



WINDMAX



BruntonShaw
STRENGTH IN SERVICE

**ROPES FOR
THE OFFSHORE WIND MARKET**

LUBRICATION RETENTION SYSTEM

Brunton Shaw is on the front of designing and producing high-performing wire ropes with a low ecological footprint, while in service. As a result, our company designed and developed an environmentally-friendly, but high performing system to minimize appearance of internal corrosion and unnecessary lubrication leakage during wire rope usage.

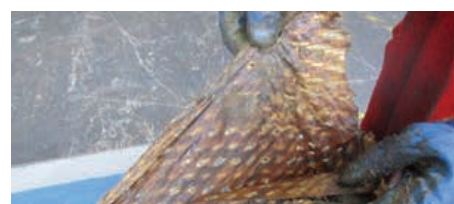
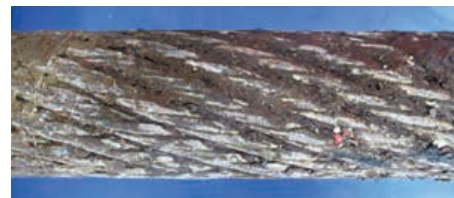
Our “lubrication retention system” is composed by an extremely thin synthetic membrane which is laid between the rope core and the outer layer. This system creates a barrier against grease bleeding from the core, thus drastically reducing the wash out effect due to water and humidity interaction and protecting the rope from corrosion.

This membrane is extremely resistant against temperature and wear and does not create filaments or contamination on the rope surface.

Moreover, due to its minimal thickness, the risk of microplastics discharge in the environment is negligible.

Our lubrication retention system has been successfully used for various years and has been proven to be extremely effective: even after many years of utilization, further expanding upon the sustainable life of our wire ropes.

For further details, please contact our technical department tech@gdcropes.com.



*Wire rope production and rope sample after retirement
(complete rope, rope core and retention system)*

WINDMAX ROPES FOR THE OFFSHORE WIND MARKET

Our range of Windmax wire ropes are the innovative solution for the renewables and offshore wind markets.

These ropes are designed and manufactured in close concurrence with our customer base and with a green footprint aiming to further reduce the environmental impact during usage.

Our Windmax wire ropes are available in various constructions, destined for the application at hand. Our non-rotational constructions focus on optimized stability through enhanced rotational properties. Our range of multistrand ropes are designed for ultimate endurance, even under the hardest circumstances.

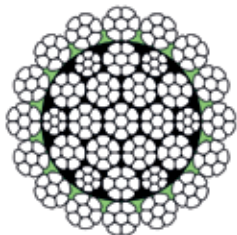
All our ropes are composed by low tensile, heavily compacted strands, which have proven to be superior in terms of crushing resistance and spooling capability.

Our range of Windmax wire ropes can be lubricated with EAL grease or VGP grease, both being environmental-friendly and compatible with other products for re-lubrication purposes.

A unique feature within our complete range of Windmax wire ropes is our lubrication retention system, specifically developed for the purpose of environmental protection. This system provides an extra barrier against lubricant bleeding and wash out. On demand, the lubricant media can be differentiated in order to have an internal core compound and an external "anti-grip" effect.

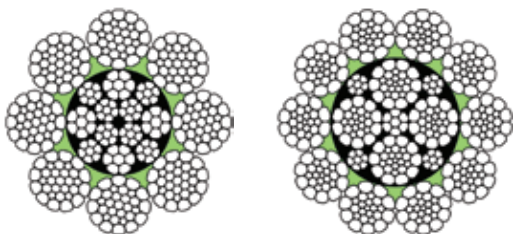


Nominal Diameter		Mass				Minimum Breaking			Minimum Breaking		
		Metric		Imperial		Force			Load		
		Air	Water	Air	Water	1770	1960	2160	1770	1960	2160
mm	Inches	kg/m	kg/m	lb/ft	lb/ft	kN	kN	kN	Tonnes	Tonnes	Tonnes
40		7.84	6.66	5.28	4.49	1380	1490	1590	141	152	162
41	1 ⁵ / ₈	8.35	7.10	5.62	4.78	1460	1580	1670	149	161	170
42		8.64	7.35	5.82	4.95	1520	1640	1730	155	167	176
44		9.49	8.06	6.39	5.43	1670	1800	1900	170	183	194
	1 ³ / ₄	9.68	8.23	6.52	5.54	1700	1840	1920	173	188	196
46		10.4	8.81	6.98	5.93	1820	1970	2050	186	201	209
48	1 ⁷ / ₈	11.3	9.60	7.60	6.46	1980	2140	2230	202	218	227
50		12.3	10.4	8.25	7.01	2160	2330	2400	220	238	245
	2	12.6	10.7	8.51	7.24	2220	2400	2480	226	245	253
52		13.2	11.3	8.92	7.58	2320	2510	2570	236	256	262
54	2 ¹ / ₈	14.3	12.1	9.62	8.18	2510	2710	2770	256	276	282
56		15.4	13.1	10.3	8.79	2700	2920	2980	275	298	304
58	2 ¹ / ₄	16.5	14.0	11.1	9.43	2900	3130	3200	296	319	326
60	2 ³ / ₈	17.8	15.2	12.0	10.2	3130	3380		319	345	
62		18.8	16.0	12.7	10.8	3310	3570		337	364	
64	2 ¹ / ₂	20.1	17.1	13.5	11.5	3520	3810		359	388	
66		21.3	18.1	14.4	12.2	3750	4050		382	413	
	2 ⁵ / ₈	21.8	18.5	14.7	12.5	3820	4130		389	421	
68		22.7	19.3	15.3	13.0	3980	4300		406	438	
70	2 ³ / ₄	24.0	20.4	16.2	13.7	4210	4560		429	465	
72		25.4	21.6	17.1	14.5	4460	4820		455	491	
73	2 ⁷ / ₈	26.1	22.2	17.6	15.0	4590	4960		468	506	
74		26.8	22.8	18.1	15.4	4710	5090		480	519	
76		28.3	24.1	19.1	16.2	4970	5370		507	547	
	3	28.5	24.2	19.2	16.3	4990	5400		509	550	
77		29.1	24.7	19.6	16.6	5100	5510		520	562	
80	3 ¹ / ₈	31.4	26.7	21.1	17.9	5500	5950		561	607	
82	3 ¹ / ₄	33.4	28.4	22.5	19.1	5860	6270		597	639	
84		34.6	29.4	23.3	19.8	6070	6490		619	662	
86	3 ³ / ₈	36.2	30.8	24.4	20.7	6360	6800		648	693	
88		37.9	32.3	25.5	21.7	6660	7050		679	719	
90	3 ¹ / ₂	39.7	33.7	26.7	22.7	6970	7290		710	743	
92	3 ⁵ / ₈	41.5	35.3	28.0	23.8	7290	7630		743	778	
94		43.3	36.8	29.2	24.8	7600	7860		775	801	
95	3 ³ / ₄	44.5	37.8	29.9	25.4	7800	7980		795	813	
96		45.2	38.4	30.4	25.8	7930	8110		808	827	



