

6 30mm Splice protector fibre guide

The Splice protector fibre guide is to help thread a single fibre through a 30mm splice protector.

To use, lay the splice protector in the widest groove of the guide, with the metal part of the splice protector on the top. Hold the splice protector in the groove with a thumb or finger; feed the single fibre along the narrower groove and into the splice protector. See fig 8.

Splice protector fibre guide

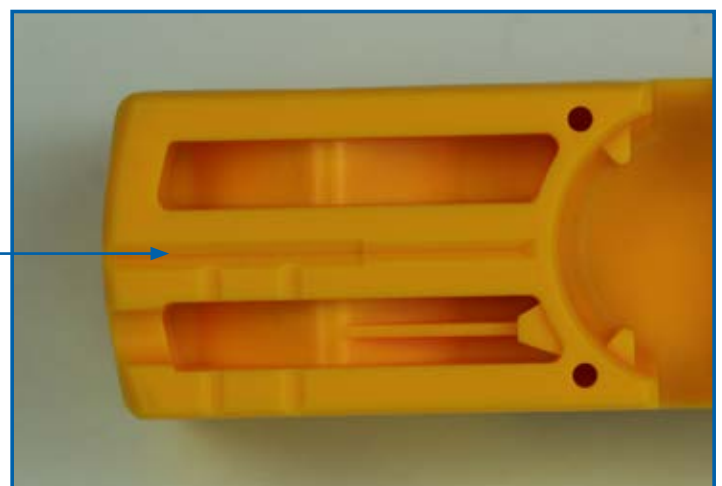


Figure 8