

A photograph of an Ariane 5 rocket being launched from the Guiana Space Centre. The rocket is ascending vertically, with a large plume of fire and white smoke at its base. The launch pad is visible, with the ESA and Ariane logos on the side. Several tall service towers are positioned around the launch pad. The sky is a mix of blue and orange, suggesting a sunset or sunrise. A green graphic element, consisting of several lines radiating from a point in the upper right, is overlaid on the image.

# *Radiation Hardened Optical Cable*

**Optical and Mechanical  
Performance to 20MRad**



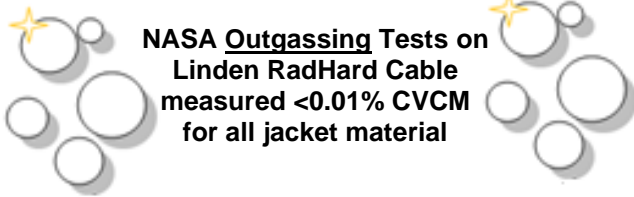
## Radiation Hardened



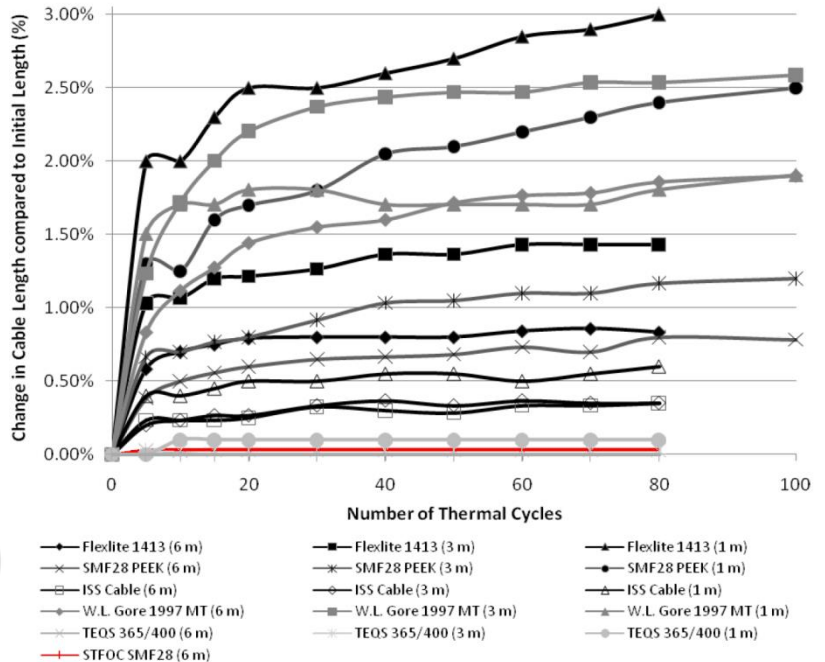
Linden's RadHard fiber optic cables provide a complete solution where a robust fiber optic link is needed in a harsh, high radiation environment. A wide variety of cable constructions are available to meet your specific requirements including our patented Non-Kink™ cable. Tested as per European Space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

## Features

- Maintain optical and mechanical performance to >20MRad Tested to ESCC Spec No. 2263010
- Tested to NASA-STD-8739.5
- Tested to SAE AS5382
- No carbon layer needed

