



***Buoyant Cable***

**Floats**

**Strong**

**Neutrally Buoyant**





## Buoyant Cable

Linden's buoyant STFOC™ fiber optic cables are available for a variety of underwater uses from munitions tethers to ROV controls to mooring buoys.

Our lightweight, buoyant designs are customized to your needs. From neutrally buoyant designs to cable that will float on water, we can customize your size, buoyancy and strength. Using Linden's patented cable jacket construction designed to protect the fiber in the harsh subsea environment, our cables are compact and rugged; flexible and strong.

## Features

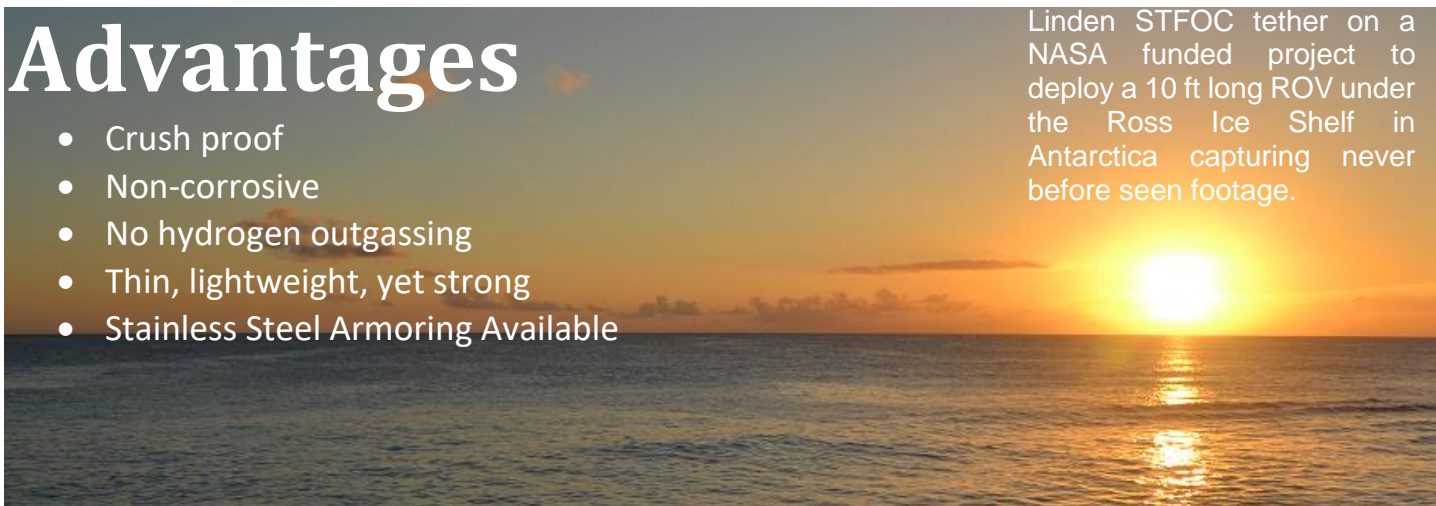
- From the thinnest, lightest 290µm cable to 13mm+ cables with multi-ton break strength
- Precise density control for positive, neutral or negative buoyancy
- Designs with or without Kevlar
- Non-Kink™ design prevents hockling
- Continuous lengths >5km
- Hermetic coating protects fiber from moisture Hydrogen & Helium for increased operational life
- Abrasion resistant



GA Tech used a 3.5 mm Linden STFOC tether on a NASA funded project to deploy a 10 ft long ROV under the Ross Ice Shelf in Antarctica capturing never before seen footage.

