

COTESI[®]

MARINE DIVISION



COTESI in the world







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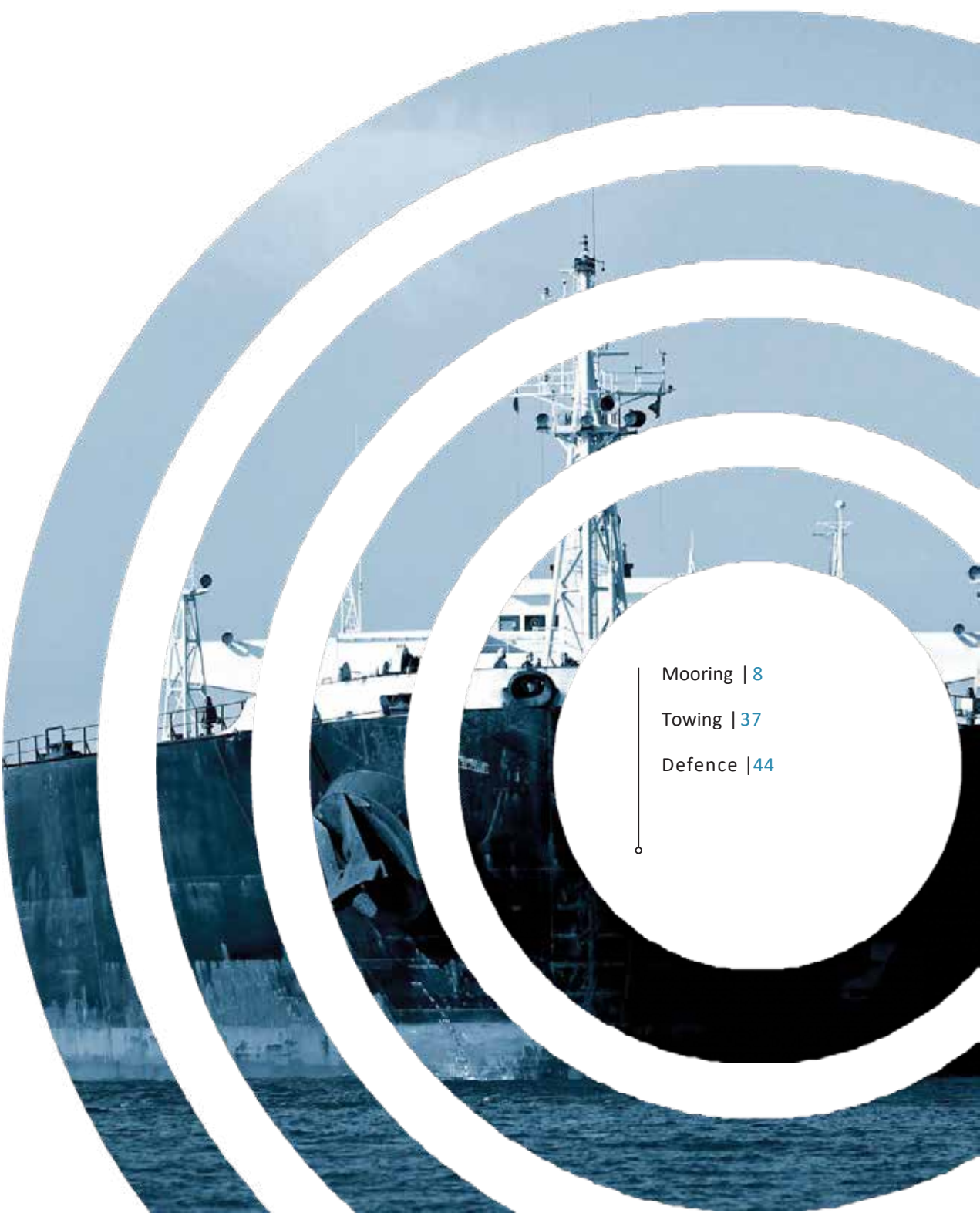
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Marine

With our mind on the future, Cotesi Marine Division is a [promise of quality and service](#), a partner keen on responding to the latest market demands with solutions developed hand-in-hand with our customers.



Mooring | 8

Towing | [37](#)

Defence | [44](#)



In a market that is increasingly demanding and competitive, Cotesi is at the forefront when it comes to product range and quality. With over 50 years of experience and market know-how, Cotesi Marine Division was born as a provider of solutions to the increasing needs faced by our maritime customers. Together with them, our R&D department maintains a continuous pursuit for the most innovative materials and latest manufacturing processes - providing the latest solutions for mooring and towing ropes in the market.

From cables with a jacket to double braids, 12 strands all the way to 3, our products are customizable and tested to fit even the most specific needs.

The use of high-performance fibers and extruded polymers produced internally is a promise of quality and a bow to Cotesi's devotion to the future.

With a deep knowledge of the industry's needs and a strong notion of service, Cotesi is more than a supplier, it is a partner keen on helping our customers thrive – an ISO9001:2015 certified company.

MOORING



SuperTow

SUPERTOW was specially designed for Mooring and Towing applications. Made from high tenacity (HT) polyester, its construction of multi parallel cores maximizes rope breaking strength whilst the compact braided protective cover, comprise of several double twisted yarns, enhances life span by adding to the rope excellent abrasion resistance properties. SUPERTOW is spliced with the new CS3 splice, developed in-house by our rigging department. This new technique maximizes rope LDBF (Line Design Breaking Force). Eyes are customized to customer needs and are always protected with coated Pro-Tech polyester and cordura covers. Cotesi D-Web protect cover, made from HMWPE, is also available on request.



Jacketed Ropes

Advantages

- Excellent ratio between diameter, weight and breaking load
- Excellent abrasion resistance
- Excellent UV resistance
- Lower elongation
- Lower operational costs
- CS3 Splice

Applications

Mooring
Lines

Winch
Lines

Towing
and Tug
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	399	39,9	26,8	19.942	43.964	196
26	1 1/32	3 1/4	496	49,6	33,3	24.765	54.597	243
28	1 1/8	3 1/2	616	61,6	41,4	30.750	67.791	302
30	1 1/4	3 3/4	691	69,1	46,4	35.315	77.855	346
32	1 5/16	4	765	76,5	51,4	39.880	87.919	391
36	1 1/2	4 1/2	950	95	63,8	49.775	109.733	488
40	1 5/8	5	1.310	131	88	60.270	132.870	591
42	1 11/16	5 5/16	1.400	140	94,1	68.000	149.913	667
44	1 3/4	5 1/2	1.470	147	98,8	72.264	159.312	708
48	2	6	1.750	175	117,6	84.858	187.076	832
52	2 1/8	6 1/2	1.890	189	127	98.551	217.263	966
56	2 1/4	7	2.270	227	152,5	112.644	248.333	1.104
60	2 1/2	7 1/2	2.560	256	172	128.036	282.266	1.255
64	2 5/8	8	2.840	284	190,8	143.728	316.861	1.409
68	2 3/4	8 1/2	3.070	307	206,3	160.820	354.540	1.577
72	2 7/8	9	3.670	367	246,6	177.711	391.779	1.742
76	3	9 1/2	3.900	390	262,1	195.802	431.662	1.920
80	3 1/4	10	4.170	417	280,2	213.993	471.766	2.098
88	3 5/8	11	4.930	493	331,3	254.773	561.668	2.498
96	4	12	5.600	560	376,3	297.801	656.523	2.920
104	4 1/4	13	6.620	662	444,8	349.925	771.439	3.431
112	4 5/8	14	7.880	788	529,5	413.393	911.361	4.053

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
 - 25%2,8%
 - 50%4,9%

D-TECH WINCHLINE PLUS

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves abrasion, heat resistance and fatigue properties. Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMWPE. Also available with PES & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	310	31	20,8	33.141	73.062	325
30	1 1/4	3 3/4	500	50	33,6	64.956	143.201	637
32	1 5/16	4	640	64	43	75.051	165.457	736
34	1 11/32	4 1/4	680	68	45,7	84.025	185.240	824
36	1 1/2	4 1/2	720	72	48,4	92.998	205.023	912
38	1 9/16	4 3/4	800	80	53,8	101.972	224.806	1.000
40	1 5/8	5	900	90	60,5	116.248	256.279	1.140
44	1 3/4	5 1/2	1.110	111	74,6	140.721	310.232	1.380
48	2	6	1.320	132	88,7	164.175	361.938	1.610
52	2 1/8	6 1/4	1.500	150	100,8	195.786	431.628	1.920
56	2 1/4	7	1.765	176,5	118,6	230.457	508.062	2.260

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C
- ✓ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMPE. Also available with PES & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	38.749	85.426	380
30	1 1/4	3 3/4	425	42,5	28,6	45.887	101.163	450
32	1 1/3	4	474	47,4	31,9	53.025	116.899	520
34	1 11/32	4 1/4	544	54,4	36,6	61.183	134.884	600
36	1 1/2	4 1/2	637	63,7	42,8	69.341	152.868	680
38	1 4/7	4 3/4	706	70,6	47,4	78.518	173.101	770
40	1 5/8	5	765	76,5	51,4	88.716	195.581	870
44	1 3/4	5 1/2	963	96,3	64,7	106.051	233.798	1.040
48	2	6	1.100	110	73,9	128.485	283.256	1.260
52	2 1/8	6 1/4	1.380	138	92,7	148.879	328.217	1.460
56	2 1/4	7	1.575	157,5	105,8	173.352	383.170	1.700

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C
- ✓ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE Plus

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	340	34	22,8	33.141	73.062	325
30	1 1/4	3 3/4	551	55,1	37	64.956	143.101	637
32	1 5/16	4	700	70	47	75.051	165.457	736
34	1 11/32	4 1/4	754	75,4	50,7	84.025	185.240	824
36	1 1/2	4 1/2	808	80,8	54,3	92.998	205.023	912
38	1 9/16	4 3/4	893	89,3	60	101.972	224.806	1.000
40	1 5/8	5	1.000	100	67,2	116.248	256.279	1.140
44	1 3/4	5 1/2	1.250	125	84	140.721	310.232	1.380
48	2	6	1.480	148	99,4	164.175	361.938	1.610
52	2 1/8	6 1/4	1.700	170	114,2	195.786	431.628	1.920
56	2 1/4	7	1.900	190	127,7	230.457	508.062	2.260

More diameters available by demand.

