



# FUD-3397, Revision: A PM780-BK-S-BN 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	780		970	nm	Design
Core Attenuation at 850 nm	0		4	dB/km	Measured
Core NA		0.12			Design
Cutoff	650		770	nm	Measured
Gaussian MFD at 850 nm	4.3		6.3	μm	Measured
Birefringence		0.00035			Design
Beat Length at 850 nm		2.4		mm	Design
Crosstalk at 850 nm per 4 meters	-55		-40		Measured
Core Diameter		4.5		μm	Design
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
Proof test Level	200		220	kpsi	Measured
Operating Temperature Range	-40		85	°C	Design
Silicone Buffer Diameter	400		450	μm	Measured
Nylon Buffer Diameter	850		950	μm	Measured
Comments	Buffer Requirements: Fiber is first inked in BLACK, with inking expected to add 5 to 10 ums to the acrylate coating diameter of the fiber. Next, fiber to be buffered with Silicone to 425 +/- 25 microns. Fiber to finally be jacketed with black Nylon to 900 +/- 50 microns. Coating Requirements: UV Cured, Dual Acrylate. Other Requirements: Attenuation at 850 nm to be measured on fiber prior to buffering. Fiber will be proof tested prior to buffering. Normalized Cross Talk measured at 980 nm < -40 dB at 4 meter length.				



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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.