

FibreMax PBO Cables

Zylon®, produced by the Japanese company Toyobo, is an extremely strong fibre. Its strength and modulus are higher than those of any synthetic fibre on the market and almost twice of Kevlar®. Although fairly new, many applications that require an extremely high strength and thermal stability use Zylon fibres.

FibreMax cables made with Zylon®-HM 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 Zylon®-HM
- Excellent strength-to-weight ratio
- Specific density approx. 1,45
- Tensile strength 5800 MPa
- E-modulus 245 GPa
- Zero creep
- Maximum EA at 5% MBL
- Excellent fatigue life
- Very low elongation
- Good chemical resistance
- Flame resistant
- Long continuous lengths
- ABS/DNV certification and others possible
- Applications:
 - Offshore and marine applications
 - Heavy lifting
 - Aviation/Aerospace
 - Yacht rigging



FIBREMax

All fibres used to the Max...

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FibreMax PBO cable	MBL Tonne	Diameter mm	Weight kg/meter	EA MN	Stretch mm/m/1000kg
FM-P50	50	19,14	0,40	39,03	0,25620
FM-P100	100	26,44	0,65	78,06	0,12810
FM-P150	150	32,09	0,91	117,10	0,08540
FM-P200	200	36,88	1,19	156,13	0,06405
FM-P250	250	41,13	1,47	195,16	0,05124
FM-P300	300	44,99	1,74	234,19	0,04270
FM-P350	350	48,55	2,02	273,23	0,03660
FM-P400	400	51,88	2,30	312,26	0,03202
FM-P450	450	55,02	2,58	351,29	0,02847
FM-P500	500	58,00	2,85	390,32	0,02562
FM-P550	550	60,85	3,13	429,35	0,02329
FM-P600	600	63,58	3,41	468,39	0,02135
FM-P650	650	66,20	3,68	507,42	0,01971
FM-P700	700	68,74	3,96	546,45	0,01830
FM-P750	750	71,19	4,24	585,48	0,01708
FM-P800	800	73,56	4,52	624,52	0,01601
FM-P850	850	75,87	4,79	663,55	0,01507
FM-P900	900	78,12	5,07	702,58	0,01423
FM-P950	950	80,32	5,35	741,61	0,01348
FM-P1000	1000	82,46	5,63	780,65	0,01281
FM-P1250	1250	91,71	6,93	975,81	0,01025
FM-P1500	1500	100,09	8,24	1170,97	0,00854
FM-P1750	1750	107,81	9,54	1366,13	0,00732
FM-P2000	2000	115,01	10,85	1561,29	0,00640
FM-P2250	2250	121,79	12,16	1756,45	0,00569
FM-P2500	2500	128,21	13,46	1951,61	0,00512
FM-P2750	2750	134,32	14,77	2146,77	0,00466
FM-P3000	3000	140,17	16,08	2341,94	0,00427
FM-P3250	3250	145,80	17,38	2537,10	0,00394
FM-P3500	3500	151,21	18,69	2732,26	0,00366
FM-P3750	3750	156,45	19,99	2927,42	0,00342
FM-P4000	4000	161,51	21,30	3122,58	0,00320
FM-P4250	4250	166,43	21,87	3317,74	0,00301
FM-P4500	4500	171,21	23,91	3512,90	0,00285
FM-P4750	4750	175,87	25,22	3708,06	0,00270
FM-P5000	5000	180,41	26,53	3903,23	0,00256
FM-P5250	5250	185,04	27,83	4098,39	0,00244
FM-P5500	5500	189,38	29,12	4293,55	0,00233
FM-P5750	5750	193,62	30,42	4488,71	0,00223
FM-P6000	6000	197,77	31,73	4683,87	0,00213
FM-P6250	6250	201,84	33,04	4879,03	0,00205
FM-P6500	6500	205,84	34,34	5074,19	0,00197
FM-P6750	6750	209,76	35,65	5269,35	0,00190
FM-P7000	7000	213,62	36,96	5464,52	0,00183
FM-P7250	7250	217,41	38,26	5659,68	0,00177
FM-P7500	7500	221,13	39,57	5854,84	0,00171
FM-P7750	7750	224,80	40,88	6050,00	0,00165
FM-P8000	8000	228,42	42,18	6245,16	0,00160
FM-P8250	8250	231,98	43,49	6440,32	0,00155
FM-P8500	8500	235,49	44,79	6635,48	0,00151
FM-P8750	8750	238,95	46,10	6830,65	0,00146
FM-P9000	9000	242,37	47,41	7025,81	0,00142
FM-P9250	9250	245,74	48,71	7220,97	0,00138
FM-P9500	9500	249,07	50,02	7416,13	0,00135
FM-P9750	9750	252,36	51,33	7611,29	0,00131
FM-P10000	10000	255,61	52,63	7806,45	0,00128

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
Zylon® is a registered trademark of ToyoboCo., Ltd.