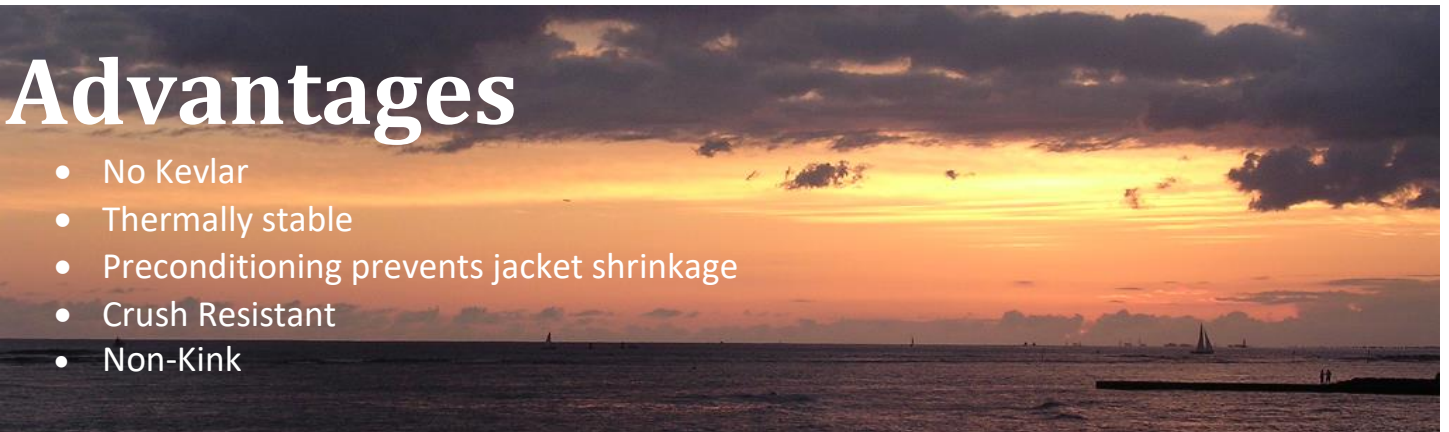


**NASA Outgassing Tests on Linden RadHard Cable measured <0.01% CVM for all jacket material**



## Advantages

- No Kevlar
- Thermally stable
- Preconditioning prevents jacket shrinkage
- Crush Resistant
- Non-Kink





## Singlemode

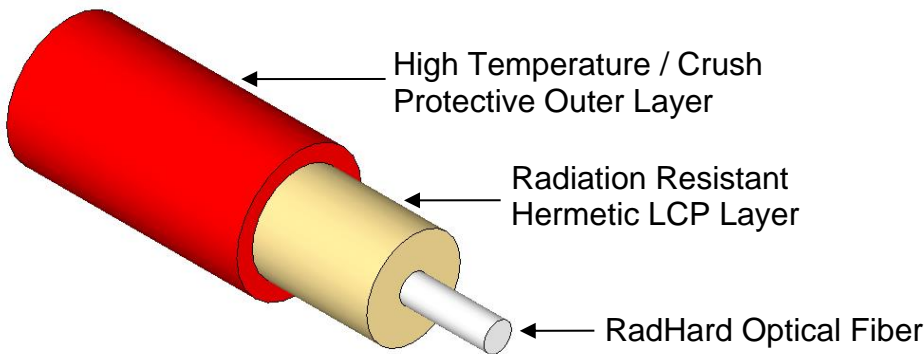
Spec No.	Part No.	Fiber Type	OD (mm)	Typical Connector Loss (dB)	Tensile Strength (lbs)
<a href="#">LINDEN-SPE-7079</a>	1-M-A-27-J-65-YEL	RadHard Singlemode	1.65	<0.2dB	50
<a href="#">LINDEN-SPE-7208</a>	1-M-A-27-J-79-YEL	RadHard Singlemode	2.0	<0.2dB	50
<a href="#">LINDEN-SPE-7209</a>	1-M-A-27-J-87-YEL	RadHard Singlemode	2.2	<0.2dB	50
<a href="#">LINDEN-SPE-7068</a>	1-EE-A-27-J-65	RadHard Polyimide	1.65	<0.2dB	45
<a href="#">LINDEN-SPE-7216</a>	1-EE-A-27-J-79	RadHard Polyimide	2.0	<0.2dB	45
<a href="#">LINDEN-SPE-7217</a>	1-EE-A-27-J-87	RadHard Polyimide	2.2	<0.2dB	45

## Multimode

Spec No.	Part No.	Fiber Type	OD (mm)	Typical Connector Loss (dB)	Tensile Strength (lbs)
<a href="#">LINDEN-SPE-7088</a>	1-N-A-27-J-35-ORN	RadHard MM (50/125)	.900	<0.2dB	50
<a href="#">LINDEN-SPE-7210</a>	1-N-A-27-J-65-ORN	RadHard MM (50/125)	1.65	<0.2dB	50
<a href="#">LINDEN-SPE-7211</a>	1-N-A-27-J-79-ORN	RadHard MM (50/125)	2.0	<0.2dB	50
<a href="#">LINDEN-SPE-7212</a>	1-N-A-27-J-87-ORN	RadHard MM (50/125)	2.2	<0.2dB	50
<a href="#">LINDEN-SPE-7081</a>	1-O-A-27-J-19-65	RadHard MM (62.5/125)	1.65	<0.2dB	50
<a href="#">LINDEN-SPE-7213</a>	1-O-A-27-J-79-ORN	RadHard MM (62.5/125)	2.0	<0.2dB	50
<a href="#">LINDEN-SPE-7214</a>	1-O-A-27-J-87-ORN	RadHard MM (62.5/125)	2.2	<0.2dB	50
<a href="#">LINDEN-SPE-7346</a>	12-SM-O-U-114	RadHard MM (50/125)	2.9	<0.2dB	60

## Singlemode & Multimode

Spec No.	Part No.	Fiber Type	OD (mm)	Typical Connector Loss (dB)	Tensile Strength (lbs)
<a href="#">LINDEN-SPE-7294</a>	4-FO-U-102-O-122-J-137	Two (2) RadHard SM + Two (2) x RadHard MM	3.5	<0.2dB	250



Artemis Launch

CONTACT LINDEN FOR MORE DETAILED SPECIFICATIONS OR CUSTOM REQUIREMENTS



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