

# FibreMax Aramid Cables

FibreMax aramid cables are made with Twaron®, which is a very strong fibre developed and produced exclusively by Teijin Aramid. It has a high modulus, is thermally stable, highly impact and chemical resistant.

The unique properties of Twaron® fibres used in FibreMax Aramid cables give these cables a number of significant advantages over steel-wire ropes, polyester or nylon ropes. When compared at the same MBL, FibreMax Aramid cables offer smaller diameters and less weight, resulting in major advantages in terms of easier handling, increasing safety, faster operations and downsizing of constructions.

## Specifications:

- Made with Twaron®
- Excellent strength-to-weight ratio
- Specific density approx. 1,45
- Tensile strength 2950 MPa
- E-modulus 108 GPa
- Low creep of 0,30%
- Maximum EA at 5% MBL
- Good fatigue life
- Low elongation
- Good chemical resistance
- Non-conductive
- Long continuous lengths
- Lifespan up to 40 years
- ABS/DNV certification and others possible
- Applications:
  - Deep sea mooring
  - Offshore and marine applications
  - Heavy lifting
  - Bridge stay cables
  - Structural engineering
  - Aviation/Aerospace
  - Guyed towers and antennas



**FIBRE**Max

All fibres used to the Max...

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FibreMax Aramid cable	MBL Tonne	Diameter mm	Weight		EA MN	Stretch mm/m/1000kg
			in air kg/meter	submerged kg/meter		
FM-A50	50	25,98	0,60	0,25	34	0,29630
FM-A100	100	36,11	1,13	0,47	68	0,14815
FM-A150	150	43,93	1,65	0,69	101	0,09877
FM-A200	200	50,56	2,17	0,91	135	0,07407
FM-A250	250	56,42	2,70	1,13	169	0,05926
FM-A300	300	58,10	2,86	1,20	178	0,05612
FM-A350	350	62,72	3,32	1,39	208	0,04810
FM-A400	400	67,02	3,78	1,59	238	0,04209
FM-A450	450	71,08	4,25	1,78	267	0,03741
FM-A500	500	74,93	4,71	1,98	297	0,03367
FM-A550	550	78,61	5,17	2,17	327	0,03061
FM-A600	600	82,12	5,64	2,37	356	0,02806
FM-A650	650	85,51	6,10	2,56	386	0,02590
FM-A700	700	88,77	6,56	2,76	416	0,02405
FM-A750	750	91,92	7,03	2,95	446	0,02245
FM-A800	800	94,98	7,49	3,15	475	0,02104
FM-A850	850	97,95	7,95	3,34	505	0,01981
FM-A900	900	100,84	8,42	3,53	535	0,01871
FM-A950	950	103,65	8,88	3,73	564	0,01772
FM-A1000	1000	106,40	9,34	3,92	594	0,01684
FM-A1250	1250	118,47	11,58	4,86	743	0,01347
FM-A1500	1500	129,41	13,81	5,80	891	0,01122
FM-A1750	1750	139,48	16,05	6,74	1040	0,00962
FM-A2000	2000	148,87	18,28	7,68	1188	0,00842
FM-A2250	2250	157,70	20,52	8,62	1337	0,00748
FM-A2500	2500	166,06	22,75	9,56	1485	0,00673
FM-A2750	2750	174,03	24,99	10,49	1634	0,00612
FM-A3000	3000	181,64	27,22	11,43	1782	0,00561
FM-A3250	3250	188,96	29,46	12,37	1931	0,00518
FM-A3500	3500	196,00	31,69	13,31	2079	0,00481
FM-A3750	3750	202,81	33,93	14,25	2228	0,00449
FM-A4000	4000	209,40	36,16	15,19	2376	0,00421
FM-A4250	4250	215,79	38,40	16,13	2525	0,00396
FM-A4500	4500	222,00	40,64	17,07	2673	0,00374
FM-A4750	4750	228,05	42,87	18,01	2822	0,00354
FM-A5000	5000	233,95	45,11	18,94	2970	0,00337
FM-A5250	5250	239,90	47,34	19,88	3119	0,00321
FM-A5500	5500	245,53	49,56	20,81	3267	0,00306
FM-A5750	5750	251,03	51,79	21,75	3416	0,00293
FM-A6000	6000	256,42	54,03	22,69	3564	0,00281
FM-A6250	6250	261,70	56,26	23,63	3713	0,00269
FM-A6500	6500	266,88	58,50	24,57	3861	0,00259
FM-A6750	6750	271,97	60,73	25,51	4010	0,00249
FM-A7000	7000	276,96	62,97	26,45	4158	0,00241
FM-A7250	7250	281,87	65,20	27,39	4307	0,00232
FM-A7500	7500	286,70	67,44	28,32	4455	0,00224
FM-A7750	7750	291,46	69,67	29,26	4604	0,00217
FM-A8000	8000	296,14	71,91	30,20	4752	0,00210
FM-A8250	8250	300,75	74,14	31,14	4901	0,00204
FM-A8500	8500	305,30	76,38	32,08	5049	0,00198
FM-A8750	8750	309,78	78,61	33,02	5198	0,00192
FM-A9000	9000	314,20	80,85	33,96	5346	0,00187
FM-A9250	9250	318,56	83,09	34,90	5495	0,00182
FM-A9500	9500	322,87	85,32	35,83	5643	0,00177
FM-A9750	9750	327,12	87,56	36,77	5792	0,00173
FM-A10000	10000	331,32	89,79	37,71	5940	0,00168

Submerged weight based on sea water density of 1,03 kg/dm<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  
Twaron® is a registered trademark of Teijin Aramid