

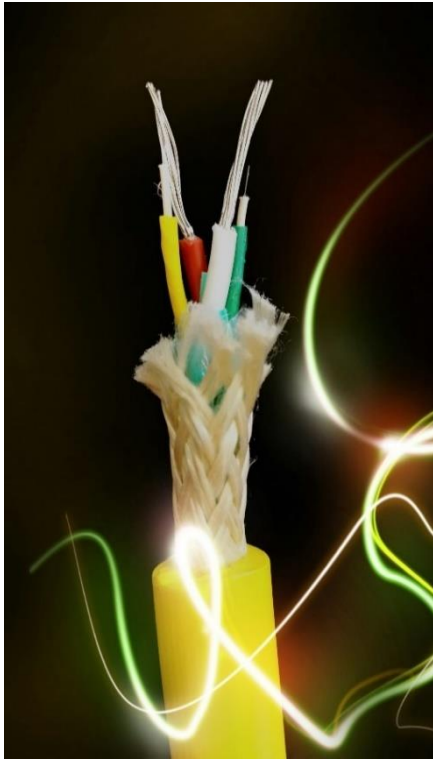


***Hybrid Cables***

**Rugged & Durable**

**Buoyant**

**Thin & Lightweight**



## Hybrid Cables

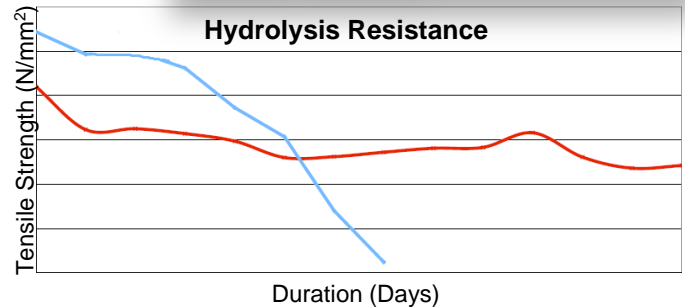
Linden Photonics **hybrid cables** combine copper and fiber elements in a **lightweight**, yet strong and robust tether cable. Linden can customize your size, buoyancy and strength; from **neutrally buoyant** designs to extremely thin cables with various conductor offerings and fiber types available. 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

