

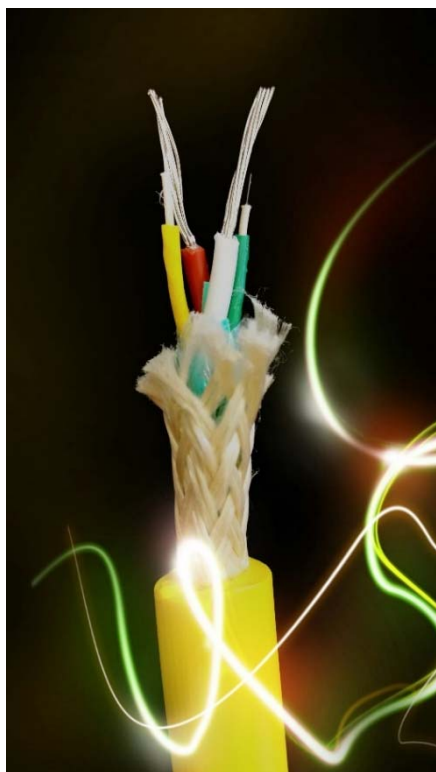


*Hybrid Cables*

**Rugged & Durable**

**Buoyant**

**Thin & Lightweight**



## Hybrid Cables

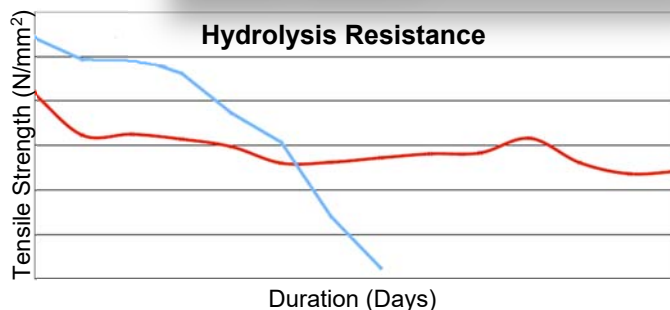
Linden Photonics **hybrid cables** combine copper and fiber elements in a **lightweight**, yet strong and robust tether cable. Linden can customize your size, buoyancy and strength; from **neutrally buoyant** designs to extremely thin cables with various conductor offerings and fiber types available. Linden's patented cable jacket construction is designed to protect delicate fibers in the harsh subsea environment. Linden's hybrid cables are compact and rugged; flexible and strong.

## Features

- Rugged, durable patented STFOC fiber optic elements
- Hermetic coating protects fiber from moisture
- Buoyant designs
- Thin wall insulation = thinner/lighter cables
- Fiber strength members = lighter cables
- Vectran strength members available offering less self-abrasion and longer service life
- 300V, 600V & 1,000V standard ratings

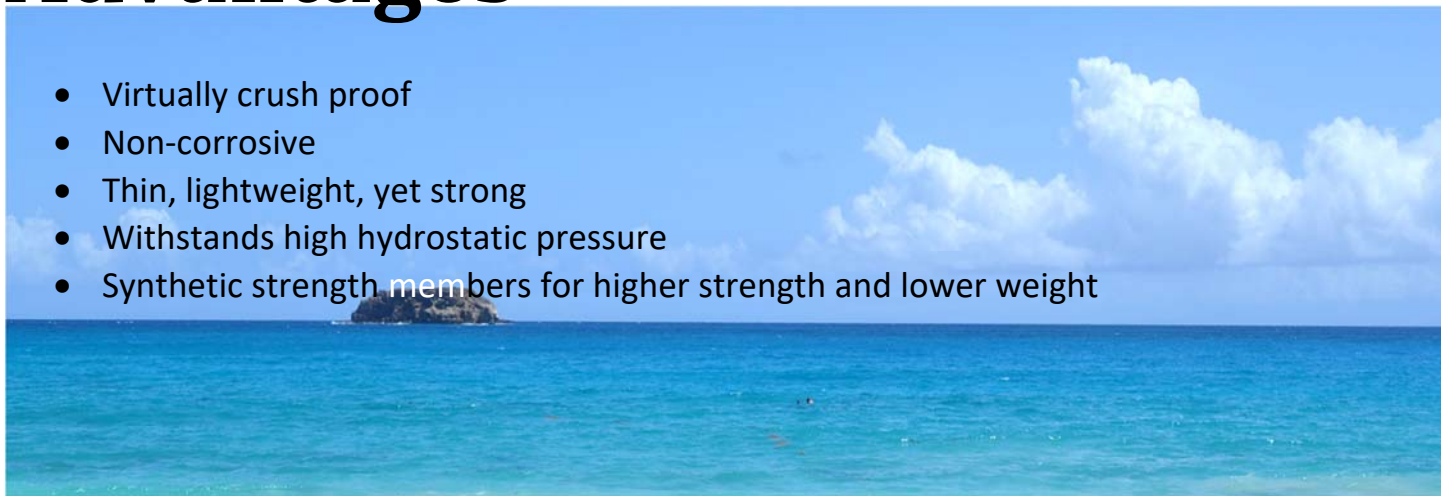
Our standard TPU is an **Ether grade** providing better hydrolysis performance in moisture rich environments.

