

FUD-4221, Revision: C 460-HP-PVC-BL-3mm Optical Fiber

You have selected an application designed fiber, not fully released which may have a longer lead time than our standard products.

Parameter	Min	Nom	Max	Unit	Compliance
Operating Wavelength	450		600	nm	Design
Core Attenuation at 515 nm		30		dB/km	Design
Core Attenuation at 630 nm	0		12	dB/km	Measured
Core NA		0.13			Design
Cutoff	410		450	nm	Measured
Gaussian MFD at 515 nm	3		4	μm	Measured
Clad Diameter	124		126	μm	Measured
Core/Clad Offset	0		0.5	μm	Measured
Coating Diameter	230		260	μm	Measured
Coating-Clad Concentricity	0		5	μm	Measured
Buffer Diameter		900		μm	Design
Jacket diameter		3		mm	Design
Long Term Bend Radius	13			mm	Design
Short Term Bend Radius	6			mm	Design
Prooftest Level	200		240	kpsi	Measured
Operating Temperature Range	-55		85	°C	Design
Core Diameter		2.5		μm	Design
Comments	Buffer Requirements: Buffered with tight PVC to 900 microns nominal. Coating Requirements: UV-cured, dual acrylate coating. Other Requirements: Fiber is first inked in BLACK, with inking expected to add 5 to 10 ums to the acrylate coating diameter of the fiber. Designed for lower power applications. For powers >5-10 mW, Nufern S405-XP fiber is recommended. Jacket Color: Blue. Jacket Requirements: Buffered fiber will then be covered by aramid yarn strength members before jacketing with tight PVC to 3 mm nominal. Jacket to be labeled with Nufern's base fiber part number in 1 or 2 meter increments. Bend Loss: The Bend loss at 460 (100 turns, 13mm radius) is <0.001 dB, by design. Bend Radius: The Bend Radius for 0.05 dB/100 turns at 460 nm is much less than LTBR, by design.				