- ✓ Raw Material: HMWPE / Polyester
- ✓ Specific Gravity: 1,06
- ✓ Melting Point: 150°C / 265°C
- ✓ Elongation at % of BS: 25% 0,9%
- ✓ 50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties. Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	409	40,9	35,6	38.749	85.426	380
30	1 1/4	3 3/4	489	48,9	42,6	45.887	101.163	450
32	1 1/3	4	508	50,8	44,2	53.025	116.899	520
34	1 11/32	4 1/4	581	58,1	50,6	61.183	134.884	600
36	1 1/2	4 1/2	682	68,2	59,4	69.341	152.868	680
38	1 4/7	4 3/4	750	75	65,3	78.518	173.101	770
40	1 5/8	5	800	80	69,6	88.716	195.581	870
44	1 3/4	5 1/2	1.009	100,9	87,8	106.051	233.798	1.040
48	2	6	1.183	118,3	103	128.485	283.256	1.260
52	2 1/8	6 1/4	1.465	146,5	127,5	148.879	328.217	1.460
56	2 1/4	7	1.675	167,5	145,8	173.352	382.170	1.700

More diameters available by demand.

- ✓ Raw Material: HMWPE / Polyester
- ✓ Specific Gravity: 1,06
- ✓ Melting Point: 150°C / 265°C
- ✓ Elongation at % of BS: 25% 0,9%
- ✓ 50%1,6%

Applications

Mooring
Lines

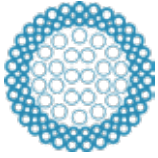
Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Polyamide DB

Polyamide Double Braided ropes provide high breaking strengths while its high elongation works as an excellent energy absorber. The quality of the fibers ensures a perfect twist and lay tension-reducing polyamide natural shrinkage during use. The braided core and cover are oriented to maximize strength, abrasion and heat resistance even in wet conditions. The construction of these ropes makes them ideal for towing, mooring, and other applications that require shock absorption.



Double Braid

Advantages

- Excellent energy absorption
- Good abrasion and wear resistance even in wet conditions
- Good UV resistance
- High flexibility, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Shock
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	22	2,2	1,5	805	1.774	8
8	5/16	1	40	4	2,7	1.428	3.147	14
10	3/8	1 1/8	62	6,2	4,2	2.223	4.901	22
12	1/2	1 1/2	90	9	6	3.192	7.036	31
14	9/16	1 3/4	122	12,2	8,2	4.334	9.554	42
16	5/8	2	159	15,9	10,7	5.639	12.432	55
18	3/4	2 1/4	202	20,2	13,6	7.128	15.714	70
20	13/16	2 1/2	249	24,9	16,7	8.790	19.378	86
22	7/8	2 3/4	301	30,1	20,2	10.605	23.380	104
24	1	3	358	35,8	24,1	12.645	27.876	124
26	1 1/32	3 1/4	420	42	28,2	14.786	32.597	145
28	1 1/8	3 1/2	488	48,8	32,8	17.131	37.767	168
30	1 1/4	3 3/4	560	56	37,6	19.681	43.388	193
32	1 5/16	4	637	63,7	42,8	22.332	49.233	219
36	1 1/2	4 1/2	806	80,6	54,2	28.246	62.271	277
40	1 5/8	5	995	99,5	66,9	34.772	76.659	341
44	1 3/4	5 1/2	1.200	120	80,6	42.012	92.620	412
48	2	6	1.430	143	96,1	49.966	110.155	490
52	2 1/8	6 1/2	1.680	168	112,9	58.532	129.039	574
56	2 1/4	7	1.950	195	131	67.811	149.496	665
60	2 1/2	7 1/2	2.240	224	150,5	77.703	171.302	762
64	2 5/8	8	2.550	255	171,3	88.410	194.907	867
68	2 3/4	8 1/2	2.880	288	193,5	98.709	217.612	968

More diameters available by demand.

In accordance to ISO 10554:2009.

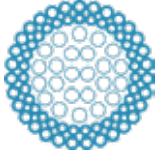
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C

- ✓ Elongation at % of BS:
 - 25% ... 6,7%
 - 50% ... 11,4%

Polyester DB

The smoothness and high tenacity characteristics of polyester are empowered by a construction enhancing its excellent abrasion and high heat resistance, creating a durable high tenacity rope with low elongation and excellent fatigue life. Polyester ropes do not absorb water, so they neither harden nor lose strength when wet. The braided core and cover are oriented to maximize strength, abrasion and heat resistance even in wet conditions. The construction of these ropes makes them ideal for towing, mooring, and other applications that require shock absorption.



Double Braid

Advantages

- Excellent energy absorption
- Good abrasion and wear resistance even in wet conditions
- Good UV resistance
- High flexibility, non-kinking and non-rotating

Applications

Mooring
Lines

Tug and
Towing
Lines

Shock
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	28.7	2,9	1,9	850	1.875	8,3
8	5/16	1	51	5,1	3,4	1.479	3.260	14,5
10	3/8	1 1/8	79,7	8	5,4	2.274	5.013	22,3
12	1/2	1 1/2	115	11,5	7,7	3.233	7.126	31,7
14	9/16	1 3/4	156	15,6	10,5	4.354	9.599	42,7
16	5/8	2	204	20,4	13,7	5.639	12.432	55,3
18	3/4	2 1/4	258	25,8	17,3	7.077	15.602	69,4
20	13/16	2 1/2	319	31,9	21,4	8.668	19.109	85
22	7/8	2 3/4	386	38,6	25,9	10.401	22.930	102
24	1	3	459	45,9	30,8	12.339	27.202	121
26	1 1/32	3 1/4	539	53,9	36,2	14.378	31.698	141
28	1 1/8	3 1/2	625	62,5	42	16.621	36.643	163
30	1 1/4	3 3/4	717	71,7	48,2	18.967	41.814	186
32	1 5/16	4	816	81,6	54,8	21.414	47.209	210
36	1 1/2	4 1/2	1.030	103	69,2	26.921	59.349	264
40	1 5/8	5	1.280	128	86	33.039	72.837	324
44	1 3/4	5 1/2	1.540	154	103,5	39.667	87.450	389
48	2	6	1.840	184	123,6	46.907	103.411	460
52	2 1/8	6 1/2	2.160	216	145,1	54.759	120.721	537
56	2 1/4	7	2.500	250	168	63.019	138.930	618
60	2 1/2	7 1/2	2.870	287	192,9	72.094	158.938	707
64	2 5/8	8	3.260	326	219,1	81.578	179.845	800
68	2 3/4	8 1/2	3.695	369,5	248,3	91.775	202.325	900

More diameters available by demand.

In accordance to ISO 10547:2009

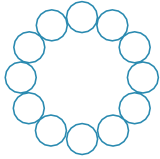
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
25% ... 2,5%
50% ... 7,5%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

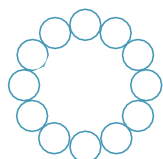
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
 - 25% 0,9%
 - 50% 1,6%

H-Force

Made from HMWPE fibers and protected by a self-unique Pro-Tech impregnation that improves its abrasion resistance. Using a torque-free 12 strands braided construction, H-Force is stronger than steel wire of the same weight and is a cost-saving replacement for wire rope and other conventional HMWPE ropes in several applications.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

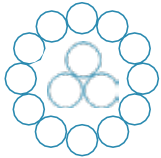
- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% ... 0,9%
50% ... 1,6%

Movflex Floating with SBR

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with floating properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.

The SBRS system (SnapBack Restrain System) is a safety featured added to this rope, that reduces the snapback in the event of an unexpected rupture.



12 Strands



SBR – SnapBack Restrain System

Major Features

- SBRS – Snapback restrain system for additional safety
- Rope core elongates underload
- Energy is progressively absorbed and dissipated
- Snapback force is significantly reduced or neutralized
- Exceptional abrasion and wear resistance even in wet conditions
- 38-40% lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
LinesTowing
Lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	331	33,1	22,2	10.707	23.605	105
26	1 1/32	3 1/4	382	38,2	25,7	12.848	28.326	126
28	1 1/8	3 1/2	433	43,3	29,1	15.092	33.271	148
30	1 1/4	3 3/4	495	49,5	33,3	17.335	38.217	170
32	1 5/16	4	543	54,3	36,5	19.375	42.713	190
34	1 11/32	4 1/4	607	60,7	40,8	21.822	48.108	214
36	1 1/2	4 1/2	671	67,1	45,1	24.269	53.503	238
38	1 9/16	4 3/4	758	75,8	50,9	28.450	62.721	279
40	1 5/8	5	845	84,5	56,8	32.529	71.713	319
44	1 3/4	5 1/2	1.045	104,5	70,5	39.259	86.550	385
48	2	6	1.240	124	83,3	46.091	101.612	452
52	2 1/8	6 1/2	1.465	146,5	98,4	54.351	119.822	533
56	2 1/4	7	1.665	166,5	111,9	62.611	138.031	614
60	2 1/2	7 1/2	1.865	186,5	125,3	70.973	156.465	696
64	2 5/8	8	2.135	213,5	143,5	81.068	178.721	795
68	2 3/4	8 1/2	2.395	239,5	160,9	91.367	201.426	896
72	2 7/8	9	2.765	276,5	185,8	101.870	224.581	999

More diameters available by demand.