## Advantages

- Crush proof
- Non-corrosive
- No hydrogen outgassing
- Thin, lightweight, yet strong
- Stainless Steel Armoring Available





## Singlemode

| Spec No.                         | Part No.                               | OD (mm) | Attenuation @ 1310nm (dB/km) | Attenuation @ 1550nm (dB/km) | Tensile Strength (lbs) | Density (s.g.) |
|----------------------------------|--|---------|------------------------------|------------------------------|------------------------|----------------|
| <a href="#">LINDEN-SPE-7089</a>  | 1-FF-C-2-11-ORN                        | 0.295   | 1.0                          | 1.0                          | 10                     | 1.13           |
| <a href="#">LINDEN-SPE-7263</a>  | 1-JJ-C-13                              | 0.333   | 0.45                         | 0.35                         | 10                     | 1.12           |
| <a href="#">LINDEN-SPE-7040</a>  | 1-SM-C-20                              | 0.500   | 0.35                         | 0.25                         | 10                     | 0.95           |
| <a href="#">LINDEN-SPE-7096</a>  | 1-SM-A-21-R-36-YEL                     | 0.900   | 0.45                         | 0.35                         | 40                     | 1.03           |
| <a href="#">LINDEN-SPE-7260</a>  | 1-SM-A-21-R-33-B-36-YEL                | 0.915   | 0.45                         | 0.30                         | 45                     | 1.045          |
| <a href="#">LINDEN-SPE-7207</a>  | 1-SM-A-27-R-46-YEL                     | 1.1     | 0.45                         | 0.35                         | 50                     | 1.027          |
| <a href="#">LINDEN-SPE-7073</a>  | 1-SM-A-27-L-67                         | 1.7     | 0.45                         | 0.35                         | 50                     | 1.02           |
| <a href="#">LINDEN-SPE-7036</a>  | 1-SM-A-27-O-47-L-75                    | 1.9     | 0.45                         | 0.35                         | 250                    | 1.01           |
| <a href="#">LINDEN-SPE-7411</a>  | 1-SM-J-36-O-56-L-85                    | 2.2     | 0.45                         | 0.35                         | 250                    | 0.95           |
| <a href="#">LINDEN-SPE-7223</a>  | 1-SM-A-27-B-30-O-47-L-108              | 2.75    | 0.45                         | 0.35                         | 250                    | 1.00           |
| <a href="#">LINDEN-SPE-7055</a>  | 1-SM-A-27-O-67-L-137                   | 3.5     | 0.45                         | 0.35                         | 450                    | 0.99           |
| <a href="#">LINDEN-SPE-7098</a>  | 1-SM-A-27-O-55-X-137                   | 3.5     | 0.45                         | 0.35                         | 750                    | 0.99           |
| <a href="#">LINDEN-SPE-7401</a>  | 4-SM-V-102-O-122-FQ-140                | 3.55    | 0.45                         | 0.35                         | 250                    | 1.03           |
| <a href="#">LINDEN-SPE-7494</a>  | 4-SM-63-V-O-90-X-157                   | 4.0     | 0.5                          | 0.5                          | 660                    | 0.89           |
| <a href="#">LINDEN-SPE-7094</a>  | 1-SM-A-27-R-46-O-101-X-169-YEL         | 4.3     | 0.45                         | 0.35                         | 1,200                  | 0.97           |
| <a href="#">LINDEN-SPE-7281</a>  | 2-SM-V-63-O-134-FQ-174                 | 4.4     | 0.50                         | 0.50                         | 1,350                  | 1.03           |
| <a href="#">LINDEN-SPE-7491</a>  | 2-SM-63-V-FQ-130-O-145-Q-177           | 4.5     | 0.50                         | 0.50                         | 660                    | 0.92           |
| <a href="#">LINDEN-SPE-7316*</a> | 1-SM-A-21-B-24-W-48-FQ-185             | 4.7     | 0.45                         | 0.35                         | 300                    | 0.95           |
| <a href="#">LINDEN-SPE-7229</a>  | 1-SM-A-21-R-35-O-175-X-232             | 5.9     | 0.50                         | 0.50                         | 1,700                  | 0.98           |
| <a href="#">LINDEN-SPE-7534</a>  | 1-SM-A-27-B-30-O-47-L-108-O-170-FQ-246 | 6.2     | 0.45                         | 0.35                         | 2,000                  | 0.92           |
| <a href="#">LINDEN-SPE-7305</a>  | 1-SM-A-27-B-30-O-120-FQ-250            | 6.35    | 0.45                         | 0.35                         | 1,300                  | 0.75           |
| <a href="#">LINDEN-SPE-7420</a>  | 1-SM-A-27-B-30-O-80-FQ-300             | 7.6     | 0.45                         | 0.35                         | 750                    | 0.70           |
| <a href="#">LINDEN-SPE-7137</a>  | 4-FO-L-183-O-242-L-370                 | 9.4     | 0.60                         | 0.60                         | 2,750                  | 0.97           |
| <a href="#">LINDEN-SPE-7059</a>  | 1-SM-A-27-L-160-T-230-L-440-Q-520      | 13.2    | 0.60                         | 0.40                         | 2,750                  | 1.03           |
| <a href="#">LINDEN-SPE-7060</a>  | 3-SM-A-41-L-174-T-244-L-454-Q-534      | 13.6    | 0.40                         | 0.30                         | 2,750                  | 1.02           |

