

# FibreMax Carbon Cables

Carbon fibres are used in a wide variety of applications in industry because of their weight advantages and greater rigidity and strength. Already present in aeronautics, space industries, sports and automotive, carbon fibres can play a role in civil and structural engineering and also in offshore.

FibreMax cables made with Carbon T-700 are as strong as steel-wire ropes, polyester or nylon ropes, but offer remarkably smaller diameters and significant less weight (when compared at the same MBL). This increased strength and weight reduction offers major advantages in terms of easier handling, increasing safety, faster operations and downsizing of constructions.

## Specifications:

- Made with Carbon T-700
- Excellent strength-to-weight ratio
- Specific density approx. 1,76
- Tensile strength 4900 MPa
- E-modulus 230 GPa
- Zero creep
- Maximum EA at 5% MBL
- Excellent fatigue life
- Very low elongation
- Good chemical resistance
- Long continuous lengths
- Lifespan up to 40 years
- Applications:
  - Bridge stay cables
  - Structural engineering
  - Aviation/aerospace
  - Yacht rigging



**FIBRE**Max

All fibres used to the Max...

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FibreMax Carbon cable	MBL Tonne	Diameter mm	Weight		EA MN	Stretch mm/m/1000kg
			in air kg/meter	submerged kg/meter		
FM-C50	50	19,35	0,46	0,34	33	0,30556
FM-C100	100	26,74	0,78	0,57	65	0,15278
FM-C150	150	32,45	1,10	0,80	98	0,10185
FM-C200	200	37,30	1,44	1,05	131	0,07639
FM-C250	250	41,60	1,78	1,30	164	0,06111
FM-C300	300	45,50	2,12	1,55	196	0,05093
FM-C350	350	49,11	2,46	1,80	229	0,04365
FM-C400	400	52,48	2,80	2,04	262	0,03819
FM-C450	450	55,66	3,14	2,29	295	0,03395
FM-C500	500	58,67	3,48	2,54	327	0,03056
FM-C550	550	61,55	3,82	2,79	360	0,02778
FM-C600	600	64,31	4,16	3,04	393	0,02546
FM-C650	650	66,96	4,50	3,29	425	0,02350
FM-C700	700	69,53	4,84	3,53	458	0,02183
FM-C750	750	72,00	5,18	3,78	491	0,02037
FM-C800	800	74,41	5,52	4,03	524	0,01910
FM-C850	850	76,75	5,86	4,28	556	0,01797
FM-C900	900	79,02	6,20	4,53	589	0,01698
FM-C950	950	81,24	6,54	4,77	622	0,01608
FM-C1000	1000	83,40	6,88	5,02	655	0,01528
FM-C1250	1250	92,76	8,50	6,21	818	0,01222
FM-C1500	1500	101,24	10,12	7,39	982	0,01019
FM-C1750	1750	109,06	11,74	8,57	1145	0,00873
FM-C2000	2000	116,35	13,36	9,75	1309	0,00764
FM-C2250	2250	123,20	14,98	10,94	1473	0,00679
FM-C2500	2500	129,70	16,60	12,12	1636	0,00611
FM-C2750	2750	135,89	18,22	13,30	1800	0,00556
FM-C3000	3000	141,81	19,84	14,48	1964	0,00509
FM-C3250	3250	147,50	21,46	15,67	2127	0,00470
FM-C3500	3500	152,98	23,08	16,85	2291	0,00437
FM-C3750	3750	158,27	24,70	18,03	2455	0,00407
FM-C4000	4000	163,40	26,32	19,21	2618	0,00382
FM-C4250	4250	168,38	28,02	20,45	2782	0,00359
FM-C4500	4500	173,22	29,62	21,62	2945	0,00340
FM-C4750	4750	177,93	31,22	22,79	3109	0,00322
FM-C5000	5000	182,52	32,82	23,96	3273	0,00306
FM-C5250	5250	187,21	34,42	25,13	3436	0,00291
FM-C5500	5500	191,59	36,04	26,31	3600	0,00278
FM-C5750	5750	195,88	37,66	27,49	3764	0,00266
FM-C6000	6000	200,08	39,28	28,67	3927	0,00255
FM-C6250	6250	204,20	40,90	29,86	4091	0,00244
FM-C6500	6500	208,25	42,52	31,04	4255	0,00235
FM-C6750	6750	212,21	44,14	32,22	4418	0,00226
FM-C7000	7000	216,11	45,76	33,40	4582	0,00218
FM-C7250	7250	219,95	47,38	34,59	4745	0,00211
FM-C7500	7500	223,72	49,00	35,77	4909	0,00204
FM-C7750	7750	227,43	50,62	36,95	5073	0,00197
FM-C8000	8000	231,09	52,24	38,14	5236	0,00191
FM-C8250	8250	234,69	53,86	39,32	5400	0,00185
FM-C8500	8500	238,25	55,48	40,50	5564	0,00180
FM-C8750	8750	241,75	57,10	41,68	5727	0,00175
FM-C9000	9000	245,20	58,72	42,87	5891	0,00170
FM-C9250	9250	248,62	60,34	44,05	6055	0,00165
FM-C9500	9500	251,98	61,96	45,23	6218	0,00161
FM-C9750	9750	255,31	63,58	46,41	6382	0,00157
FM-C10000	10000	258,60	65,20	47,60	6545	0,00153

Submerged weight based on sea water density of 1,03 kg/m<sup>3</sup>. Weight, stretch and diameters can vary by specifications and tolerances. A safety factor must be determined by usage and requested lifespan. All FibreMax cables are supplied with end terminations and chafe protection. Please contact FibreMax for detailed information.

All information is subject to change without notice