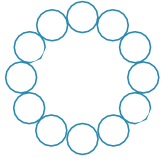
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 0,99
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 5% 4,0%
- 50% 6,0%

Movflex Floating

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with floating properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.



12 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 38-40 % lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
Lines

Towing
Lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	266	26,6	17,9	10.707	23.605	105
26	1 1/32	3 1/4	317	31,7	21,3	12.848	28.326	126
28	1 1/8	3 1/2	368	36,8	24,7	15.092	33.271	148
30	1 1/4	3 3/4	430	43,0	28,9	17.335	38.217	170
32	1 5/16	4	478	47,8	32,1	19.375	42.713	190
34	1 11/32	4 1/4	542	54,2	36,44	21.882	48.108	214
36	1 1/2	4 1/2	606	60,6	40,7	24.269	53.504	238
38	1 9/16	4 3/4	693	69,3	46,6	28.450	62.721	279
40	1 5/8	5	780	78,0	52,4	32.529	71.713	319
44	1 3/4	5 1/2	980	98,0	65,9	39.259	86.550	385
48	2	6	1.175	117,5	78,9	46.091	101.612	452
52	2 1/8	6 1/2	1.400	140,0	94,0	54.351	119.822	533
56	2 1/4	7	1.600	160,0	107,5	62.611	138.031	614
60	2 1/2	7 1/2	1.800	180,0	121,0	70.973	156.465	696
64	2 5/8	8	2.070	207,0	139,1	81.068	178.721	795
68	2 3/4	8 1/2	2.330	233,0	156,5	91.367	201.426	896
72	2 7/8	9	2.700	270,0	181,4	101.870	224.581	999

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

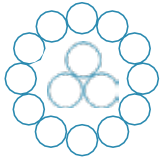
- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 0,99
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 25% 4,0%
- 50% 6,0%

Movflex Sinking with SBR

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with sinking properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.

The SBRS system (SnapBack Restrain System) is a safety featured added to this rope, that reduces the snapback in the event of an unexpected rupture.



12 Strands



SBR – SnapBack Restrain System

Major Features

- SBRS – Snapback restrain system for additional safety
- Rope core elongates underload
- Energy is progressively absorbed and dissipated
- Snapback force is significantly reduced or neutralized
- Exceptional abrasion and wear resistance even in wet conditions
- 18-20% lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
LinesTowing
Lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	410	41	27,6	14.174	31.248	139
26	1 1/32	3 1/4	476	47,6	32	17.131	37.767	168
28	1 1/8	3 1/2	542	54,2	36,4	20.088	44.287	197
30	1 1/4	3 3/4	624	62,4	41,9	22.332	49.233	219
32	1,3125	4	688	62,3	41,9	26.003	57.326	255
34	1 11/32	4 1/4	771	77,1	51,8	29.266	64.519	287
36	1,5	4,5	854	78,9	53	32.529	71.713	319
38	1 9/16	4 3/4	944	94,4	63,4	36.149	79.694	354,5
40	1,625	5	1.034	96,9	65,1	39.769	87.674	390
44	1,75	5,5	1.243	117,8	79,2	47.723	105.209	468
48	2	6	1.471	147,1	98,8	59.160	130.423	580
52	2,125	6,5	1.715	171,5	115,2	68.748	151.561	674
56	2,25	7	1.985	198,5	133,4	79.254	174.722	777
60	2,5	7,5	2.265	226,5	152,2	90.066	198.558	883
64	2,625	8	2.565	256,5	172,4	102.000	224.868	1.000
68	2,75	8,5	2.885	288,5	193,9	114.240	251.852	1.120
72	2,875	9	3.225	322,5	216,7	127.500	281.085	1.250

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

✓ Raw Material: Polyester / Mixed Polyolefins (HT)

✓ Specific Gravity: 1,10

✓ Melting Point: 265°C / 165°C

✓ Elongation at % of BS:

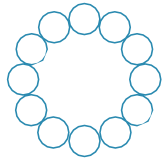
25% 4,0%

50% 6,0%

Movflex Sinking

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with sinking properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.

The SBRS system (SnapBack Restrain System) is a safety featured added to this rope, that reduces the snapback in the event of an unexpected rupture.



12 Strands



Major Features

- SBRS – Snapback restrain system for additional safety
- Rope core elongates underload
- Energy is progressively absorbed and dissipated
- Snapback force is significantly reduced or neutralized
- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
Lines

Towing
Lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	345	34,5	23,2	14.174	31.248	139
26	1 1/32	3 1/4	411	41,1	27,6	17.131	37.767	168
28	1 1/8	3 1/2	477	47,7	32,1	20.088	44.287	197
30	1 1/4	3 3/4	559	55,9	37,6	22.332	49.233	219
32	1,3125	4	623	62,3	41,9	26.003	57.326	255
34	1 11/32	4 1/4	706	70,6	47,4	29.266	64.519	287
36	1,5	4,5	789	78,9	53,0	32.529	71.713	319
38	1 9/16	4 3/4	879	87,9	59,1	36.149	79.694	354,5
40	1,625	5	969	96,9	65,1	39.769	87.674	390
44	1,75	5,5	1.178	117,8	79,2	47.723	105.209	468
48	2	6	1.406	140,6	94,5	59.160	130.423	580
52	2,125	6,5	1.650	165,0	110,9	68.748	151.561	674
56	2,25	7	1.920	192,0	129,0	79.254	174.722	777
60	2,5	7,5	2.200	220,0	147,8	90.066	198.558	883
64	2,625	8	2.500	250,0	168,0	102.000	224.868	1.000
68	2,75	8,5	2.820	282,0	189,5	114.240	251.852	1.120
72	2,875	9	3.160	316,0	212,3	127.500	281.085	1.250

More diameters available by demand.

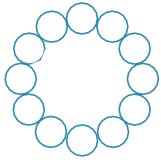
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 1,10
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 25% 4,0%
- 50% 6,0%

Polyamide

Polyamide ropes provide high breaking strengths while its high elongation works as an excellent energy absorber. Its very good abrasion and heat resistance is improved by the 12 strands round plait construction - even in wet conditions - while the quality of fibers ensure a perfect twist and lay tension, reducing natural shrinkage during use.



12 Strands



Advantages

- Excellent shock mitigation
- Good abrasion and wear resistance in wet conditions
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring Lines

Towing Lines

Shock Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	12.033	26.527	118
26	1 1/32	3 1/4	425	42,5	28,6	14.175	31.248	139
28	1 1/8	3 1/2	490	49	32,9	16.316	35.969	160
30	1 1/4	3 3/4	560	56	37,6	18.355	40.465	180
32	1 5/16	4	640	64	43,0	21.618	47.659	212
34	1 11/32	4 1/4	725	73	48,7	24.321	53.617	239
36	1 1/2	4 1/2	810	81	54,4	27.023	59.574	265
40	1 5/8	5	1.000	100	67,2	32.121	70.814	315
44	1 3/4	5 1/2	1.210	121	81,3	38.240	84.302	375
48	2	6	1.440	144	96,8	45.887	101.163	450
52	2 1/8	6 1/2	1.700	170	114,2	54.045	119.147	530
56	2 1/4	7	1.970	197	132,4	61.183	134.884	600

More diameters available by demand.

In accordance to ISO 1140:2021.

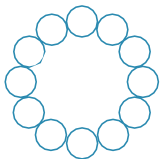
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C

- ✓ Elongation at % of BS:
25% 11%
50% 18%

Polyester

The smoothness and high tenacity characteristics of polyester are empowered by a construction enhancing its excellent abrasion and high heat resistance, creating a durable high tenacity rope with low elongation and excellent fatigue life. Polyester ropes do not absorb water, so they neither harden nor lose strength when wet. Available in 12 strands, 8 strands, 4 strands and 3 strands.



12 Strands



Advantages

- High heat and abrasion resistance
- High strength and low working elongation
- Excellent UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring Lines

Mooring Pendants

Tug and towing lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	437	43,7	29,4	9.687	21.357	95,0
26	1 1/32	3 1/4	516	51,6	34,7	11.217	24.729	110
28	1 1/8	3 1/2	595	59,5	40	12.747	28.101	125
30	1 1/4	3 3/4	683	68,3	45,9	14.276	31.473	140
32	1 5/16	4	777	77,7	52,2	16.316	35.969	160
34	1 11/32	4 1/4	881	88,1	59,2	18.355	40.465	180
36	1 1/2	4 1/2	984	98,4	66,1	20.394	44.961	200
40	1 5/8	5	1.210	121	81,3	25.493	56.201	250
44	1 3/4	5 1/2	1.470	147	98,8	30.592	67.442	300
48	2	6	1.750	175	117,6	36.200	79.806	355
52	2 1/8	6 1/2	2.050	205	137,8	43.338	95.543	425
56	2 1/4	7	2.380	238	159,9	48.437	106.783	475

More diameters available by demand.