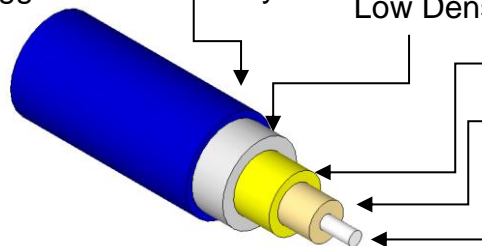
## Multimode (50/125)

| Spec No.                        | Part No.                         | OD (mm) | Attenuation @ 850nm (dB/km) | Attenuation @ 1300nm (dB/km) | Tensile Strength (lbs) | Density (s.g.) |
|---------------------------------|----------------------------------|---------|-----------------------------|------------------------------|------------------------|----------------|
| <a href="#">LINDEN-SPE-7074</a> | 1-F-C-5-20                       | 0.500   | 3.5                         | 3.0                          | 10                     | 0.95           |
| <a href="#">LINDEN-SPE-7075</a> | 1-F-A-27-L-67                    | 1.7     | 3.5                         | 3.0                          | 50                     | 1.02           |
| <a href="#">LINDEN-SPE-7076</a> | 1-F-A-27-O-47-L-75               | 1.9     | 3.5                         | 3.0                          | 250                    | 1.01           |
| <a href="#">LINDEN-SPE-7412</a> | 1-F-J-36-O-56-L-85               | 2.2     | 3.5                         | 3.0                          | 250                    | 0.95           |
| <a href="#">LINDEN-SPE-7456</a> | 1-AC-V-63-O-85-L-120             | 3.0     | 3.0                         | 1.0                          | 450                    | 1.0            |
| <a href="#">LINDEN-SPE-7077</a> | 1-F-A-27-O-67-L-137              | 3.5     | 3.5                         | 3.0                          | 450                    | 0.99           |
| <a href="#">LINDEN-SPE-7280</a> | 4-FO-O-170-L-300-GG-340          | 6.6     | 3.5                         | 3.0                          | 450                    | 1.03           |
| <a href="#">LINDEN-SPE-7078</a> | 1-F-A-27-L-160-T-230-L-440-Q-520 | 13.2    | 3.5                         | 3.0                          | 2,000                  | 1.03           |

## Multimode (62.5/125)

| Spec No.                        | Part No.              | OD (mm) | Attenuation @ 850nm (dB/km) | Attenuation @ 1300nm (dB/km) | Tensile Strength (lbs) | Density (s.g.) |
|---------------------------------|-----------------------|---------|-----------------------------|------------------------------|------------------------|----------------|
| <a href="#">LINDEN-SPE-7093</a> | 1-I-A-27-O-47-L-75    | 1.9     | 3.5                         | 3.0                          | 250                    | 1.01           |
| <a href="#">LINDEN-SPE-7091</a> | 1-I-A-A-27-O-67-L-137 | 3.5     | 3.5                         | 3.0                          | 450                    | 0.99           |

Optional Ruggedized Outer Layer



Low Density (Buoyant) Material

Optional Kevlar Strength Members

Hermetic LCP Layer

Commercial Grade Optical Fiber

CONTACT LINDEN FOR MORE DETAILED SPECIFICATIONS OR CUSTOM REQUIREMENTS

\*Stainless Steel Armored





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