



RADIATION RESISTANT PATCHCORDS

Linden's RadHard fiber optic patchcords provide a complete solution where a robust fiber optic link is needed in a harsh, high radiation environment. A wide variety of cable constructions are available to meet your specific requirements including our patented Non-Kink™ cable. Tested as per European Space Agency - ESCC Basic Specification No. 2263010



TYPICAL SPECIFICATIONS

Number of Fibers	1-3
Fiber Type	Single/Multi Mode
Cable Diameter	700 μ m – 2mm
Tensile Strength	50lbs – >200lbs
Minimum Bend Radius	5mm – 10mm
Attenuation @ 1310 nm	0.45 dB/km
Attenuation @ 1550 nm	0.35 dB/km
Temperature	-55 ⁰ C to 125 ⁰ C



FIBER TYPE*

Singlemode

Ge-Doped	A
Pure Silica Core Low Loss	B
Pure Silica Bend Insensitive 1310nm	C
Pure Silica Bend Insensitive 1550nm	D
Fluorine Doped	E
Fluorine Doped Mil Spec 49291	F

Multimode

Step Index 50um polyimide	G
Ge-Doped 200um	H
Ge-Doped 300um	I
Ge-Doped 400um	J
Graded Index 50um	K
Graded Index 62.5um	L
Graded Index 100um	M

*From NASA Fiber Optic Radiation Database. Additional types available upon request

CABLE JACKET**

Non-Kink™	A
High Tensile Strength	B
High Temperature	C
Low Temperature	D
Standard	E

**Proprietary jackets suffer no degradation in tensile strength after 1000 MRad exposure



COLOR

Natural	N
Black	B
Orange	O
Yellow	Y
Custom	X

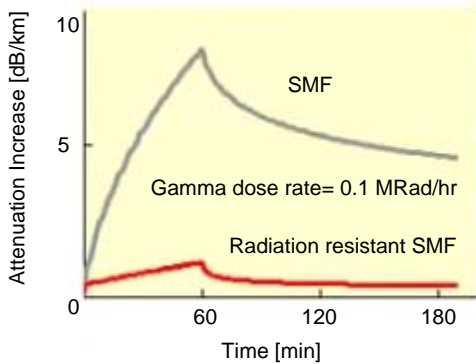
CONNECTOR***

AVIM Singlemode – PC	S1
AVIM Singlemode – APC	S2
AVIM Multimode – PC	S3
AVIM Mini Singlemode – PC	SM1
AVIM Mini Singlemode – APC	SM2
AVIM Mini Multimode – PC	SM3

***High performance connector qualified for spaceflight by NASA.



Typical Radiation Performance



ASSEMBLY PART NUMBER

X-XX-X-XXX-XXX-X

Fiber Type

Cable Jacket

Color

Connector B
Connector A

Length (m)