In accordance to ISO 1141:2021.

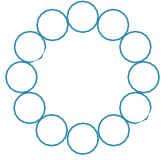
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
25% 5%
50% 8%

Movline Plus

Movline Plus is an extremely strong and high tenacity bi-polymer composite fiber extruded on a custom-built extrusion process. Its gripping capability is enhanced by the outer fuzzy surface developed in use, also protecting the inner fibers against abrasion increasing the rope lifetime. The rope is especially suitable for vessel mooring and also aquaculture cages mooring. Movline Plus are floating ropes and do not absorb water, making them very easy to handle and work with. Available in 12 strands, 8 strands, 4 strands and 3 strands.



12 Strands



Advantages

- High abrasion resistance
- High strength floating line
- No water absorption
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Anchor
Lines

Tug and
towing
lines

Diameter		Size Circ.	Ktex	Weight		Breaking Load		
mm	Inches	Inches		Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	10.605	23.380	104
26	1 1/32	3 1/4	306	30,6	20,6	12.339	27.202	121
28	1 1/8	3 1/2	355	35,5	23,9	14.174	31.248	139
30	1 1/4	3 3/4	408	40,8	27,4	16.112	35.519	158
32	1 5/16	4	464	46,4	31,2	18.253	40.240	179
34	1 11/32	4 1/4	526	52,6	35,3	20.548	45.299	201,5
36	1 1/2	4 1/2	587	58,7	39,4	22.842	50.357	224
40	1 5/8	5	725	72,5	48,7	27.940	61.597	274
44	1 3/4	5 1/2	877	87,7	58,9	33.345	73.512	327
48	2	6	1.040	104	69,9	39.259	86.550	385
52	2 1/8	6 1/2	1.220	122	82	45.683	100.713	448
56	2 1/4	7	1.420	142	95,4	52.414	115.550	514
60	2 1/2	7 1/2	1.630	163	109,5	59.450	131.062	583
64	2 5/8	8	1.860	186	125	66.996	147.698	657
68	2 3/4	8 1/2	2.100	210	141,1	75.153	165.682	737
72	2 7/8	9	2.350	235	157,9	83.617	184.341	820

More diameters available by demand.

In accordance to ISO 10572:2009.

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

✓ Raw Material: Mixed Polyolefin (HT)

✓ Specific Gravity: 0,94

✓ Melting Point: 165°C

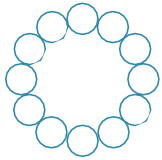
✓ Elongation at % of BS:

25% 2,8%

50% 5,5%

PE MONO

Made from high tenacity polyethylene, this monofilaments plaited rope is lightweight, with good abrasion resistance and long-wearing life. With fine resistance against UV lights and a soft touch, this floating line has good elongation and high creep.



12 Strands



Advantages

- Good abrasion and wear resistance
- Good UV resistance
- Good elongation and high creep
- Floating, no water absorption
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Tug and
barge tie-
up lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
24	1	3	330	33	22,2	6.322	13.938	62
26	1 1/32	3 1/4	360	36	24,2	6.832	15.062	67
28	1 1/8	3 1/2	390	39	26,2	7.342	16.186	72
30	1 1/4	3 3/4	460	46	30,9	8.668	19.109	85
32	1 5/16	4	525	52,5	35,3	9.789	21.581	96
34	1 11/32	4 1/4	593	59,3	39,8	11.013	24.279	108
36	1 1/2	4 1/2	660	66	44,3	12.237	26.977	120
40	1 5/8	5	785	78,5	52,7	14.582	32.147	143
44	1 3/4	5 1/2	950	95	63,8	17.845	39.341	175
48	2	6	1.150	115	77,3	20.700	45.636	203
52	2 1/8	6 1/2	1.350	135	90,7	24.167	53.279	237
56	2 1/4	7	1.570	157	105,5	27.023	59.574	265

More diameters available by demand.

In accordance to ISO 1969:2004.

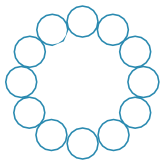
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyethylene Monofilament (HT)
- ✓ Specific Gravity: 0,95
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS: 25% 10%
- 50%16%

Movspun

The appearance and construction of old ropes made from natural fibers, with the strength, abrasion and wear resistance of synthetic materials. This polypropylene floating line has a smooth and fine touch and its hairy surface enhances wear resistance to this lightweight rope, making it very easy to handle and easy to splice.



12 Strands



Advantages

- Smoothness and exceptional touch
- Good abrasion and wear resistance
- Floating, no water absorption
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
24	1	3	260	26	17,5	8.035	17.715	79
26	1 1/32	3 1/4	306	30,6	20,6	9.330	20.570	91
28	1 1/8	3 1/2	354	35,4	23,8	10.707	23.605	105
30	1 1/4	3 3/4	407	40,7	27,3	12.135	26.752	119
32	1 5/16	4	463	46,3	31,1	13.664	30.124	134
34	1 11/32	4 1/4	525	52,5	35,3	15.357	33.834	150
36	1 1/2	4 1/2	586	58,6	39,4	17.029	37.543	167
40	1 5/8	5	723	72,3	48,6	20.802	45.860	204
44	1 3/4	5 1/2	875	87,5	58,8	24.779	54.628	243
48	2	6	1.040	104	69,9	29.164	64.295	286
52	2 1/8	6 1/2	1.220	122	82	33.855	74.636	332
56	2 1/4	7	1.420	142	95,4	38.851	85.651	381

More diameters available by demand.

In accordance to ISO 1346:2021.

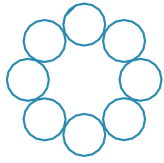
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Spun Polypropylene
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS: 25% 4%
- 50%7,5%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Stronger than steel wire of the same weight, it has proven to be a cost-saving replacement for wire rope in several applications. Its 8 strands plaited construction is smooth and non-rotational.



8 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling
- Very easy to splice

Applications

Mooring
Lines

Anchor
Line

Winch
Lines

Towing
and tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,8	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	399.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635
76	3	9 3/8	3.038	303,8	204,1	407.888	899.224	4.000
80	3 1/4	10	3.353	335,3	225,3	446.128	983.526	4.375
88	3 5/8	11	4.028	402,8	270,7	528.215	1.164.495	5.180
96	4	12	4.762	476,2	320	615.911	1.357.828	6.040
104	4 1/4	13	5.555	555,5	373,3	709.725	1.564.650	6.960
112	4 5/8	14	6.406	640,6	430,5	809.148	1.783.836	7.935
120	5	15	7.316	731,6	491,6	913.669	2.014.262	8.960
128	5 1/4	16	8.233	823,3	553,2	1.024.309	2.258.176	10.045
136	5 1/2	17	9.308	930,8	625,5	1.140.047	2.513.331	11.180

More diameters available by demand.

In accordance to ISO 10325:2018.

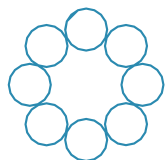
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
50% 1,6%

Movflex Sinking

Movflex is a special composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This distinct combination gives it excellent fatigue properties when compared to an all polyester rope but with less handling weight. Its a firm, plaited and non-rotational construction that provides flexibility and smoothness, while its double/triple twisted cover yarns delivers excellent abrasion and heat resistance. This combination of fibers allows a rope with smaller diameters (less weight) with excellent characteristics. Available in 12 strands, 4 strands and 3 strands.



8 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
LinesTowing
Line

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	345	34,5	23,2	14.174	31.248	139
26	1 1/32	3 1/4	411	41,1	27,6	17.131	37.767	168
28	1 1/8	3 1/2	477	47,7	32,1	20.088	44.287	197
30	1 1/4	3 3/4	559	55,9	37,6	22.332	49.233	219
32	1 5/16	4	623	62,3	41,9	26.003	57.326	255
36	1 1/2	4 1/2	789	78,9	53	32.529	71.713	319
40	1 5/8	5	969	96,9	65,1	39.769	87.674	390
44	1 3/4	5 1/2	1.178	117,8	79,2	47.723	105.209	468
48	2	6	1.406	140,6	94,5	56.492	124.543	554
52	2 1/8	6 1/2	1.644	164,4	110,5	65.874	145.225	646
56	2 1/4	7	1.910	191	128,3	75.969	167.480	745
60	2 1/2	7 1/2	2.195	219,5	147,5	86.778	191.310	851
64	2 5/8	8	2.497	249,7	167,8	97.893	215.814	960
68	2 3/4	8 1/2	2.812	281,2	189	110.436	243.465	1.083
72	2 7/8	9	3.154	315,4	211,9	122.978	271.116	1.206
80	3 1/4	10	3.905	390,5	262,4	150.103	330.914	1.472
88	3 5/8	11	4.720	472	317,2	181.102	399.255	1.776
96	4	12	5.610	561	377	214.141	472.093	2.100
104	4 1/4	13	6.550	655	440,1	248.812	548.527	2.440
112	4 5/8	14	7.630	763	512,7	287.561	633.953	2.820
120	5	15	8.770	877	589,3	327.330	721.627	3.210
128	5 1/4	16	9.980	998	670,6	371.076	818.069	3.639
136	5 1/2	17	11.280	1128	758	416.556	918.332	4.085

More diameters available by demand.

