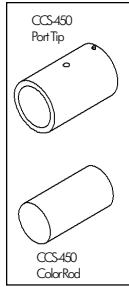


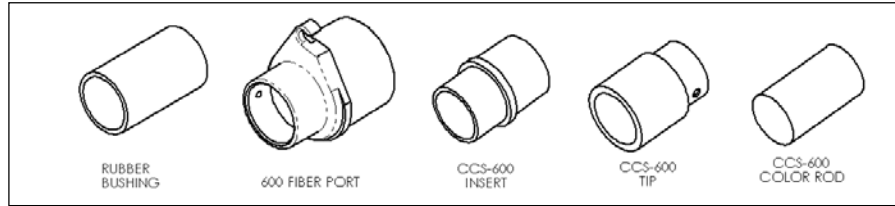
# Constant Color System



Constant Color System  
450 Strands

## CONSTANT COLOR SYSTEM - PORT ASSEMBLIES

Our exclusive, new patented Constant Color System allows all fibers to change color precisely at the same time, creating unique shades of blended color.

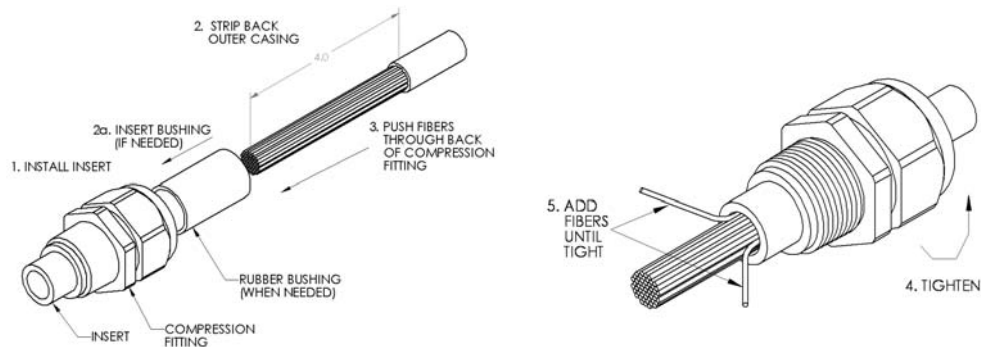


Constant Color System  
451 - 600 Strands

Part #	Description	List \$
CCS-450	Patented Constant Color System Port tip - 450 fiber capacity	\$29.98
CCS-600	Patented Constant Color System Port tip - 600 fiber capacity (with new port body for high capacity)	\$59.96

## CONSTANT COLOR SYSTEM: PORT ASSEMBLY INSTRUCTIONS 451 - 600 FIBERS

- A. Ensure that the total fiber count of all fiber strands is between 451 and 600. If you have more than 600 fibers you will need a second illuminator. The maximum capacity of this Constant Color System port is 600 fibers.
- B. Install the Insert into compression fitting and fully seat insert (Fig. 1).
- C. Strip back all fiber casings no less than 4 inches (Fig. 2). Take care not to nick the fibers.
- D. Insert the bare fibers into the insert so that ALL fibers protrude past the insert end (Fig. 3). Tighten the port compression nut down on the fiber casing (Fig. 4). If fiber casing will not go into the compression fitting then install the rubber bushing into the fitting half-way. (Fig 2a) Then insert the bare fibers until the fiber casing is in contact with the bushing. Tighten the port compression nut down on the bushing.
- E. **IMPORTANT: If the insert is not completely full, insert scrap individual fibers into the insert until it is completely full (Fig. 5). This will keep the lit fibers perpendicular to the lamp and prevent the fibers from overheating.**

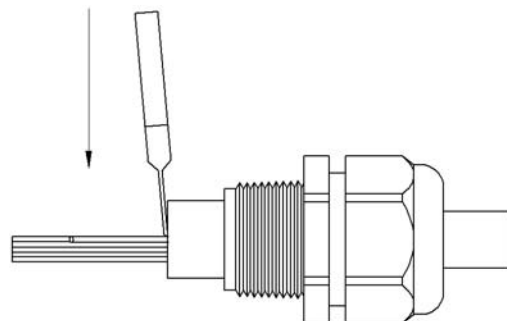


**Note: It is important that you match your fiber bundle with the correct size CCS.**  
**For example: Use a CCS-450 for 450 strands. Do not use a CCS-600.**

