

FibreMax Dyneema Cables

Dyneema®, invented by DSM Dyneema, is a High Modulus Polyethylene (HMPE) fibre that offers maximum strength combined with minimum weight.

FibreMax cables made with Dyneema® SK-78 are as strong as steel-wire ropes, polyester or nylon ropes, but offer 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 Dyneema® SK-78
- Highest strength-to-weight ratio of any fibre
- Highest abrasion resistance of any fibre
- Excellent dynamic toughness
- Specific density approx. 0,96 (floats in water)
- Tensile strength 3200 MPa
- E-modulus 110 GPa
- Creep < 4%
- Maximum EA at 5% MBL
- Good UV resistance
- Excellent fatigue life
- Low elongation
- Good chemical resistance
- Long continuous lengths
- ABS/DNV certification and others possible
- Applications:
 - Deep sea mooring
 - Offshore and marine installations
 - Heavy Lifting



FIBRE Max

All fibres used to the Max...

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FibreMax Dyneema cable	MBL Tonne	Diameter mm	Weight		EA MN	Stretch mm/m/1000kg
			in air kg/meter	submerged kg/meter		
FM-D50	50	26,1	0,45		27,58	0,36259
FM-D100	100	33,8	0,71		47,64	0,20992
FM-D150	150	41,0	1,02		71,45	0,13995
FM-D200	200	47,1	1,32		95,27	0,10496
FM-D250	250	52,6	1,63		119,09	0,08397
FM-D300	300	57,5	1,93		142,91	0,06997
FM-D350	350	62,1	2,24		166,73	0,05998
FM-D400	400	66,3	2,54		190,55	0,05248
FM-D450	450	70,3	2,85		214,36	0,04665
FM-D500	500	74,1	3,15		238,18	0,04198
FM-D550	550	77,7	3,46		262,00	0,03817
FM-D600	600	81,2	3,76		285,82	0,03499
FM-D650	650	84,5	4,07		309,64	0,03230
FM-D700	700	87,8	4,37		333,46	0,02999
FM-D750	750	90,9	4,68		357,27	0,02799
FM-D800	800	93,9	4,98		381,09	0,02624
FM-D850	850	96,8	5,29		404,91	0,02470
FM-D900	900	99,7	5,59		428,73	0,02332
FM-D950	950	102,4	5,90		452,55	0,02210
FM-D1000	1000	105,2	6,20		476,37	0,02099
FM-D1250	1250	117,1	7,65		595,46	0,01679
FM-D1500	1500	127,8	9,09		714,55	0,01399
FM-D1750	1750	137,8	10,54		833,64	0,01200
FM-D2000	2000	147,0	11,98		952,73	0,01050
FM-D2250	2250	155,7	13,43		1071,82	0,00933
FM-D2500	2500	164,0	14,87		1190,91	0,00840
FM-D2750	2750	171,8	16,32		1310,01	0,00763
FM-D3000	3000	179,4	17,76		1429,10	0,00700
FM-D3250	3250	186,6	19,21		1548,19	0,00646
FM-D3500	3500	193,5	20,65		1667,28	0,00600
FM-D3750	3750	200,2	22,10		1786,37	0,00560
FM-D4000	4000	206,7	23,54		1905,46	0,00525
FM-D4250	4250	213,0	24,99		2024,55	0,00494
FM-D4500	4500	219,2	26,43		2143,65	0,00466
FM-D4750	4750	225,1	27,88		2262,74	0,00442
FM-D5000	5000	230,9	29,32		2381,83	0,00420
FM-D5250	5250	236,8	30,75		2500,92	0,00400
FM-D5500	5500	242,4	32,19		2620,01	0,00382
FM-D5750	5750	247,8	33,64		2739,10	0,00365
FM-D6000	6000	253,1	35,08		2858,19	0,00350
FM-D6250	6250	258,3	36,53		2977,29	0,00336
FM-D6500	6500	263,4	37,97		3096,38	0,00323
FM-D6750	6750	268,4	39,42		3215,47	0,00311
FM-D7000	7000	273,4	40,86		3334,56	0,00300
FM-D7250	7250	278,2	42,31		3453,65	0,00290
FM-D7500	7500	283,0	43,75		3572,74	0,00280
FM-D7750	7750	287,7	45,20		3691,83	0,00271
FM-D8000	8000	292,3	46,64		3810,93	0,00262
FM-D8250	8250	296,8	48,09		3930,02	0,00254
FM-D8500	8500	301,3	49,53		4049,11	0,00247
FM-D8750	8750	305,7	50,98		4168,20	0,00240
FM-D9000	9000	310,1	52,42		4287,29	0,00233
FM-D9250	9250	314,4	53,87		4406,38	0,00227
FM-D9500	9500	318,6	55,31		4525,47	0,00221
FM-D9750	9750	322,8	56,76		4644,56	0,00215
FM-D10000	10000	326,8	58,20		4763,66	0,00210

Buoyant in seawater

Submerged weight based on seawater density of 1,03 kg/m³. 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. Dyneema® is a registered trademark of DSM Dyneema