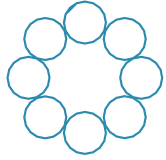
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 1,10
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 25% 4%
- 50% 6%

Movflex Floating

Movflex is a special composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. The specific combination used gives it floating proprieties along with its firm, round and non-rotational construction. Adding to this, its double/triple twisted cover yarns provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling. Available in 12 strands, 4 strands and 3 strands.



8 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 38-40 % lighter than an all polyester ropes
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance
- Floating, very low water absorption

Applications

Mooring
Lines

Towing
Line

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	266	26,6	17,9	10.707	23.605	105
26	11/32	31/4	317	31,7	21,3	12.848	28.326	126
28	11/8	31/2	368	36,8	24,7	15.092	33.271	148
30	11/4	33/4	430	43	28,9	17.335	38.217	170
32	15/16	4	478	47,8	32,1	19.375	42.713	190
36	11/2	41/2	606	60,6	40,7	24.269	53.504	238
40	15/8	5	750	75	50,4	29.572	65.194	290
44	13/4	51/2	900	90	60,5	35.282	77.783	346
48	2	6	1.075	107,5	72,2	41.503	91.496	407
52	21/8	61/2	1.265	126,5	85	48.029	105.884	471
56	21/4	7	1.460	146	98,1	55.269	121.845	542
60	21/2	71/2	1.680	168	112,9	62.713	138.256	615
64	25/8	8	1.910	191	128,3	70.871	156.240	695
68	23/4	81/2	2.160	216	145,1	79.538	175.349	780
72	27/8	9	2.425	242,5	162,9	88.716	195.581	870
80	3 1/4	10	2.985	298,5	200,6	108.600	239.418	1.065
88	3 5/8	11	3.610	361	242,6	130.014	286.628	1.275
96	4	12	4.300	430	288,9	152.958	337.209	1.500
104	41/4	13	5.055	505,5	339,7	178.451	393.410	1.750
112	45/8	14	5.890	589	395,8	205.983	454.108	2.020
120	5	15	6.700	670	450,2	227.907	502.441	2.235
128	51/4	16	7.650	765	514	257.989	568.759	2.530
136	51/2	17	8.625	862,5	579,6	290.620	640.697	2.850

More diameters available by demand.

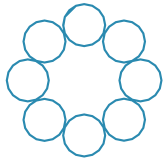
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 0,99
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 25% 4%
- 50% 6%

Polyamide

Polyamide ropes provide high breaking strength while its high elongation works as an excellent energy absorber. Its very good abrasion and heat resistance are enhanced by the 8 strands plaited construction - even in wet conditions - while the quality of fibers ensures a perfect twist and lay tension, reducing natural shrinkage in use.



8 Strands



Advantages

- Excellent shock mitigation
- Good abrasion and wear resistance in wet conditions
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Shock
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	11.421	25.178	112
26	1 1/32	3 1/4	420	42	28,2	13.358	29.450	131
28	1 1/8	3 1/2	490	49	32,9	15.296	33.721	150
30	1 1/4	3 3/4	560	56	37,6	17.335	38.217	170
32	1 5/16	4	640	64	43	20.394	44.961	200
36	1 1/2	4 1/2	810	81	54,4	25.493	56.201	250
40	1 5/8	5	1.000	100	67,2	30.592	67.442	300
44	1 3/4	5 1/2	1.210	121	81,3	36.200	79.806	355
48	2	6	1.440	144	96,8	43.338	95.543	425
52	2 1/8	6 1/2	1.700	170	114,2	50.986	112.403	500
56	2 1/4	7	1.770	177	118,9	57.104	125.891	560
60	2 1/2	7 1/2	2.260	226	151,9	64.242	141.628	630
64	2 5/8	8	2.570	257	172,7	72.400	159.612	710
68	2 3/4	8 1/2	2.865	286,5	192,5	81.34	179.395	798
72	2 7/8	9	3.250	325	218,4	90.449	199.403	887
80	3 1/4	10	4.010	401	269,5	114.209	251.783	1.120
88	3 5/8	11	4.860	486	326,6	134.603	296.744	1.320
96	4	12	5.780	578	388,4	163.155	359.690	1.600
104	4 1/4	13	6.780	678	455,6	183.550	404.651	1.800
112	4 5/8	14	7.870	787	528,8	216.181	476.589	2.120
120	5	15	9.030	903	606,8	240.654	530.542	2.360
128	5 1/4	16	10.100	1.010	678,7	270.226	595.736	2.650
136	5 1/2	17	11.600	1.160	779,5	305.916	674.418	3.000

More diameters available by demand.

In accordance to ISO 1140:2021.

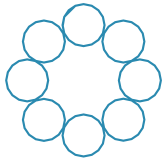
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C

- ✓ Elongation at % of BS:
 - 25% 11%
 - 50% 18%

Polyester

The smoothness and high tenacity characteristics of polyester are empowered by a construction enhancing its excellent abrasion and high heat resistance, creating a durable high tenacity rope with low elongation and excellent fatigue life. Polyester ropes do not absorb water, so they neither harden or lose strength when wet.



8 Strands



Advantages

- High heat and abrasion resistance
- High strength and low working elongation
- Excellent UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Mooring
pendants

Tug and
towing
lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	437	43,7	29,4	9.177	20.233	90,0
28	1 1/8	3 1/2	595	59,5	40,0	12.033	26.527	118
30	1 1/4	3 3/4	683	68,3	45,9	13.460	29.674	132
32	1 5/16	4	777	77,7	52,2	15.296	33.721	150
36	1 1/2	4 1/2	984	98,4	66,1	19.375	42.713	190
40	1 5/8	5	1.210	121	81,3	24.065	53.054	236
44	1 3/4	5 1/2	1.470	147	98,8	28.552	62.946	280
48	2	6	1.750	175	117,6	34.161	75.310	335
52	2 1/8	6 1/2	2.050	205	137,8	40.789	89.922	400
56	2 1/4	7	2.380	238	152,3	45.887	101.163	450
60	2 1/2	7 1/2	2.730	273	183,4	50.986	112.403	500
64	2 5/8	8	3.110	311	209,0	57.104	125.891	560
72	2 7/8	9	3.930	393	264,1	72.400	159.612	710
80	3 1/4	10	4.860	486	326,6	91.775	202.325	900
88	3 5/8	11	5.880	588	395,1	108.090	238.294	1.060
96	4	12	6.990	699	469,7	127.465	281.007	1.250
104	4 1/4	13	8.210	821	551,7	152.958	337.209	1.500
112	4 5/8	14	9.520	952	639,7	173.352	382.170	1.700
120	5	15	10.900	1.090	732,4	193.747	427.131	1.900
128	5 1/4	16	12.400	1.240	833,2	217.200	478.837	2.130
136	5 1/2	17	14.000	1400	940,7	243.713	537.286	2.390

More diameters available by demand.

In accordance to ISO 1141:2021.

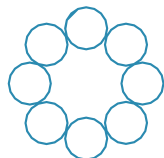
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
 - 25% 5%
 - 50% 8%

Movline Plus

Movline Plus is an extremely strong and high tenacity bi-polymer composite fiber extruded on a custom-built extrusion process. Its gripping capability is enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion increasing the rope lifetime. The rope is especially suitable for vessel mooring and also aquaculture cages mooring. Movline Plus are floating ropes and do not absorb water, making them very easy to handle and work with. Available in 12 strands, 8 strands, 4 strands and 3 strands.



8 Strands



Advantages

- High abrasion resistance
- High strength floating line
- No water absorption
- Good UV resistance
- Non-kinking and non-rotating

Applications

Mooring
LinesAnchor
LinesTug and
Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	10.605	23.380	104
26	1 1/32	3 1/4	306	30,6	20,6	12.339	27.202	121
28	1 1/8	3 1/2	355	35,5	23,9	14.174	31.248	139
30	1 1/4	3 3/4	408	40,8	27,4	16.112	35.519	158
32	1 5/16	4	464	46,4	31,2	18.253	40.240	179
36	1 1/2	4 1/2	587	58,7	39,4	22.842	50.357	224
40	1 5/8	5	725	72,5	48,7	27.940	61.597	274
44	1 3/4	5 1/2	877	87,7	58,9	33.345	73.512	327
48	2	6	1.040	104	69,9	39.259	86.550	385
52	2 1/8	6 1/2	1.220	122	82	45.683	100.713	448
56	2 1/4	7	1.420	142	95,4	52.414	115.550	514
60	2 1/2	7 1/2	1.630	163	109,5	59.450	131.062	583
64	2 5/8	8	1.860	186	125	66.996	147.698	657
68	2 3/4	8 1/2	2.100	210	141,1	75.153	165.682	737
72	2 7/8	9	2.350	235	157,9	83.617	184.341	820
80	3 1/4	10	2.900	290	194,9	101.462	223.682	995
88	3 5/8	11	3.510	351	235,9	121.347	267.519	1.190
96	4	12	4.170	417	280,2	142.761	314.728	1.400
104	4 1/4	13	4.900	490	329,3	165.195	364.186	1.620
112	4 5/8	14	5.680	568	381,7	191.707	422.635	1.880
120	5	15	6.520	652	438,1	217.200	478.837	2.130
128	5 1/4	16	7.420	742	498,6	246.772	544.031	2.420
136	5 1/2	17	8.380	838	563,1	277.364	611.472	2.720

More diameters available by demand.