**Ester grades** are available non-humid environments requiring improved abrasion resistance.



## Advantages

- Virtually crush proof
- Non-corrosive
- Thin, lightweight, yet strong
- Withstands high hydrostatic pressure
- Synthetic strength members for higher strength and lower weight





## Specifications

Spec No.	Part No.	OD (mm)	Fiber Type	Conductor Type	Tensile Strength (lbs)
<a href="#">LINDEN-SPE-7136</a>	2-CU-1-FO-BB-120-22759	3.0	1 x Singlemode	2 x 22 AWG	N/A
<a href="#">LINDEN-SPE-7148*</a>	2-CU-1-FO-O-10-FQ-146-YEL	3.7	1 x Singlemode	2 x 28 AWG	450
<a href="#">LINDEN-SPE-7149*</a>	2-CU-1-FO-O-10-FQ-192-YEL	4.9	2 x Singlemode	2 x 24 AWG	450
<a href="#">LINDEN-SPE-7152*</a>	2-CU-2-FO-O-155-Q-195	5.0	2 x Singlemode	2 x 24 AWG	2,100
<a href="#">LINDEN-SPE-7170</a>	4-CU-1-FO-S-138-O-168-L-228	5.8	1 x Singlemode	4 x 22 AWG	450
<a href="#">LINDEN-SPE-7107*</a>	2-CU-2-FO-O-155-Q-235	6.0	2 x Singlemode	2 x 24 AWG	2,100
<a href="#">LINDEN-SPE-7104</a>	2-CU-1-FO-O-155-Q-250	6.4	1 x Singlemode	2 x 20 AWG	880
<a href="#">LINDEN-SPE-7161*</a>	3-CU-1-FO-O-150-FQ-250	6.4	1 x Singlemode	1 x 20 AWG (TP) + 28 AWG	1,600
<a href="#">LINDEN-SPE-7195*</a>	2-CU-1-FO-O-150-FQ-250	6.4	1 x Singlemode	2 x 20 AWG	1,600
<a href="#">LINDEN-SPE-7162*</a>	1-CU-3-FO-O-175-FQ-275	7.0	3 x Singlemode	1 x 20 AWG (TP)	1,600
<a href="#">LINDEN-SPE-7189*</a>	2-CU-2-FO-O-150-FQ-250	7.1	2 x Singlemode	2 x 20 AWG	1,600
<a href="#">LINDEN-SPE-7120</a>	3-CU-2-FO-O-280-Q-320	8.1	2 x Singlemode	2 x 22 AWG	5,500
<a href="#">LINDEN-SPE-7141*</a>	8-CU-1-FO-O-235-FQ-323	8.2	1 x Singlemode	8 x 26 AWG	1,500
<a href="#">LINDEN-SPE-7138*</a>	2-CU-2-FO-O-225-FQ-330	8.4	2 x Singlemode	2 x 18 AWG	1,000
<a href="#">LINDEN-SPE-7164</a>	2-SM-2-CU-O-207-Q-337	8.6	2 x Singlemode	2 x 20 AWG	2,400
<a href="#">LINDEN-SPE-7121</a>	8-CU-12-FO-Q-350	8.9	12 x Singlemode	8 x 18 AWG	-
<a href="#">LINDEN-SPE-7153*</a>	2-CU-1-FO-O-263-FQ-362	9.2	1 x Singlemode	2 x 24 AWG	1,600
<a href="#">LINDEN-SPE-7177</a>	5-CU-1-FO-O-246-Q-366	9.3	2 x Singlemode LT	4 x 18 AWG + #24STP	1,760
<a href="#">LINDEN-SPE-7142*</a>	2-CU-3-FO-O-20-Q-367	9.3	3 x Singlemode	2 x 14 AWG	1,500
<a href="#">LINDEN-SPE-7122</a>	2-CU-2-FO-O-155-Q-390	9.9	2 x Singlemode	2 x 16 AWG	2,200
<a href="#">LINDEN-SPE-7160*</a>	2-CU-3-FO-O-263-FQ-393	10.0	3 x Singlemode	4 x 20 AWG	1,600
<a href="#">LINDEN-SPE-7123</a>	2-FO-2-CU-T-320-Q-400	10.2	2 x Singlemode	2 x 14 AWG	800
<a href="#">LINDEN-SPE-7128*</a>	1-SM-2-CU-O-312-FQ-412	10.5	1 x Singlemode	2 x 22 AWG	5,000
<a href="#">LINDEN-SPE-7166</a>	2-CU-3-FO-O-325-Q-415-YEL	10.5	3 x Singlemode	2 x 12 AWG	1,200
<a href="#">LINDEN-SPE-7167</a>	2-CU-4-FO-O-327-Q-417-YEL	10.6	4 x Singlemode	2 x 12 AWG	1,200
<a href="#">LINDEN-SPE-7103</a>	4-CU-4-FO-O-155-Q-420	10.7	2 x Singlemode	4 x 13 AWG	1,300
<a href="#">LINDEN-SPE-7206</a>	4-SM-10-CU-Q-439	11.2	4 x Singlemode	10 x 18 AWG	-
<a href="#">LINDEN-SPE-7131*</a>	1-FO-5-CU-O-260-FQ-460	11.7	1 x Singlemode	5 x 18 AWG	1,100
<a href="#">LINDEN-SPE-7124*</a>	3-SM-4-CU-O-55-FQ-454	11.5	2 x SM + 1 x MM	2 x 18 AWG	3,200
<a href="#">LINDEN-SPE-7199*</a>	4-FO-4-CU-O-55-S-65-FQ-470	11.9	4 x Singlemode	2 x 18 AWG	3,200
<a href="#">LINDEN-SPE-7163</a>	3-SM-4-CU-O-55-S-65-Q-457	11.5	3 x Singlemode	2 x 18 AWG	3,200
<a href="#">LINDEN-SPE-7131*</a>	1-FO-5-CU-O-260-FQ-460	11.7	1 x Singlemode	4 x 18 AWG	1,100
<a href="#">LINDEN-SPE-7102</a>	4-CU-4-FO-O-155-DD-470	11.9	4 x Singlemode	4 x 16 AWG	5,500
<a href="#">LINDEN-SPE-7178*</a>	5-CU-1-FO-O-246-M-405-Q-484	12.3	2 x Singlemode LT	4 x 18AWG + #24STP	1,760
<a href="#">LINDEN-SPE-7100*</a>	2-CU-2-FO-O-155-Q-500	12.7	2 x Singlemode	4 x 14 AWG	2,100
<a href="#">LINDEN-SPE-7110*</a>	1-SM-3-CU-Q-328-R-500	12.7	1 x Singlemode	3 x 16 AWG	450
<a href="#">LINDEN-SPE-7151*</a>	4-CU-4-FO-S-287-O-387-FQ-547	13.9	4 x Singlemode	4 x 20 AWG	5,500





