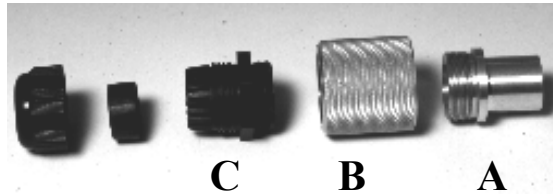


Assembling a FCREPxxx Series port

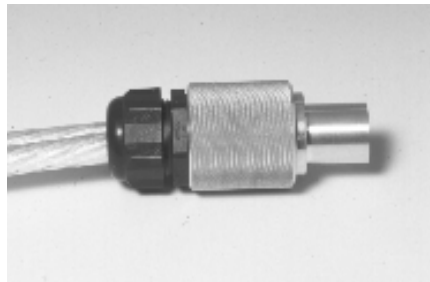
These ports vary in size depending on the number of fibres being used. Please verify by comparing the number shown on the port with the number of fibres you wish to use. i.e. a FCRE250 port will accept 250 fibres

This port is suitable for end-lit or side-lit PMMA cables from Crescent Lighting Ltd, series reference FSPT, FSPTe or BPAK.

1. **Loosely** bundle the cables, so that the ends are together
2. **Unscrew** the knurled section and plastic gland (B & C) and slide them back down the bundle of cables.



3. **Strip** approximately 75mm of outer sheathing away from each cable, taking care not to damage the clear, inner fibres. At this time cut off 1 piece of complete fibre 30mm long, these will be used in section 6.
4. **Push** the fibres, without sheathing, through the port end "A", until they are about 5-10mm clear.
5. **Reconnect** B & C, and tighten gland C on cable bundle.



6. **Back-pack** the port using 30mm long scraps of fibre until the port is completely full. Back-packing is an important process ensuring proper optical and thermal performance.
7. **The port** can be terminated in two ways: using a hot knife or using an electric grinding / buffing tool.

Hot knife: Use the edge of the port as a guide for the blade. Pass the knife slowly through the fibres, allowing the heat of the blade to cut the fibres. DO NOT force the blade through the fibres. A smooth, clean cut is essential to give optimum light output.

Electric grinder: Use a Medium 600 grit wheel, at slow speed, to cut the fibres and produce a smooth surface on the end of the port. Finish off using a polishing mop and buffing compound suitable for acrylic. Alternately for finishing off, you could purchase our **Crescent Polishing Kit** that consists of a cushion drum, polishing wheel, wheel arbour and polishing soap. Refer to the supplier's instructions for guidance.

8. **Ensure** the end of the port is clean by using isopropyl alcohol. Take special care to remove any metal dust or polishing material in the fibres. Do not touch the end once polishing is complete.