In accordance to ISO 10572:2009

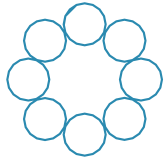
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
- 25% 2,8%
- 50% 5,5%

PP Multifilament HT

Made from high tenacity (HT) polypropylene multifilament yarns, its 8 strands plaited construction results on a high strength and lightweight rope. With a soft touch, this floating rope has good abrasion resistance and good elongation being a good compromise for mooring applications.



8 Strands



Advantages

- Lightweight
- Good elongation
- Good abrasion resistance
- Flexible, soft, non-kinking and non-rotating

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	260	26	17,5	7.648	16.860	75
28	1 1/8	3 1/2	354	35,4	23,8	10.197	22.481	100
30	1 1/4	3 3/4	407	40,7	27,3	11.421	25.178	112
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	16.316	35.969	160
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	24.065	53.054	236
48	2	6	1.040	104	69,9	28.552	62.496	280
52	2 1/8	6 1/2	1.220	122	82,0	34.161	75.310	335
56	2 1/4	7	1.420	142	95,4	38.240	84.302	375
60	2 1/2	7 1/2	1.630	163	109,5	43.338	95.543	425
64	2 5/8	8	1.850	185	124,3	43.338	106.783	475
72	2 7/8	9	2.340	234	157,2	61.183	134.884	600
80	3 1/4	10	2.890	289	194,2	76.479	168.604	750
88	3 5/8	11	3.500	350	235,2	91.775	202.325	900
96	4	12	4.170	417	280,2	108.090	238.294	1.060

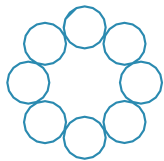
More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene Multifilament (HT)
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6%
- ✓ Elongation at % of BS: 50% 8%

PP Mono

Made from high tenacity polypropylene monofilaments yarns, its 8 strands plaited construction results on a high strength and lightweight rope with good abrasion resistance and good elongation being a good compromise on a price/quality ratio.



8 Strands



Advantages

- Lightweight
- Good elongation
- Good abrasion resistance
- Flexible, non-kinking and non-rotating

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	260	26	17,5	7.648	16.860	75
28	1 1/8	3 1/2	354	35,4	23,8	10.197	22.481	100
30	1 1/4	3 3/4	407	40,7	27,3	11.421	25.178	112
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	16.316	35.969	160
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	24.065	53.054	236
48	2	6	1.040	104	69,9	28.552	62.496	280
52	2 1/8	6 1/2	1.220	122	82,0	34.161	75.310	335
56	2 1/4	7	1.420	142	95,4	38.240	84.302	375
60	2 1/2	7 1/2	1.630	163	109,5	43.338	95.543	425
64	2 5/8	8	1.850	185	124,3	43.338	106.783	475
72	2 7/8	9	2.340	234	157,2	61.183	134.884	600
80	3 1/4	10	2.890	289	194,2	76.479	168.604	750
88	3 5/8	11	3.500	350	235,2	91.775	202.325	900
96	4	12	4.170	417	280,2	108.090	238.294	1.060

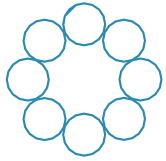
More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene Multifilament (HT)
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6%
- ✓ Elongation at % of BS: 50% 8%

Movspun

The appearance and construction of old ropes made from natural fibers, with the strength, abrasion and wear resistance of synthetic materials. This polypropylene floating line has a smooth and fine touch and its hairy surface enhances wear resistance to this lightweight rope, making it very easy to handle and easy to splice.



8 Strands



Advantages

- Smoothness and exceptional touch
- Good abrasion and wear resistance
- Floating, no water absorption
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	260	26	17,5	8.035	17.715	78,8
26	1 1/32	3 1/4	306	30,6	20,6	9.330	20.570	91,5
28	1 1/8	3 1/2	354	35,4	23,8	10.707	23.605	105
30	1 1/4	3 3/4	407	40,7	27,3	12.135	26.752	119
32	1 5/16	4	463	46,3	31,1	13.664	30.124	134
36	1 1/2	4 1/2	586	58,6	39,4	17.029	37.543	167
40	1 5/8	5	723	72,3	48,6	20.802	45.860	204
44	1 3/4	5 1/2	875	87,5	58,8	24.779	54.628	243
48	2	6	1.040	104	69,9	29.164	64.295	286
52	2 1/8	6 1/2	1.220	122	82	33.855	74.636	332
56	2 1/4	7	1.420	142	95,4	38.851	85.651	381
60	2 1/2	7 1/2	1.630	163	109,5	44.154	97.341	433
64	2 5/8	8	1.850	185	124,3	49.762	109.705	488
68	2 3/4	8 1/2	2.095	209,5	140,8	55.881	123.194	548
72	2 7/8	9	2.340	234	157,2	61.999	136.682	608
80	3 1/4	10	2.890	289	194,2	75.459	166.356	740
88	3 5/8	11	3.500	350	235,2	90.449	199.403	887
96	4	12	4.170	417	280,2	106.051	233.798	1.040
104	4 1/4	13	4.890	489	328,6	123.386	272.015	1.210
112	4 5/8	14	5.670	567	381	141.741	312.480	1.390
120	5	15	6.510	651	437,4	161.116	355.193	1.580
128	5 1/4	16	7.410	741	497,9	181.510	400.155	1.780
136	5 1/2	17	8.360	836	561,8	203.944	449.612	2.000

More diameters available by demand.

In accordance to ISO 1346:2021.

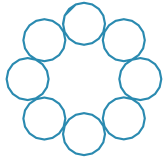
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: Spun Polypropylene
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
 - 25% 4%
 - 50% 7,5%

PE Mono

Made from high tenacity polyethylene, this monofilaments plaited rope is lightweight, with good abrasion resistance and long wearing life. With fine resistance against UV lights and a soft touch, this floating line has good elongation and high creep.



8 Strands



Advantages

- Good abrasion and wear resistance
- Good UV resistance
- Good elongation and high creep
- Floating, no water absorption
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Tug and
barge tie-
up lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	330	33	22,2	6.322	13.938	62
26	1 1/32	3 1/4	360	36	24,2	6.832	15.062	67
28	1 1/8	3 1/2	390	39	26,2	7.342	16.186	72
30	1 1/4	3 3/4	460	46	30,9	8.668	19.109	85
32	1 5/16	4	525	52,5	35,3	9.789	21.581	96
36	1 1/2	4 1/2	660	66	44,3	12.237	26.977	120
40	1 5/8	5	785	78,5	52,7	14.582	32.147	143
44	1 3/4	5 1/2	950	95	63,8	17.845	39.341	175
48	2	6	1.150	115	77,3	20.700	45.636	203
52	2 1/8	6 1/2	1.350	135	90,7	24.167	53.279	237
56	2 1/4	7	1.570	157	105,5	27.023	59.574	265
60	2 1/2	7 1/2	1.800	180	121	30.592	67.442	300
64	2 5/8	8	2.050	205	137,8	34.772	76.659	341
68	2 3/4	8 1/2	2.320	232	155,9	39.157	86.326	384
72	2 7/8	9	2.590	259	174	43.542	95.992	427
80	3 1/4	10	3.210	321	215,7	53.025	116.899	520
88	3 5/8	11	3.880	388	260,7	63.631	140.279	624
96	4	12	4.610	461	309,8	74.847	165.008	734

More diameters available by demand.

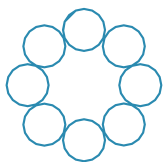
In accordance to ISO 1969:2004.

- ✓ Raw Material: Polyethylene Monofilament (HT)
- ✓ Specific Gravity: 0,95
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS: 25% 10%
- 50% 16%

PP Film

A film plaited rope that has a high level of strength and over twice the service life compared to other standard 8 strands plaited polypropylene ropes. Its flexible construction assures a good and safe handling.



8 Strands



Advantages

- Light weight
- Good elongation
- Good wear resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	260	26	17,5	8.035	17.715	78,8
28	1 1/8	3 1/2	354	35,4	23,8	10.707	23.605	105
30	1 1/4	3 3/4	407	40,7	27,3	12.135	26.752	119
32	1 5/16	4	463	46,3	31,1	13.664	30.124	134
36	1 1/2	4 1/2	586	58,6	39,4	17.029	37.543	167
40	1 5/8	5	723	72,3	48,6	20.802	45.860	204
44	1 3/4	5 1/2	875	87,5	58,8	24.779	54.628	243
48	2	6	1.040	104	69,9	29.164	64.295	286
52	2 1/8	6 1/2	1.220	122	82	33.855	74.636	332
56	2 1/4	7	1.420	142	95,4	38.851	85.651	381
60	2 1/2	7 1/2	1.630	163	109,5	44.154	97.341	433
64	2 5/8	8	1.850	185	124,3	49.762	109.705	488
72	2 7/8	9	2.340	234	157,2	61.999	136.682	608
80	3 1/4	10	2.890	289	194,2	75.459	166.356	740
88	3 5/8	11	3.500	350	235,2	90.449	199.403	887
96	4	12	4.170	417	280,2	106.051	233.798	1.040

More diameters available by demand.

In accordance to ISO 1346:2021.

