



# FUD-4222, Revision: B 630-HP-PVC-RD-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	630		780	nm	Design
Core NA		0.13			Design
Core Attenuation at 630 nm	0		12	dB/km	Measured
Cutoff	540		600	nm	Measured
Mode Field Diameter at 630 nm	3.5		4.5	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
Proof test Level	200		240	kpsi	Measured
Long Term Bend Radius	13			mm	Design
Short Term Bend Radius	6			mm	Design
Operating Temperature Range	-55		85	°C	Design
Core Diameter		3.5		μm	Design
Comments	<p>Buffer Requirements: Buffered with tight PVC to 900 microns nominal.</p> <p>Coating Requirements: UV cured dual acrylate coating.</p> <p>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.</p> <p>Jacket Color: Red.</p> <p>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.</p> <p>Bend Loss: The Bend Loss at 630 nm (100 turns at 13 mm radius) is &lt;0.001 dB, by design.</p> <p>Bend Radius: The Bend Radius for 0.05 dB/100 turns at 630 is much less than LTRB, by design.</p>				



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Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.