- Rotation resistant rope with extreme structural stability
- Lubricated with VGP compliant or biodegradable grease
- Equipped with lubrication retention system to prevent grease bleeding and wash out

Nominal Diameter		Mass				Minimum Breaking			Minimum Breaking		
		Metric		Imperial		Force			Load		
		Air	Water	Air	Water	1770	1960	2160	1770	1960	2160
mm	Inches	kg/m	kg/m	lb/ft	lb/ft	kN	kN	kN	Tonnes	Tonnes	Tonnes
40		7.4	6.26	4.96	4.21	1313	1410	1500	134	144	153
41	1 ⁵ / ₈	7.8	6.66	5.28	4.48	1396	1500	1600	142	153	163
42		8.1	6.90	5.46	4.64	1443	1550	1660	147	158	169
44		8.9	7.57	6.00	5.10	1582	1700	1820	161	173	186
46	1 ³ / ₄	9.1	7.73	6.12	5.20	1620	1740	1860	165	177	190
48		9.7	8.27	6.55	5.57	1731	1860	1990	176	190	203
48	1 ⁷ / ₈	10.6	9.01	7.14	6.07	1890	2030	2140	193	207	218
50		11.5	9.78	7.74	6.58	2048	2200	2330	209	224	238
	2	11.9	10.1	7.99	6.79	2113	2270	2400	215	231	245
52		12.4	10.6	8.37	7.12	2215	2380	2510	226	243	256
54	2 ¹ / ₈	13.4	11.4	9.03	7.68	2392	2570	2710	244	262	276
56		14.4	12.3	9.71	8.26	2569	2760	2890	262	281	295
58	2 ¹ / ₄	15.5	13.2	10.4	8.86	2755	2960	3090	281	302	315
60	2 ³ / ₈	16.7	14.2	11.3	9.58	2979	3200	3350	304	326	341
62		17.7	15.0	11.9	10.1	3146	3380	3540	321	345	361
64	2 ¹ / ₂	18.8	16.0	12.7	10.8	3351	3600	3770	342	367	384
66		20.0	17.0	13.5	11.5	3565	3830	4010	363	390	409
	2 ⁵ / ₈	20.4	17.4	13.8	11.7	3640	3910	4050	371	399	413
68		21.3	18.1	14.3	12.2	3789	4070	4210	386	415	429
70	2 ³ / ₄	22.5	19.2	15.2	12.9	4012	4310	4460	409	439	455
72		23.8	20.3	16.1	13.6	4245	4560	4720	433	465	481
73	2 ⁷ / ₈	24.5	20.9	16.5	14.0	4366	4690	4800	445	478	489
74		25.2	21.4	17.0	14.4	4487	4820	4930	457	491	503
76		26.6	22.6	17.9	15.2	4729	5080	5200	482	518	530
	3	26.7	22.7	18.0	15.3	4757	5110	5230	485	521	533
77		27.3	23.2	18.4	15.6	4915	5280		501	538	
80	3 ¹ / ₈	29.4	25.0	19.8	16.8	5306	5700		541	581	
82	3 ¹ / ₄	31.3	26.6	21.1	17.9	5520	5930		563	604	
84		32.5	27.6	21.9	18.6	5720	6140		583	626	
86	3 ³ / ₈	34.0	28.9	22.9	19.5	5990	6360		611	648	
88		35.6	30.3	24.0	20.4	6270	6580		639	671	
90	3 ¹ / ₂	37.3	31.7	25.1	21.3	6560	6890		669	702	
92	3 ⁵ / ₈	39.0	33.1	26.3	22.3	6870	7210		700	735	
94		40.6	34.5	27.4	23.3	7160	7420		730	756	
95	3 ³ / ₄	41.7	35.5	28.1	23.9	7350	7620		749	777	
96		42.4	36.0	28.5	24.3	7460	7650		760	780	



- Multistrand rope with excellent spooling capabilities
- Lubricated with VGP compliant or biodegradable grease
- Equipped with lubrication retention system to prevent grease bleeding and wash out

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