<a href="#">LINDEN-SPE-7106*</a>	4-CU-2-FO-O-155-Q-550	14.0	2 x Singlemode	4 x 13 AWG + 2 x 19AWG	1,573
<a href="#">LINDEN-SPE-7109</a>	5-CU-2-FO-O-155-Q-550	14.0	2 x Singlemode	5 x 16 AWG	15,400
<a href="#">LINDEN-SPE-7143</a>	4-CU-4-FO-S-280-O-450-S-550	14.0	4 x Singlemode	4 x 20 AWG	11,000
<a href="#">LINDEN-SPE-7125*</a>	2-CU-2-FO-Q-557	14.1	2 x Singlemode	2 x 16 AWG	1,200
<a href="#">LINDEN-SPE-7139</a>	4-CU-2-FO-S-377-T-525-GG-620	15.7	2 x Singlemode	4 x 16 AWG	12,320
<a href="#">LINDEN-SPE-7101</a>	4-CU-4-FO-O-175-Q-650	16.5	4 x Singlemode	4 x 16 AWG	23,100
<a href="#">LINDEN-SPE-7126</a>	2-FO-12-CU-T-535-FQ-709	18.0	2 x Singlemode	2 x 14 AWG 10 x 23 AWG (TP)	3,600
<a href="#">LINDEN-SPE-7111*</a>	3-CU-2-FO-S-730	18.5	2 x Singlemode	3 x 18 AWG	2,200
<a href="#">LINDEN-SPE-7127</a>	3-SM-1-MM-6-CU-Q-410-Q-760	19.3	3 x SM + 1 x MM	2 x 20 AWG	15,400
<a href="#">LINDEN-SPE-7113</a>	3-FO-3-CU-O-630-DD-770	19.6	3 x Singlemode	3 x 16 AWG	35,200
<a href="#">LINDEN-SPE-7108*</a>	8-CU-4-FO-O-155-Q-910	23.1	4 x Singlemode	8 x 18 AWG	15,400
<a href="#">LINDEN-SPE-7194*</a>	2-CU-1-FO-O-420-FQ-1036	26.3	1 x Singlemode	2 x 8 AWG	1,250
<a href="#">LINDEN-SPE-7112*</a>	4-CU-4-FO-S-1210	30.7	2 x SM + 2 x MM	4 x 15 AWG	3,934

\*Denotes Buoyant Design



CONTACT LINDEN PHOTONICS FOR MORE DRAWINGS, DETAILED SPECIFICATIONS OR  
CUSTOM REQUIREMENTS





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