## CONSTANT COLOR SYSTEM:

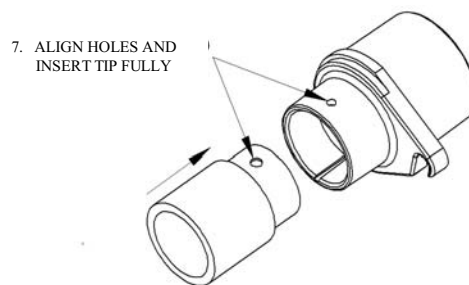
## PORT ASSEMBLY INSTRUCTIONS (CONT'D)

F. Heat up hot knife (PN FS-118 or FS-163). Once hot knife is up to temperature, apply firm downward pressure on the fibers with the blade touching the insert at a slight angle (Fig 6). **DO NOT SAW BACK AND FORTH.** Allow the heat of the knife to slowly trim the fibers. Ease the pressure off as the knife starts to complete the cut. Turn the hot knife off and allow it to cool in a safe place.



6. APPLY STEADY DOWNWARD FORCE WITH HOT KNIFE  
DO NOT SAW BACK AND FORTH

G. Line up hole on insert with hole on the port and fully seat the insert on the port (Fig. 7).

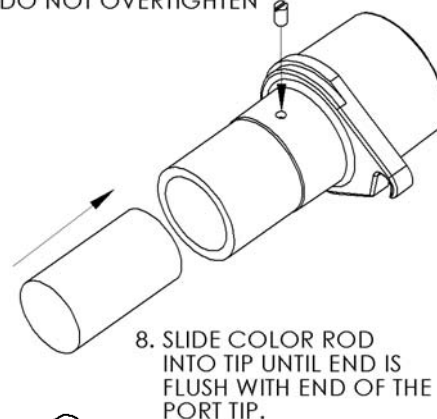


7. ALIGN HOLES AND  
INSERT TIP FULLY

H. **NOTE: Avoid touching the flat surfaces of the CC Rod as fingerprints will reduce light performance.**

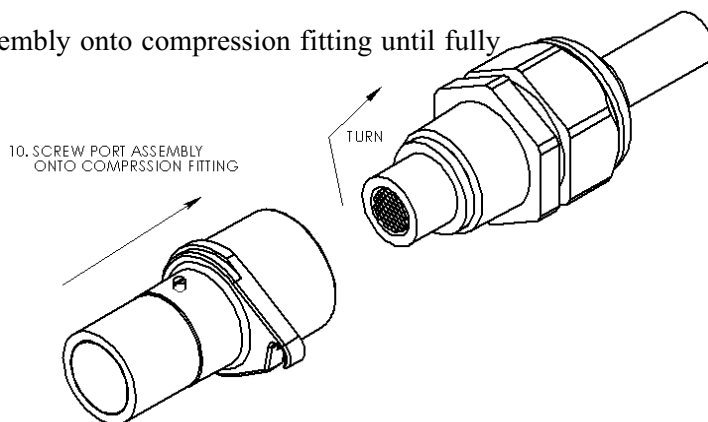
Slide the constant color rod inside the insert until the end is flush with the end of the tip (Fig. 8). Use the set screw to lock the constant color rod and tip in place (Fig. 9). **DO NOT OVER TIGHTEN!** Set screw should be just tight enough to keep the constant color rod and port tip in place.

9. INSTALL SET SCREW  
DO NOT OVERTIGHTEN



8. SLIDE COLOR ROD  
INTO TIP UNTIL END IS  
FLUSH WITH END OF THE  
PORT TIP.

I. Screw port assembly onto compression fitting until fully seated (Fig. 10)



10. SCREW PORT ASSEMBLY  
ONTO COMPRESSION FITTING