

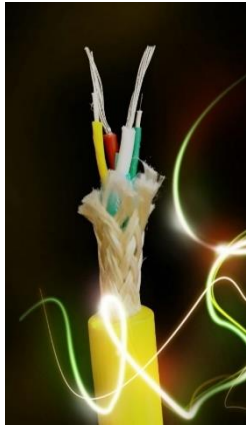
A sunset over the ocean with a green graphic overlay. The sky transitions from a deep purple at the top to a bright orange near the horizon. The ocean is dark blue with small whitecaps. A green graphic, consisting of several overlapping lines forming a triangular shape, is positioned on the right side of the image, pointing towards the center.

Hybrid Cables

Rugged & Durable

Buoyant

Thin & Lightweight



Hybrid Cables

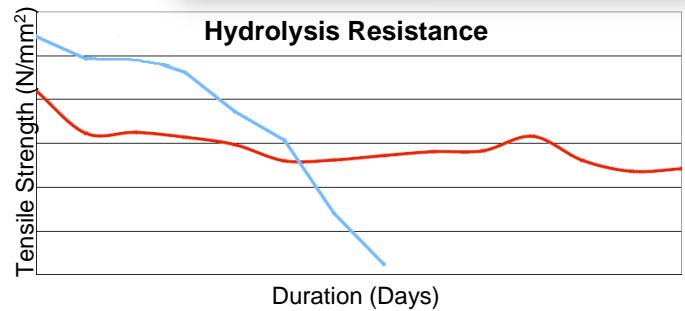
Linden Photonics hybrid cables integrate copper and fiber in a lightweight, robust design. Customizable in size, buoyancy, and strength, options range from neutrally buoyant to ultra-thin cables with various conductors and fiber types. Patented jacket construction ensures fiber protection in harsh subsea environments. Compact, rugged, flexible, and strong, Linden’s hybrid cables deliver reliable performance.

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)
1 x Singlemode (SM)					
LINDEN-SPE-7136	1-FO-2-CU-BB-120-22759	3	1 x SM	2 x #22	N/A
LINDEN-SPE-7373	1-FO-6-CU-O-11-Q-135	3.2	1 x SM	6 x #26	450
LINDEN-SPE-7148*	1-FO-2-CU-O-10-FQ-146-YEL	3.7	1 x SM	2 x #28	450
LINDEN-SPE-7149*	1-FO-2-CU-O-10-FQ-192-YEL	4.9	1 x SM	2 x #24	450
LINDEN-SPE-7218*	1-FO-2-CU-O-10-FQ-192-YEL-95A	4.9	1 x SM	2 x #24	450
LINDEN-SPE-7221*	1-FO-2-CU-O-10-FMM-192-YEL	4.9	1 x SM	2 x #24	450
LINDEN-SPE-7290	1-FO-2-CU-O-171-FQ-211	5.4	1 x SM	2 x #16	250
LINDEN-SPE-7170	1-FO-4-CU-S-138-O-168-L-228	5.8	1 x SM	4 x #22	450
LINDEN-SPE-7567*	1-FO-2-CU-O-151-FQ-240	6.1	1 x SM	2 x #22	1,600



Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
LINDEN-SPE-7104	1-FO-2-CU-O-155-Q-250	6.4	1 x SM	2 x #20	880
LINDEN-SPE-7161*	1-FO-3-CU-O-150-FQ-250	6.35	1 x SM	1 x #20 (TP) & #28	1,600
LINDEN-SPE-7195*	1-FO-2-CU-O-150-FQ-250	6.35	1 x SM	2 x #20	1,600
LINDEN-SPE-7326	1-FO-3-CU-O-150-FQ-250-NN-295	7.5	1 x SM	2 x #20 & 1 x #28 DW	1,600
LINDEN-SPE-7481	1-FO-8-CU-NN-200-O-205-Q-315	8.0	1 x SM	3 x #24 & 1 x #24 TP	300
LINDEN-SPE-7141*	1-FO-8-CU-O-235-FQ-323	8.2	1 x SM	8 x #26	1,500
LINDEN-SPE-7248*	1-FO-6-CU-O-197-FQ-338	8.6	1 x SM	2 x #20, 2 x #24 TP	200
LINDEN-SPE-7153*	1-FO-2-CU-O-263-FQ-362	9.2	1 x SM	2 x #20 TP	1,600
LINDEN-SPE-7558	1-FO-3-CU-T-320-Q-400	10.2	1 x SM	2 x #14 + 1 x #14 DW	800
LINDEN-SPE-7128*	1-FO-2-CU-O-312-FQ-412	10.5	1 x SM	2 TP x #22	5,000
LINDEN-SPE-7386*	1-FO-2-CU-X-288O-288-FQ-434	11.0	1 x SM	2 x #17 & 1 x #26 DW	1,200
LINDEN-SPE-7131*	1-FO-5-CU-O-260-FQ-460	11.7	1 x SM	5 x #18	1,100
LINDEN-SPE-7570*	1-FO-4-CU-O-186-FQ-440-Q-480	12.2	1 x SM	1 x #16 TP + 1 x 24 TP	300
LINDEN-SPE-7110*	1-FO-3-CU-Q-328-R-500	13	1 x SM	3 x #16	450
LINDEN-SPE-7526	1-FO-2-CU-O-225-FQ-540	13.7	1 x SM	2 x #13	1,466
LINDEN-SPE-7480	1-FO-12-CU-O-287-FQ-550	14	1 x SM	12 x #22	1,000
LINDEN-SPE-7194*	1-FO-2-CU-O-420-FQ-1036	26.3	1 x SM	2 x #8	1,250
2 x Singlemode (SM)					
LINDEN-SPE-7536	2-FO-5-CU-O-115-Q-135	3.4	2 x SM	5 x #26	450
LINDEN-SPE-7568	2-FO-2-CU-O-116-J-156	4.0	2 x SM	2 x #22	675
LINDEN-SPE-7277	2-FO-2-CU-O-171-FQ-211	5.4	2 x SM	2 x #16	250
LINDEN-SPE-7152*	2-FO-2-CU-O-155-Q-215	5.5	2 x SM	2 x #24	2,100
LINDEN-SPE-7345	2-FO-2-CU-O-197-OO-260	5.5	2 x SM (LT)	2 x #16	2,400
LINDEN-SPE-7107*	2-FO-2-CU-O-155-Q-235	6	2 x SM	2 x #24	2,100
LINDEN-SPE-7311	2-FO-3-CU-O-173-Q-252	6.4	2 x SM	3 x #20	250
LINDEN-SPE-7572	2-FO-2-CU-O-164-L-275	7.0	2 x SM	2 x #24	450
LINDEN-SPE-7189*	2-FO-2-CU-O-150-FQ-278	7.1	2 x SM	1 x #20 TP & 1 x #28 DW	1,600
LINDEN-SPE-7327	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
LINDEN-SPE-7120	2-FO-3-CU-O-280-Q-320	8.1	2 x SM	3 x #22	5,500
LINDEN-SPE-7138*	2-FO-2-CU-O-225-FQ-330	8.4	2 x SM	2 x #18	1,000
LINDEN-SPE-7164	2-FO-2-CU-O-207-Q-337	8.6	2 x SM	2 x #20	2,400
