

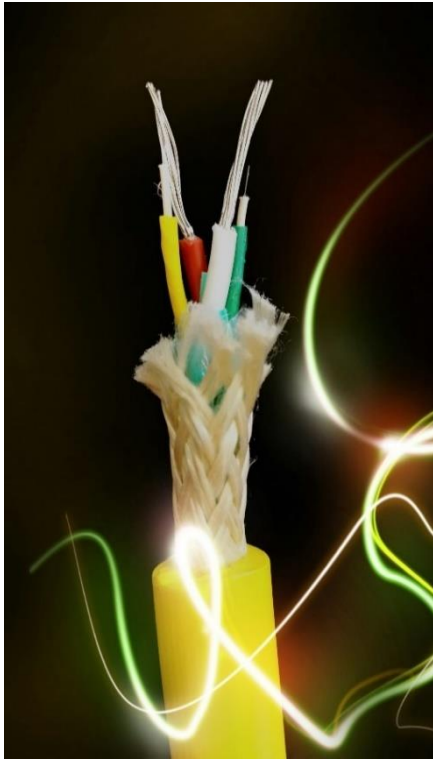


*Hybrid Cables*

**Rugged & Durable**

**Buoyant**

**Thin & Lightweight**



## Hybrid Cables

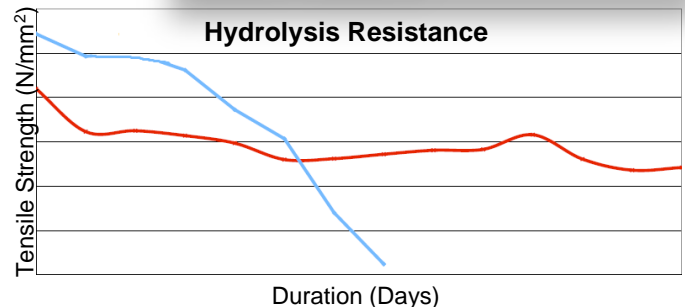
Linden Photonics **hybrid cables** combine copper and fiber elements in a **lightweight**, yet strong and robust tether cable. Linden can customize your size, buoyancy and strength; from **neutrally buoyant** designs to extremely thin cables with various conductor offerings and fiber types available.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



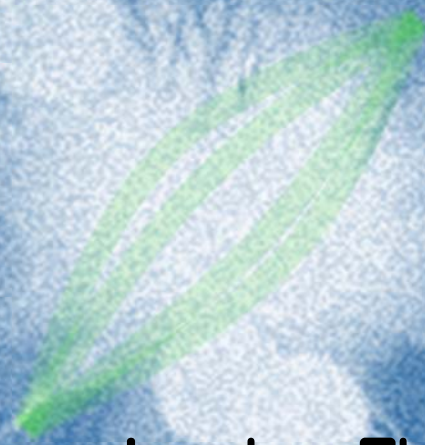
## Specifications

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-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	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-Q-211-YEL	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	6.4	1 x SM	1 x #20 (TP) + #28	1,600
<a href="#">LINDEN-SPE-7195*</a>	1-FO-2-CU-O-150-FQ-250	6.4	1 x SM	2 x #20	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 #24	1,600
<a href="#">LINDEN-SPE-7128*</a>	1-FO-2-CU-O-312-FQ-412	11	1 x SM	2 x #22	5,000
<a href="#">LINDEN-SPE-7131*</a>	1-FO-5-CU-O-260-FQ-460	12	1 x SM	5 x #18	1,100
<a href="#">LINDEN-SPE-7227</a>	2-FO-6-CU-O-155-DD-470-ORN	12	2 x SM	4 x #16, 2 x #24 TP	5,000
<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	1 x SM	2 x #8	1,250
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
<b>2 x Singlemode (SM)</b>					
<a href="#">LINDEN-SPE-7152*</a>	2-FO-2-CU-O-155-Q-195	5	2 x SM	2 x #24	2,100
<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-7107*</a>	2-FO-2-CU-O-155-Q-235	6	2 x SM	2 x #24	2,100
<a href="#">LINDEN-SPE-7189*</a>	2-FO-2-CU-O-150-FQ-278	7.1	2 x SM	2 x #20	1,600
<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-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-4-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-O-155-DD-470-ORN	12	2 x SM	4 x #16, 2 x #24 TP	5,000
<a href="#">LINDEN-SPE-7313</a>	2-FO-6-CU-O-155-DD-470-ORN	12	2 x SM	4 x #16, 2 x #24 TP	5,000
<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	13.6	2 x SM	4 x #16	3,200
<a href="#">LINDEN-SPE-7249*</a>	2-FO-5-CU-O-55-S-65-FQ-535	13.6	2 x SM	4 x #16, 1 x #28 TP	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-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-O-365-FQ-585	14.1	2 x SM	2 x #16	1,200



<a href="#">LINDEN-SPE-7233*</a>	2-FO-2-CU-O-397-FQ-617	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-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-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	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
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
3 x Singlemode (SM)					
<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-7142*</a>	3-FO-2-CU-O-20-Q-367	9.3	3 x SM	2 x #14	1,500
<a href="#">LINDEN-SPE-7160*</a>	3-FO-2-CU-O-263-FQ-393	10	3 x SM	2 x #20	1,600
<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-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-7237</a>	3-FO-7-CU-O-760-Q-858	17.8	3 x SM	7 x #10	1,200
<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-7231*</a>	3-FO-4-CU-O-764-FQ-923	23.4	3 x SM	2 x #11, 1 x #20 TP	15,500
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
4 x Singlemode (SM)					
<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-FO-10-CU-Q-439	11.2	4 x SM	10 x #18	-
<a href="#">LINDEN-SPE-7124*</a>	4-FO-4-CU-O-55-FQ-454	11.5	4 x SM LT	2 x #18	3,200
<a href="#">LINDEN-SPE-7163</a>	4-FO-4-CU-O-55-S-65-Q-457	11.6	4 x SM	2 x #18, 2 x #22	3,200
<a href="#">LINDEN-SPE-7199*</a>	4-FO-4-CU-O-55-S-65-FQ-470	11.9	4 x SM	2 x #18	3,200
<a href="#">LINDEN-SPE-7102</a>	4-FO-4-CU-O-155-DD-470	11.9	4 x SM	4 x #16	5,500
<a href="#">LINDEN-SPE-7261*</a>	4-FO-6-CU-O-55-S-65-FQ-480	12	4 x SM (LT)	2 x #18	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	4 x SM	4 x #20	11,000
<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-113-S-133-FQ-625	15.9	4 x SM	4 x #18, 1 x #22, 1 x #24	6,000
<a href="#">LINDEN-SPE-7276*</a>	2-FO-6-CU-X-358-O-398-FQ-628-YEL	16	4 x SM	4 x #18, 1 x #22 STP	3,200
<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
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
5, 6, 8 & 12 x Singlemode (SM)					
<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-285	7.2	8 x SM	4 x #20	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
Spec No.	Part No.	OD (mm)	Fiber Type	Conductor	UTS (lbs)
Singlemode (SM) & Multimode (MM)					
<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-7127</a>	4-FO-6-CU-Q-410-Q-760	19.3	3 x SM + 1 x MM	6 x #20	15,400
<a href="#">LINDEN-SPE-7112*</a>	4-FO-4-CU-S-1210	30.7	2 x SM + 2 x MM	4 x #15	3,934

\*Denotes Buoyant Design



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