CONTACT LINDEN FOR DRAWINGS, SPECIFICATIONS OR CUSTOM REQUIREMENTS



## Specifications

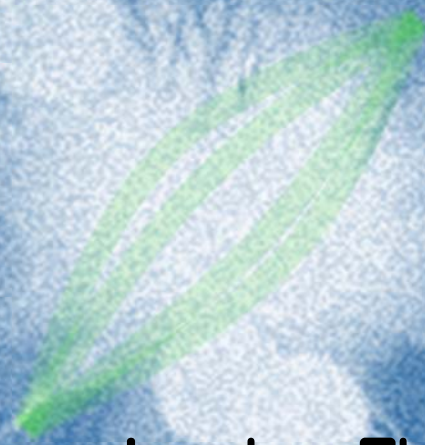
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
<b>1 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7136</a>	1-FO-2-CU-BB-120-22759	3	1 x SM	2 x #22	N/A
<a href="#">LINDEN-SPE-7373</a>	1-FO-6-CU-O-11-Q-135	3.2	1 x SM	6 x #26	450
<a href="#">LINDEN-SPE-7148*</a>	1-FO-2-CU-O-10-FQ-146-YEL	3.7	1 x SM	2 x #28	450
<a href="#">LINDEN-SPE-7149*</a>	1-FO-2-CU-O-10-FQ-192-YEL	4.9	1 x SM	2 x #24	450
<a href="#">LINDEN-SPE-7218*</a>	1-FO-2-CU-O-10-FQ-192-YEL-95A	4.9	1 x SM	2 x #24	450
<a href="#">LINDEN-SPE-7221*</a>	1-FO-2-CU-O-10-FMM-192-YEL	4.9	1 x SM	2 x #24	450
<a href="#">LINDEN-SPE-7290</a>	1-FO-2-CU-O-171-FQ-211	5.4	1 x SM	2 x #16	250
<a href="#">LINDEN-SPE-7170</a>	1-FO-4-CU-S-138-O-168-L-228	5.8	1 x SM	4 x #22	450
<a href="#">LINDEN-SPE-7104</a>	1-FO-2-CU-O-155-Q-250	6.4	1 x SM	2 x #20	880
<a href="#">LINDEN-SPE-7161*</a>	1-FO-3-CU-O-150-FQ-250	6.35	1 x SM	1 x #20 (TP) + #28	1,600
<a href="#">LINDEN-SPE-7195*</a>	1-FO-2-CU-O-150-FQ-250	6.35	1 x SM	2 x #20	1,600
<a href="#">LINDEN-SPE-7326</a>	1-FO-3-CU-O-150-FQ-250-NN-295	7.5	1 x SM	2 x #20 & 1 x #28 DW	1,600
<a href="#">LINDEN-SPE-7141*</a>	1-FO-8-CU-O-235-FQ-323	8.2	1 x SM	8 x #26	1,500
<a href="#">LINDEN-SPE-7248*</a>	1-FO-6-CU-O-197-FQ-338	8.6	1 x SM	2 x #20, 2 x #24 TP	200
<a href="#">LINDEN-SPE-7153*</a>	1-FO-2-CU-O-263-FQ-362	9.2	1 x SM	2 x #20 TP	1,600
<a href="#">LINDEN-SPE-7128*</a>	1-FO-2-CU-O-312-FQ-412	10.5	1 x SM	2 TP x #22	5,000
<a href="#">LINDEN-SPE-7386*</a>	1-FO-2-CU-X-2880-288-FQ-434	11.0	1 x SM	2 x #17 & 1 x #26 DW	1,200
<a href="#">LINDEN-SPE-7131*</a>	1-FO-5-CU-O-260-FQ-460	11.7	1 x SM	5 x #18	1,100
<a href="#">LINDEN-SPE-7110*</a>	1-FO-3-CU-Q-328-R-500	13	1 x SM	3 x #16	450
<a href="#">LINDEN-SPE-7194*</a>	1-FO-2-CU-O-420-FQ-1036	26.3	1 x SM	2 x #8	1,250
<b>2 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7277</a>	2-FO-2-CU-O-171-FQ-211	5.4	2 x SM	2 x #16	250
<a href="#">LINDEN-SPE-7152*</a>	2-FO-2-CU-O-155-Q-215	5.5	2 x SM	2 x #24	2,100
<a href="#">LINDEN-SPE-7345</a>	2-FO-2-CU-O-197-OO-260	5.5	2 x SM LT	2 x #16	2,400