LINDEN-SPE-7512*	2-FO-2-CU-NN-138-O-158-X-223-FQ-352	9.0	2 x SM (LT)	2 x #22	700
LINDEN-SPE-7177	2-FO-5-CU-O-246-Q-366	9.3	2 x SM (LT)	4 x #18 & 1 x #24 STP	1,760
LINDEN-SPE-7122	2-FO-2-CU-O-155-Q-390	9.9	2 x SM	2 x #16	2,200
LINDEN-SPE-7355	2-FO-2-CU-Q-138-O-320-B-390	9.9	2 x SM (LT)	2 x #24	16,000
LINDEN-SPE-7123	2-FO-2-CU-T-320-Q-400	10.2	2 x SM	2 x #14	800
LINDEN-SPE-7468	2-FO-3-CU-O-388-FQ-400	10.2	2 x SM (LT)	2 x #16 & 2 x #18	1,000
LINDEN-SPE-7103	2-FO-2-CU-O-155-Q-420	10.7	2 x SM	4 x #13	1,300
LINDEN-SPE-7469*	2-FO-3-CU-O-388-FQ-400-S-430	10.9	2 x SM (LT)	2 x #16 & 1 x #18	1,000
LINDEN-SPE-7293	2-FO-2-CU-O-388-Q-448	11.4	2 x SM	2 x #12	4,000
LINDEN-SPE-7462	2-FO-6-CU-O-352-Q-452	11.5	2 x SM (LT)	6 x #18	10,000
LINDEN-SPE-7227	2-FO-6-CU-X-297-O-327-DD-470-ORN	12	2 x SM	4 x #16, 2 x #24 TP	5,000
LINDEN-SPE-7500*	2-FO-5-CU-O-217-FQ-442-Q-472	12	2 x SM LT	4 x 20, 1 x 28 D & 1 x 28 S	1,600
LINDEN-SPE-7313	2-FO-2-CU-Q-138-O-320-B-475	12.1	2 x SM	2 x #14	800
LINDEN-SPE-7178*	2-FO-5-CU-O-246-M-405-Q-484	12.3	2 x SM LT	4 x #18, #24STP	1,760
LINDEN-SPE-7100*	2-FO-2-CU-O-155-Q-500	12.7	2 x SM	2 x #14	2,100
LINDEN-SPE-7291	2-FO-2-CU-NN-216-Z-422-S-530	13.5	2 x SM	2 x #16	12,000
LINDEN-SPE-7241*	2-FO-4-CU-O-55-S-65-FQ-535-ORN	13.6	2 x SM	4 x #16	3,200
LINDEN-SPE-7106*	2-FO-4-CU-O-155-Q-550	13.9	2 x SM	4 x #20	1,573
LINDEN-SPE-7109	2-FO-5-CU-O-155-Q-550	13.9	2 x SM	5 x #16	15,400
LINDEN-SPE-7222	2-FO-4-CU-S-280-O-450-S-550	14	2 x SM	4 x #20	11,000
LINDEN-SPE-7292	2-FO-2-CU-JJ-415-Q-550	14	2 x SM	2 x #16	29,000
LINDEN-SPE-7125*	2-FO-2-CU-Q-557	14.1	2 x SM	2 x #16	1,200
LINDEN-SPE-7465*	1-FO-6-CU-O-273-FQ-530	14.6	2 x SM	6 x #18	2,000
LINDEN-SPE-7228*	2-FO-2-CU-365-FQ-585-YEL	14.9	2 x SM	2 x #16	2,200
LINDEN-SPE-7354	2-FO-5-CU-Q-322-T-500-B-600	15.25	2 x SM (LT)	5 x #16	14,000
LINDEN-SPE-7501*	2-FO-4-CU-NN-332-O-344-FQ-650	16.5	2 x SM	4 x #14	1,250
LINDEN-SPE-7233*	2-FO-2-CU-O-397-FQ-617-YEL	15.7	2 x SM	2 x #16	2,600
LINDEN-SPE-7139	2-FO-4-CU-S-377-T-525-GG-620	15.7	2 x SM	4 x #16	12,320
LINDEN-SPE-7276*	2-FO-6-CU-X-358-O-398-FQ-628-YEL	16	2 x SM	4 x #18, 1 x #22 STP	3,200



Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
LINDEN-SPE-7262*	2-FO-6-CU-O-155-FQ-638-ORN	16.2	2 x SM (LT)	4 x #16, 2 x #24TP	5,000
LINDEN-SPE-7249*	2-FO-5-CU-X-252-0282-FQ-674-ORN	17.11	2 x SM	4 x #16, 1 x #28 TP	3,200
LINDEN-SPE-7126	2-FO-12-CU-T-535-FQ-709	18	2 x SM	2 x #14, 10 x #23 TP	3,600
LINDEN-SPE-7111*	2-FO-3-CU-S-730	18.5	2 x SM (LT)	3 x #18	2,200
LINDEN-SPE-7252*	2-FO-4-CU-M-496-O-536-FQ-800-ORN	20.3	2 x SM (LT)	4 x #18	2,300
3 x Singlemode (SM)					
LINDEN-SPE-7162*	3-FO-1-CU-O-175-FQ-275	7.0	3 x SM	1 x #20 (TP)	1,600
LINDEN-SPE-7350	3-FO-2-CU-O-164-L-275	7.0	3 x SM	2 x #24	450
LINDEN-SPE-7142*	3-FO-2-CU-O-20-Q-367	9.3	3 x SM	2 x #14	1,500
LINDEN-SPE-7166	3-FO-2-CU-O-325-Q-415-YEL	10.5	3 x SM	2 x #12	1,200
LINDEN-SPE-7160*	3-FO-4-CU-O-322-FQ-475-Q-511-YEL	13	3 x SM	2 x #20	1,600
LINDEN-SPE-7395	3-FO-3-CU-S-289-O-413-NN-443-B-540	13.7	3 x SM	3 x #20	14,000
LINDEN-SPE-7251	3-FO-4-CU-O-585-Q-685	17.4	3 x SM	2 x #6, 2 x #9	3,500
LINDEN-SPE-7113	3-FO-3-CU-O-630-DD-770	19.6	3 x SM	3 x #16	35,200
LINDEN-SPE-7237	3-FO-7-CU-Q-590-O-760-Q-858-YEL	21.8	3 x SM	7 x #10	11,000
LINDEN-SPE-7231*	3-FO-4-CU-O-764-FQ-923-BLK	23.4	3 x SM	3 x #11, 1 x #20 TP	15,500
4 x Singlemode (SM)					
LINDEN-SPE-7466	1-FO-3-CU-PP-O-250-Q-310	7.9	4 x SM (LT)	3 x #14 & Coax	750
LINDEN-SPE-7391*	4-FO-2-CU-O-208-FQ-350	8.9	4 x SM (LT)	2 x #16	1,100
LINDEN-SPE-7514*	4-FO-6-CU-O-207-FQ-352	9.0	4 x SM (LT)	4 x #24 + 2 x #30	1,540
LINDEN-SPE-7539*	4-FO-4-CU-O-218-L-325-Q-375	9.5	4 x SM (LT)	2 x #20 + 1 x #28 TP	1,100
LINDEN-SPE-7507*	1-FO-5-CU-O-230-FQ-390	9.9	4 x SM (LT)	4 x #20	1,100
LINDEN-SPE-7529	4-FO-10-CU-O-261-X-361-Q-411	10.5	4 x SM (LT)	10 x #22	2,500
LINDEN-SPE-7167	4-FO-2-CU-O-327-Q-417-YEL	10.6	4 x SM	2 x #12	1,200
LINDEN-SPE-7206	4-SM-10-CU-Q-439	11.2	4 x SM	10 x #18	-
LINDEN-SPE-7392*	4-FO-2-CU-O-230-FQ-450	11.4	4 x SM (LT)	2 x #14	1,100
LINDEN-SPE-7522	4-FO-5-CU-O-371-Q-451	11.5	4 x SM (LT)	3 x #10 + 1 x #12	250
LINDEN-SPE-7163	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
LINDEN-SPE-7124*	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
LINDEN-SPE-7199*	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
LINDEN-SPE-7363	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
LINDEN-SPE-7102	4-FO-4-CU-O-155-DD-470	12.0	4 x SM	4 x #16	5,500
LINDEN-SPE-7261*	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
LINDEN-SPE-7151*	4-FO-4-CU-S-287-O-387-FQ-547	13.9	4 x SM	4 x #20	5,500
LINDEN-SPE-7143	4-FO-4-CU-S-280-O-450-S-550	14.0	4 x SM	4 x #20	11,000
LINDEN-SPE-7330*	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
LINDEN-SPE-7325	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
LINDEN-SPE-7303	4-FO-7-CU-O-350-FQ-610-YEL	15.5	4 x SM (LT)	7 x #18	4,800
LINDEN-SPE-7219*	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
LINDEN-SPE-7101	4-FO-4-CU-O-175-Q-650	16.5	4 x SM	4 x #16	23,100
LINDEN-SPE-7516	4-FO-7-CU-S-344-O-383-FQ-570-Q-650	16.5	4 x SM (LT)	6 x #24 + 1 x #24 STP	4,500
LINDEN-SPE-7108*	4-FO-8-CU-O-155-Q-910	23.1	4 x SM	8 x #18	15,400
LINDEN-SPE-7471	4-FO-4-CU-S-787-W-890-S-1023	26	4 x SM	4 x #4	25,800
5 or more x Singlemode (SM)					
LINDEN-SPE-7308	5-FO-2-CU-Q-248	6.3	5 x SM	2 x #18	-
LINDEN-SPE-7250	8-FO-4-CU-O-236-Q-332	8.43	8 x SM	4 x #16	450
LINDEN-SPE-7121	12-FO-8-CU-Q-350	8.9	12 x SM	8 x #18	-
LINDEN-SPE-7515	24-FO-5-CU-NN-274-Q-374	9.5	24 x SM	4 x #20 + 1 x #24 TP	1,600
LINDEN-SPE-7255	6-FO-6-CU-O-336-B-480-BLK	12.2	6 x SM	6 x #18	13,800
LINDEN-SPE-7348	8-FO-2-CU-Q-223-O-583-Q-710	18.0	8 x SM (LT)	2 x #18	30,000
LINDEN-SPE-7349	8-FO-2-CU-Z-786-S-930	23.6	8 x SM (LT)	2 x #6	21,500
Singlemode (SM) & Multimode (MM)					
LINDEN-SPE-7533	4-FO-3-CU-PP-O-252-Q-320	8.1	4 x MM (LT)	3 x #14	750
LINDEN-SPE-7333	8-FO-4-CU-O-238-L-332	8.43	8 x MM (LT)	4 x #16	450
LINDEN-SPE-7295	2-FO-3-CU-O-266-Q-326-ORN	8.3	2 x MM	3 x #18	250
LINDEN-SPE-7531	3-FO-3-CU-PP-O-252-Q-354	9.0	3 x MM	3 x #14	750
LINDEN-SPE-7532*	4-FO-4-CU-P-255-O-274-FQ-377-Q-535	13.6	2 x SM + 2 x MM		
LINDEN-SPE-7332	8-FO-4-CU-Q-472-O-531-Q-610	15.5	4 x SM & 4 x MM	4 x #28	3,400
LINDEN-SPE-7127	4-FO-6-CU-Q-410-Q-760	19.3	3xSM & 1xMM	6 x #20	15,400
LINDEN-SPE-7112*	4-FO-4-CU-S-1210	30.7	2xSM + 2xMM	4 x #15	3,934

*Denotes Buoyant Design



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