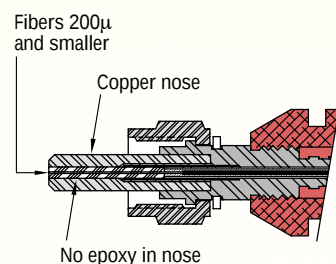
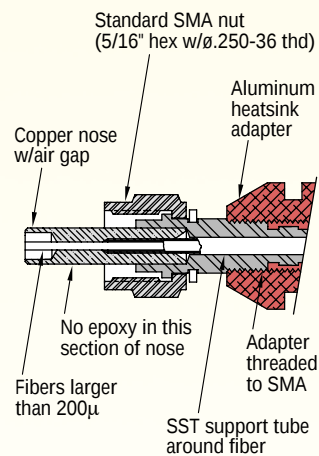


Technical Data

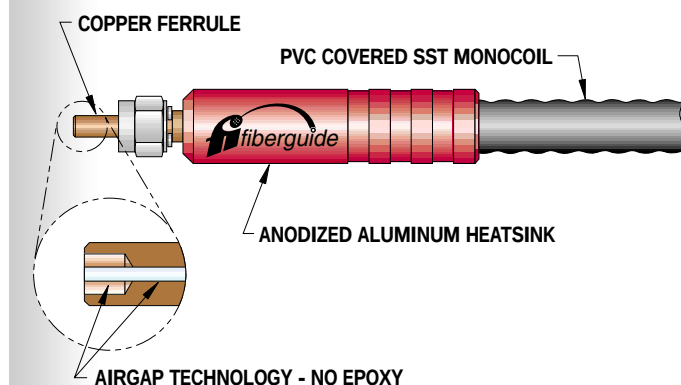
REFERENCE SUMMARY

Product Category:
Assembly



DESCRIPTION

Multimode, step-index fibers offer a simple, efficient way to accurately deliver high power laser beams without the use of bulky, inconvenient and often heavy articulated arms. Much care has been taken by Fiberguide Engineers in the design and assembly of our device. Our high power connectors feature an air-gap design, where the fiber extends into free space providing an epoxy-free region where thermal energy can be safely dissipated without burning the surrounding material. This is a crucial cause for failure in standard connectors. In addition we utilize a number of unique methods to finish the end of the fiber to maximize power handling, including cleaving the fiber end instead of polishing, and finally laser polishing the fiber end surface. A Fiberguide High Power Laser Delivery Assembly is light and flexible and is offered with a variety of fiber diameters as shown below. Care must be taken by the optical designer when selecting an optical system to deliver the power to the fiber assembly. The following information, plus the Nomograph, which can be found on a following page will assist the optical designer in selecting the correct fiber diameter for his specific application.



A HALMA COMPANY

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Form No: REF 723 DS031, Rev. 12/1/2009, Printed in the U.S.A.

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