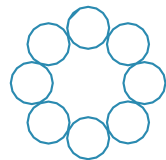
- ✓ Raw Material: Polypropylene Split Film
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS: 25% 6%
- 50% 8%

Mooring Tails Polyamide

Single leg

When additional elasticity to mooring ropes is required we recommend the use of mooring tails. Tails can provide more elasticity working as shock absorbers which allows the ship to respond more favourably when subjected to hard conditions such as strong tides or strong winds.



8 Strands



Advantages

- Excellent shock absorbers
- Excellent elongation
- Flexible, non-kinking and non-rotating

Applications

Mooring
tails

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	g/m	Kg/Un	lbs/Un	kgf	lbf	kN
36	1 1/2	4 1/2	800	14	31	24.500	54.012	240
48	2	6	1.420	24	53	42.012	92.620	412
52	2 1/8	6 1/2	1.660	28	62	48.900	107.804	479
56	2 1/4	7	1.930	33	73	56.100	123.677	550
60	2 1/2	7 1/2	2.220	38	84	63.936	140.953	627
64	2 5/8	8	2.520	45	99	72.298	159.387	709
68	2 3/4	8 1/2	2.865	52	115	81.374	179.395	798
72	3	9	3.190	57	126	90.439	199.380	887
80	3 1/4	10	3.940	71	157	110.130	242.790	1.080
88	3 5/8	11	4.770	81	179	132.650	292.438	1.300
96	4	12	5.680	162	357	156.100	344.136	1.530

More diameters available by demand.

Also available in Double Leg.

- ✓ Raw Material: Polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C

- ✓ Elongation at % of BS:
25% 11%
50% 18%



Single Leg



Double Leg

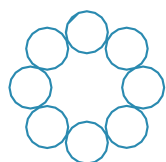
Length: 11m

Eyes: 2m eye one end and 1m eye the other end, both covered with PES heavy duty protection

Mooring Tails Movflex Sinking

Single leg

Movflex Sinking has excellent fatigue properties with a reduced handling weight. The firm plaited and non-rotational construction provides flexibility and smoothness, and the double/triple twisted cover yarns provide excellent abrasion and heat resistance.



8 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent shock absorbers
- Excellent UV resistance

Applications

Mooring
tails

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	g/m	Kg/Un	lbs/Un	kgf	lbf	kN
52	2 1/8	6 1/2	1.644	30	66	65.874	145.225	646
56	2 1/4	7	1.910	35	77	75.969	167.480	745
60	2 1/2	7 1/2	2.195	40	88	86.778	191.310	851
64	2 5/8	8	2.497	45	99	97.893	215.814	960
68	2 3/4	8 1/2	2.812	51	112	110.436	243.465	1.083
72	3	9	3.154	57	126	123.386	272.015	1.210
76	3 1/8	9 1/2	3.530	64	141	136.642	301.240	1.340
80	3 1/4	10	3.905	70	154	149.899	330.465	1.470
88	3 5/8	11	4.720	77	170	181.102	399.255	1.776
96	4	12	5.610	236	520	214.141	472.093	2.100

More diameters available by demand.

Also available in Double Leg.

- ✓ Raw Material: Polyester / Mixed Polyolefins
- ✓ Specific Gravity: 1,10
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
25% 4,0%
50% 6,0%



Single Leg



Double Leg

Length: 11m

Eyes: 2m eye one end and 1m eye the other end, both covered with PES heavy duty protection

Movflex Sinking

Movflex is a special composite rope that blends high tenacity polyester yarns with high tenacity polyolefin yarns. This distinct combination gives it excellent fatigue properties when compared to an all polyester rope but with less handling weight. Constructed with double/triple twisted cover yarns, this rope has excellent abrasion and heat resistance, whilst the polyester combination provides it with flexibility and smoothness. Available in 12 strands and 8 strands.



3 / 4 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Low water absorption
- Flexible and smooth
- Excellent UV resistance

Applications

Mooring
Lines

Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	20	2	1,3	714	1.574	7
8	5/16	1	38	3,8	2,6	1.326	2.922	13
10	3/8	1 1/4	55	5,5	3,7	2.039	4.496	20
12	1/2	1 1/2	80	8	5,4	2.957	6.519	29
14	9/16	1 3/4	109	10,9	7,3	3.977	8.767	39
16	5/8	2	141	14,1	9,5	5.201	11.465	51
18	3/4	2 1/4	178	17,8	12	6.526	14.388	64
20	13/16	2 1/2	221	22,1	14,9	8.158	17.984	80
22	7/8	2 3/4	268	26,8	18	9.789	21.581	96
24	1	3	311	31,1	20,9	11.829	26.077	116
26	1 1/32	3 1/4	370	37	24,9	13.664	30.124	134
28	1 1/8	3 1/2	429	42,9	28,8	15.500	34.171	152
30	1 1/4	3 3/4	503	50,3	33,8	17.437	38.442	171
32	1 5/16	4	561	56,1	37,7	19.579	43.163	192
34	1 11/32	4 1/4	635	63,5	42,7	21.924	48.333	215
36	1 1/2	4 1/2	710	71	47,7	24.371	53.729	239
38	1 9/16	4 3/4	791	79,1	53,2	26.921	59.349	264
40	1 5/8	5	872	87,2	58,6	29.368	64.744	288
44	1 3/4	5 1/2	1.060	106	71,2	35.078	77.333	344
48	2	6	1.265	126,5	85	41.197	90.822	404
52	2 1/8	6 1/2	1.480	148	99,4	45.989	101.388	451
56	2 1/4	7	1.720	172	115,6	53.433	117.798	524
60	2 1/2	7 1/2	1.976	197,6	132,8	60.367	133.085	592
64	2 5/8	8	2.247	224,7	151	66.384	146.349	651
68	2 3/4	8 1/2	2.530	253	170	74.847	165.008	734
72	2 7/8	9	2.840	284	190,8	81.068	178.721	795
80	3 1/4	10	3.520	352	236,5	100.442	221.434	985
90	3 9/16	11 1/8	4.950	495	332,6	136.235	300.341	1.336

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 1,10
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
 - 25% 4,5%
 - 50% 7%

Polyamide

Polyamide ropes provide high breaking strengths while its high elongation works as an excellent energy absorber. Its very good abrasion and heat resistance are enhanced by a twisted balanced construction - even in wet conditions - while the quality of fibers ensure a perfect twist and lay tension-reducing natural shrinkage in use.



3 / 4 Strands

Advantages

- Good abrasion and wear resistance even in wet conditions
- Excellent shock mitigation
- Good UV resistance
- Flexible and smooth construction

Applications

Mooring
Lines

Towing
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	22,2	2,2	1,5	816	1.798	8
8	5/16	1	39,5	4	2,7	1.428	3.147	14
10	3/8	1 1/4	61,7	6,2	4,1	2.162	4.766	21,2
12	1/2	1 1/2	88,8	8,9	6	3.059	6.744	30
14	9/16	1 3/4	121	12,1	8,1	4.079	8.992	40
16	5/8	2	158	15,8	10,6	5.099	11.240	50
18	3/4	2 1/4	200	20	13,4	6.424	14.163	63
20	13/16	2 1/2	247	24,7	16,6	8.158	17.984	80
22	7/8	2 3/4	299	29,9	20,1	9.687	21.357	95
24	1	3	355	35,5	23,9	11.421	25.178	112
26	1 1/32	3 1/4	417	41,7	28	12.747	28.101	125
28	1 1/8	3 1/2	484	48,4	32,5	15.296	33.721	150
30	1 1/4	3 3/4	555	55,5	37,3	17.335	38.217	170
32	1 5/16	4	632	63,2	42,5	19.375	42.713	190
36	1 1/2	4 1/2	800	80	53,8	24.065	53.054	236
40	1 5/8	5	987	98,7	65,3	30.592	67.442	300
44	1 3/4	5 1/2	1.190	119	80	36.200	79.806	355

More diameters available by demand.

In accordance to ISO 1140:2021.

- ✓ Raw Material: Polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C

- ✓ Elongation at % of BS:
25% 9,5%
50% 16,5%

Polyester

The smoothness and high tenacity characteristics of polyester are empowered by a construction enhancing its excellent abrasion and high heat resistance, creating a durable high tenacity rope with low elongation and excellent fatigue life. Polyester ropes do not absorb water, so they neither harden nor lose strength when wet. Available in 12 strands, 8 strands, 4 strands and 3 strands.



3 / 4 Strands

Advantages

- High heat and abrasion resistance
- High strength and low working elongation
- Excellent UV resistance
- Smooth and flexible

Applications

Tie-up
and
Mooring
Lines

Anchor
Lines

Deck
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	27,3	2,7	1,8	612	1.349	6
8	5/16	1	48,5	4,9	3,3	1.081	2.383	10,6
10	3/8	1 1/4	75,8	7,6	5,1	1.632	3.597	16
12	1/2	1 1/2	109	10,9	7,3	2.284	5.036	22,4
14	9/16	1 3/4	149	14,9	10	3.059	6.744	30
16	5/8	2	194	19,4	13	4.079	8.992	40
18	3/4	2 1/4	246	24,6	16,5	5.099	11.240	50
20	13/16	2 1/2	303	30,3	20,4	6.118	13.488	60
22	7/8	2 3/4	367	36,7	24,7	7.240	15.961	71
24	1	3	437	43,7	29,4	8.668	19.109	85
26	1 1/32	3 1/4	512	51,2	34,4	10.197	22.481	100
28	1 1/8	3 1/2	594	59,4	39,9	12.033	26.527	118
30	1 1/4	3 3/4	682	68,2	45,8	13.460	29.674	132
32	1 5/16	4	776	77,6	52,1	15.296	33.721	150
36	1 1/2	4 1/2	982	98,2	66	19.375	42.713	190
40	1 5/8	5	1.210	121	81,3	24.065	53.054	236
44	1 3/4	5 1/2	1.470	147	98,8	28.552	62.946	280

More diameters available by demand.