<a href="#">LINDEN-SPE-7107*</a>	2-FO-2-CU-O-155-Q-235	6	2 x SM	2 x #24	2,100
<a href="#">LINDEN-SPE-7311</a>	2-FO-3-CU-O-173-Q-252	6.4	2 x SM	3 x #20	250
<a href="#">LINDEN-SPE-7189*</a>	2-FO-2-CU-O-150-FQ-278	7.1	2 x SM	#20 TP + #28 DW	1,600
<a href="#">LINDEN-SPE-7327</a>	2-FO-3-CU-O-150-FQ-250-NN-295	7.9	2 x SM	1 x #20 TP & 1 x #28 DW	3,200
<a href="#">LINDEN-SPE-7120</a>	2-FO-3-CU-O-280-Q-320	8.1	2 x SM	3 x #22	5,500
<a href="#">LINDEN-SPE-7138*</a>	2-FO-2-CU-O-225-FQ-330	8.4	2 x SM	2 x #18	1,000
<a href="#">LINDEN-SPE-7164</a>	2-FO-2-CU-O-207-Q-337	8.6	2 x SM	2 x #20	2,400
<a href="#">LINDEN-SPE-7177</a>	2-FO-5-CU-O-246-Q-366	9.3	2 x SM LT	4 x #18 + #24STP	1,760
<a href="#">LINDEN-SPE-7122</a>	2-FO-2-CU-O-155-Q-390	9.9	2 x SM	2 x #16	2,200
<a href="#">LINDEN-SPE-7355</a>	2-FO-2-CU-Q-138-O-320-B-390	9.9	2 x SM LT	2 x #24	16,000
<a href="#">LINDEN-SPE-7123</a>	2-FO-2-CU-T-320-Q-400	10.2	2 x SM	2 x #14	800
<a href="#">LINDEN-SPE-7103</a>	2-FO-2-CU-O-155-Q-420	10.7	2 x SM	4 x #13	1,300
<a href="#">LINDEN-SPE-7293</a>	2-FO-2-CU-O-388-Q-448	11.4	2 x SM	2 x #12	4,000
<a href="#">LINDEN-SPE-7227</a>	2-FO-6-CU-X-297-O-327-DD-470-ORN	12	2 x SM	4 x #16, 2 x #24 TP	5,000
<a href="#">LINDEN-SPE-7313</a>	2-FO-2-CU-Q-138-O-320-B-475	12.1	2 x SM	2 x #14	800
<a href="#">LINDEN-SPE-7178*</a>	2-FO-5-CU-O-246-M-405-Q-484	12.3	2 x SM LT	4 x #18, #24STP	1,760
<a href="#">LINDEN-SPE-7100*</a>	2-FO-2-CU-O-155-Q-500	12.7	2 x SM	2 x #14	2,100
<a href="#">LINDEN-SPE-7291</a>	2-FO-2-CU-NN-216-Z-422-S-530	13.5	2 x SM	2 x #16	12,000
<a href="#">LINDEN-SPE-7241*</a>	2-FO-4-CU-O-55-S-65-FQ-535-ORN	13.6	2 x SM	4 x #16	3,200
<a href="#">LINDEN-SPE-7106*</a>	2-FO-4-CU-O-155-Q-550	13.9	2 x SM	4 x #20	1,573
<a href="#">LINDEN-SPE-7109</a>	2-FO-5-CU-O-155-Q-550	13.9	2 x SM	5 x #16	15,400
<a href="#">LINDEN-SPE-7222</a>	2-FO-4-CU-S-280-O-450-S-550	14	2 x SM	4 x #20	11,000
<a href="#">LINDEN-SPE-7292</a>	2-FO-2-CU-JJ-415-Q-550	14	2 x SM	2 x #16	29,000
<a href="#">LINDEN-SPE-7125*</a>	2-FO-2-CU-Q-557	14.1	2 x SM	2 x #16	1,200
<a href="#">LINDEN-SPE-7228*</a>	2-FO-2-CU-365-FQ-585-YEL	14.9	2 x SM	2 x #16	2,200
<a href="#">LINDEN-SPE-7354</a>	2-FO-5-CU-Q-322-T-500B-600	15.25	2 x SM LT	5 x #16	14,000



Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
<a href="#">LINDEN-SPE-7233*</a>	2-FO-2-CU-O-397-FQ-617-YEL	15.7	2 x SM	2 x #16	2,600
<a href="#">LINDEN-SPE-7139</a>	2-FO-4-CU-S-377-T-525-GG-620	15.7	2 x SM	4 x #16	12,320
<a href="#">LINDEN-SPE-7276*</a>	2-FO-6-CU-X-358-O-398-FQ-628-YEL	16	2 x SM	4 x #18, 1 x #22 STP	3,200
<a href="#">LINDEN-SPE-7262*</a>	2-FO-6-CU-O-155-FQ-638-ORN	16.2	2 x SM (LT)	4 x #16, 2 x #24TP	5,000
<a href="#">LINDEN-SPE-7249*</a>	2-FO-5-CU-X-252-0282-FQ-674-ORN	17.11	2 x SM	4 x #16, 1 x #28 TP	3,200
<a href="#">LINDEN-SPE-7126</a>	2-FO-12-CU-T-535-FQ-709	18	2 x SM	2 x #14, 10 x #23 TP	3,600
<a href="#">LINDEN-SPE-7111*</a>	2-FO-3-CU-S-730	18.5	2 x SM(LT)	3 x #18	2,200
<a href="#">LINDEN-SPE-7252*</a>	2-FO-4-CU-M-496-O-536-FQ-800-ORN	20.3	2 x SM (LT)	4 x #18	2,300
<b>3 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7162*</a>	3-FO-1-CU-O-175-FQ-275	7	3 x SM	1 x #20 (TP)	1,600
<a href="#">LINDEN-SPE-7350</a>	3-FO-2-CU-O-164-L-275	7	3 x SM	2 x #24	450
<a href="#">LINDEN-SPE-7142*</a>	3-FO-2-CU-O-20-Q-367	9.3	3 x SM	2 x #14	1,500
<a href="#">LINDEN-SPE-7166</a>	3-FO-2-CU-O-325-Q-415-YEL	10.5	3 x SM	2 x #12	1,200
<a href="#">LINDEN-SPE-7160*</a>	3-FO-4-CU-O-322-FQ-475-Q-511-YEL	13	3 x SM	2 x #20	1,600
<a href="#">LINDEN-SPE-7395</a>	3-FO-3-CU-S-289-O-413-NN-443-B-540	13.7	3 x SM	3 x #20	14,000
<a href="#">LINDEN-SPE-7251</a>	3-FO-4-CU-O-585-Q-685	17.4	3 x SM	2 x #6, 2 x #9	3,500
<a href="#">LINDEN-SPE-7113</a>	3-FO-3-CU-O-630-DD-770	19.6	3 x SM	3 x #16	35,200
<a href="#">LINDEN-SPE-7237</a>	3-FO-7-CU-Q-590-O-760-Q-858-YEL	21.8	3 x SM	7 x #10	11,000
<a href="#">LINDEN-SPE-7231*</a>	3-FO-4-CU-O-764-FQ-923-BLK	23.4	3 x SM	3 x #11, 1 x #20 TP	15,500
<b>4 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7391*</a>	4-FO-2-CU-O-208-FQ-350	8.9	4 x SM (LT)	2 x #16	1,100
<a href="#">LINDEN-SPE-7167</a>	4-FO-2-CU-O-327-Q-417-YEL	10.6	4 x SM	2 x #12	1,200
<a href="#">LINDEN-SPE-7206</a>	4-SM-10-CU-Q-439	11.2	4 x SM	10 x #18	-
<a href="#">LINDEN-SPE-7392*</a>	4-FO-2-CU-O-230-FQ-450	11.4	4 x SM (LT)	2 x #14	1,100
<a href="#">LINDEN-SPE-7124*</a>	4-FO-4-CU-O-55-S-65-FQ-470	11.93	4 x SM (LT)	2 x #18, 2 x #22, 2 x #24	3,200
<a href="#">LINDEN-SPE-7163</a>	4-FO-4-CU-O-55-FQ-457-ORN	11.6	4 x SM (LT)	2 x #18, 2 x #22, 2 x #24	3,200
<a href="#">LINDEN-SPE-7199*</a>	4-FO-4-CU-O-55-S-65-FQ-470	11.93	4 x SM (LT)	2 x #18, 2 x #22, 1 x #24	3,200
<a href="#">LINDEN-SPE-7363</a>	4-FO-4-CU-O-55-S-65-S-460	11.96	4 x SM (LT)	2 x #18, 2 x #22, 1 x #24	3,200
<a href="#">LINDEN-SPE-7102</a>	4-FO-4-CU-O-155-DD-470	12.0	4 x SM	4 x #16	5,500
<a href="#">LINDEN-SPE-7261*</a>	4-FO-6-CU-O-55-S-65-FQ-480-ORN	12.2	4 x SM (LT)	2 x #18, 2 x #22, 2 x #24	3,200
<a href="#">LINDEN-SPE-7151*</a>	4-FO-4-CU-S-287-O-387-FQ-547	13.9	4 x SM	4 x #20	5,500
<a href="#">LINDEN-SPE-7143</a>	4-FO-4-CU-S-280-O-450-S-550	14.0	4 x SM	4 x #20	11,000
<a href="#">LINDEN-SPE-7330*</a>	4-FO-6-CU-O-55-S-70-FQ-600	15.25	4 x SM (2 x LT)	4 x #19, 1 x #24, 1 x #22	5,000
<a href="#">LINDEN-SPE-7325</a>	4-FO-6-CU-O-55-S-75-MM-590	15.0	4 x SM (2 x LT)	4 x #19, 1 x #24, 1 x #22	6,000
<a href="#">LINDEN-SPE-7303</a>	4-FO-7-CU-O-350-FQ-610-YEL	15.5	4 x SM (LT)	7 x #18	4,800
<a href="#">LINDEN-SPE-7219*</a>	4-FO-6-CU-O-55-S-75-FQ-590-ORN	15.0	4 x SM(LT)	4 x #18, 1 x #22, 1 x #24	6,000
<a href="#">LINDEN-SPE-7101</a>	4-FO-4-CU-O-175-Q-650	16.5	4 x SM	4 x #16	23,100
<a href="#">LINDEN-SPE-7108*</a>	4-FO-8-CU-O-155-Q-910	23.1	4 x SM	8 x #18	15,400
<b>5, 6, 8 &amp; 12 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7308</a>	5-FO-2-CU-Q-248	6.3	5 x SM	2 x #18	-
<a href="#">LINDEN-SPE-7250</a>	8-FO-4-CU-O-236-Q-332	8.43	8 x SM	4 x #16	450
<a href="#">LINDEN-SPE-7121</a>	12-FO-8-CU-Q-350	8.9	12 x SM	8 x #18	-
<a href="#">LINDEN-SPE-7255</a>	6-FO-6-CU-O-336-B-480-BLK	12.2	6 x SM	6 x #18	13,800
<a href="#">LINDEN-SPE-7348</a>	8-FO-2-CU-Q-223-O-583-Q-710	18.0	8 x SM (LT)	2 x #18	30,000
<a href="#">LINDEN-SPE-7349</a>	8-FO-2-CU-Z-786-S-930	23.6	8 x SM (LT)	2 x #6	21,500
<b>Singlemode (SM) &amp; Multimode (MM)</b>					
<a href="#">LINDEN-SPE-7333</a>	8-FO-4-CU-O-238-L-332	8.43	8 x MM	4 x #16	450
<a href="#">LINDEN-SPE-7295</a>	2-FO-3-CU-O-266-Q-326-ORN	8.3	2 x MM	3 x #18	250
<a href="#">LINDEN-SPE-7332</a>	8-FO-4-CU-Q-472-O-531-Q-610	15.5	4 x SM & 4 x MM	4 x #28	3,400
<a href="#">LINDEN-SPE-7127</a>	4-FO-6-CU-Q-410-Q-760	19.3	3xSM & 1xMM	6 x #20	15,400
<a href="#">LINDEN-SPE-7112*</a>	4-FO-4-CU-S-1210	30.7	2xSM + 2xMM	4 x #15	3,934

\*Denotes Buoyant Design

MANY MORE DESIGNS AVAILABLE – CONTACT US



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