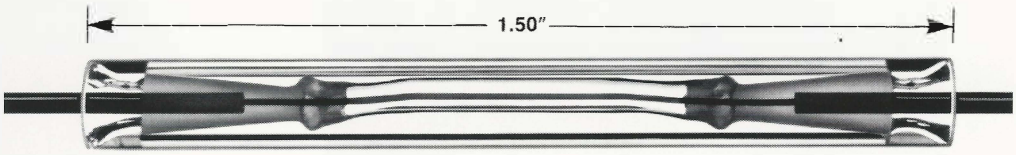
NORLAND

Fiber Optic Splice System

Norland Products Inc., the leading manufacturer of ultraviolet curing optical adhesives, has developed a complete fiber optic splicing system that provides a fast, easy method for making permanent, high performance connections. This system utilizes the exclusive Norland UVC Optical Splice and UV curing Norland Optical Adhesive. Together they form a superior system that is unmatched in simplicity and performance. The components of the system are described in this bulletin.



Norland UVC Optical Splice

The Norland UVC Optical Splice is the first really easy to use, high performance connection for optical fibers. This splice incorporates a precision TRW glass alignment guide and a protective glass sleeve in a unique one piece design that minimizes handling of bare fiber. Everything has been carefully engineered into this compact 1.5" glass tube. Just fill with Norland Optical Adhesive, insert fibers and cure for a sturdy, ready to handle splice in minutes. The wide mouth entrance of the splice makes it easy to insert fibers. This versatile design feature also allows the one splice to accommodate all types of fiber with any size buffer coating up to 1mm in diameter. The fibers easily slide into the central glass guide and automatically align with pinpoint accuracy. The all glass construction provides the perfect thermal match for optical fibers and assures long stability over a wide range of temperatures.

Suggested uses for the splice include extending a link, repairing a break, testing in the lab or attaching pigtailed devices into a system.

SPECIFICATIONS	
Dimensions	1.5" x 0.15" dia.
Materials of construction	
Alignment guide	borosilicate glass
Protective sleeve	borosilicate glass
Tapered channel	Kynar*
Fiber size	
P/N 20125	Accepts 125 to 140 micron fibers.
P/N 20126	Used for preinstalling pigtails. Accepts 125 to 140 micron fibers.
Light loss	0.20 dB Average
Temperature range	-40° to 70°C
Pull strength	6 Newtons Avg.
Assembly time	4 to 6 minutes
Tools required	Fiber Stripping Apparatus Fiber Cleaving Tool UVC Splice Holder UVC Splice Lamp or Norland Opticure Light Gun Norland Optical Adhesive Microscope or Magnifier

*T.M. Penwalt

P R O D U C T D A T A