In accordance to ISO 1141:2021.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
25% 4%
50% 8%

Movline Plus

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer and its balanced twisted construction result on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion.



3 / 4 Strands



Advantages

- High abrasion and wear resistance
- High strength floating line
- No water absorption
- Good UV resistance

Applications

Tie-up
and
Mooring
Lines

General
deck
lines

Towing
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3 1/2	16	1,6	1,1	689	1.520	7
8	5/16	3 3/4	29	2,9	1,9	1.193	2.630	12
10	3/8	4	45	4,5	3	1.835	4.047	18
12	1/2	4 1/2	65	6,5	4,4	2.590	5.710	25
14	9/16	5	88	8,8	5,9	3.467	7.643	34
16	5/8	5 1/2	116	11,6	7,8	4.436	9.779	43
18	3/4	6	147	14,7	9,9	5.557	12.252	54
20	13/16	3	181	18,1	12,2	6.751	14.882	66
22	7/8	3 1/4	219	21,9	14,7	8.066	17.782	79
24	1	3	261	26,1	17,5	9.463	20.862	92,8
26	1 1/32	3 1/4	306	30,6	20,6	10.911	24.054	107
28	1 1/8	3 1/2	355	35,5	23,9	12.543	27.651	123
30	1 1/4	3 3/4	408	40,8	27,4	14.276	31.473	140
32	1 5/16	4	464	46,4	31,2	16.010	35.295	157
36	1 1/2	4 1/2	587	58,7	39,4	19.783	43.612	194
38	1 9/16	4 3/4	656	65,6	44,1	21.822	48.108	214
40	1 5/8	5	725	72,5	48,7	23.861	52.605	234
44	1 3/4	5 1/2	877	87,7	58,9	28.246	62.271	277

More diameters available by demand.

In accordance to ISO 10572:2009.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6%
- 50% 11,5%

PP Mono

A twisted rope made from high tenacity polypropylene monofilaments yarns. Its balanced construction results in a high strength lightweight rope with good abrasion resistance and elongation, making it a good compromise on a price/quality ratio.



3 / 4 Strands



Advantages

- Lightweight
- Good elongation
- Good abrasion resistance

Applications

Tie-up
Lines

General
deck
lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	16,3	1,6	1,1	612	1.349	6
8	5/16	1	28,9	2,9	1,9	1.020	2.248	10
10	3/8	1 1/4	45,2	4,5	3	1.530	3.372	15
12	1/2	1 1/2	65,1	6,5	4,4	2.162	4.766	21,2
14	9/16	1 3/4	88,6	8,9	6	2.855	6.295	28
16	5/8	2	116	11,6	7,8	3.824	8.430	37,5
18	3/4	2 1/4	146	14,6	9,8	4.589	10.116	45,0
20	13/16	2 1/2	181	18,1	12,2	5.710	12.589	56,0
22	7/8	2 3/4	219	21,9	14,7	6.832	15.062	67,0
24	1	3	260	26	17,5	8.158	17.984	80,0
26	1 1/32	3 1/4	306	30,6	20,6	9.177	20.233	90,0
28	1 1/8	3 1/2	354	35,4	23,8	10.809	23.829	106
30	1 1/4	3 3/4	407	40,7	27,3	12.033	26.527	118
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	17.335	38.217	170
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	25.493	56.201	250

More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6,5%
- 50% 12,%

PE Mono

Made from high tenacity polyethylene, this monofilaments plaited rope is lightweight, with good abrasion resistance and long-wearing life. With fine resistance against UV lights, it has good elongation and high creep.

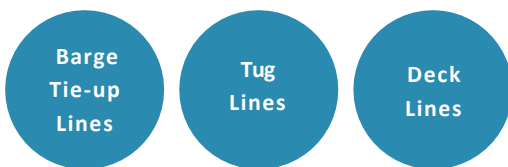


3 / 4 Strands

Advantages

- Good abrasion and wear resistance
- Good UV resistance
- Good elongation and high creep
- Floating, no water absorption

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ.	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3 1/2	18	1,8	1,2	418	922	4
8	5/16	3 3/4	32	3,2	2,2	725	1.598	7
10	3/8	4	50	5	3,4	1.111	2.450	11
12	1/2	4 1/2	72	7,2	4,8	1.581	3.484	15
14	9/16	5	98	9,8	6,6	2.131	4.698	21
16	5/8	5 1/2	128	12,8	8,6	2.753	6.070	27
18	3/4	6	162	16,2	10,9	3.447	7.598	34
20	13/16	3	200	20	13,4	4.211	9.284	41
22	7/8	3 1/4	242	24,2	16,3	5.078	11.195	50
24	1	3	289	28,9	19,4	5.996	13.219	59
26	1 1/32	3 1/4	339	33,9	22,8	6.975	15.377	68
28	1 1/8	3 1/2	393	39,3	26,4	8.076	17.805	79
30	1 1/4	3 3/4	451	45,1	30,3	9.208	20.300	90
32	1 5/16	4	513	51,3	34,5	10.401	22.930	102
36	1 1/2	4 1/2	649	64,9	43,6	13.052	28.775	128
40	1 5/8	5	802	80,2	53,9	16.010	35.295	157
44	1 3/4	5 1/2	970	97	65,2	19.171	42.264	188

More diameters available by demand.

In accordance to ISO 1969:2004.

- ✓ Raw Material: Polyethylene Monofilament (HT)
- ✓ Specific Gravity: 0,95
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 10%
50% 16%

PP Film

An economic PP film twisted rope that has a high level of strength and excellent service life compared to other standard polypropylene ropes.

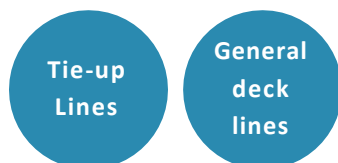


3 / 4 Strands

Advantages

- Economic
- Lightweight
- Good wear resistance

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ.	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	16,3	1,6	1,1	612	1.349	6
8	5/16	1	28,9	2,9	1,9	1.020	2.248	10
10	3/8	1 1/4	45,2	4,5	3	1.530	3.372	15
12	1/2	1 1/2	65,1	6,5	4,4	2.162	4.766	21,2
14	9/16	1 3/4	88,6	8,9	6	2.855	6.295	28
16	5/8	2	116	11,6	7,8	3.824	8.430	37,5
18	3/4	2 1/4	146	14,6	9,8	4.589	10.116	45,0
20	13/16	2 1/2	181	18,1	12,2	5.710	12.589	56,0
22	7/8	2 3/4	219	21,9	14,7	6.832	15.062	67,0
24	1	3	260	26	17,5	8.158	17.984	80,0
26	1 1/32	3 1/4	306	30,6	20,6	9.177	20.233	90,0
28	1 1/8	3 1/2	354	35,4	23,8	10.809	23.829	106
30	1 1/4	3 3/4	407	40,7	27,3	12.033	26.527	118
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	17.335	38.217	170
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	25.493	56.201	250

More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene Split Film
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
25% 6,5%
50% 12%

TOWING



SuperTow

SUPERTOW was specially designed for Mooring and Towing applications. Made from high tenacity (HT) polyester, its construction of multi parallel cores maximizes rope breaking strength whilst the compact braided protective cover, comprise of several double twisted yarns, enhances life span by adding to the rope excellent abrasion resistance properties. SUPERTOW is spliced with the new CS3 splice, developed in-house by our rigging department. This new technique maximizes rope LDBF (Line Design Breaking Force). Eyes are customized to customer needs and are always protected with coated Pro-Tech polyester and cordura covers. Cotesi D-Web protect cover, made from HMWPE, is also available on request.



Jacketed Ropes

Advantages

- Excellent ratio between diameter, weight and breaking load
- Excellent abrasion resistance
- Excellent UV resistance
- Lower elongation
- Lower operational costs
- CS3 Splice

Applications

Mooring
Lines

Winch
Lines

Towing
and Tug
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	399	39,9	26,8	19.942	43.964	196
26	1 1/32	3 1/4	496	49,6	33,3	24.765	54.597	243
28	1 1/8	3 1/2	616	61,6	41,4	30.750	67.791	302
30	1 1/4	3 3/4	691	69,1	46,4	35.315	77.855	346
32	1 5/16	4	765	76,5	51,4	39.880	87.919	391
36	1 1/2	4 1/2	950	95	63,8	49.775	109.733	488
40	1 5/8	5	1.310	131	88	60.270	132.870	591
42	1 11/16	5 5/16	1.400	140	94,1	68.000	149.913	667
44	1 3/4	5 1/2	1.470	147	98,8	72.264	159.312	708
48	2	6	1.750	175	117,6	84.858	187.076	832
52	2 1/8	6 1/2	1.890	189	127	98.551	217.263	966
56	2 1/4	7	2.270	227	152,5	112.644	248.333	1.104
60	2 1/2	7 1/2	2.560	256	172	128.036	282.266	1.255
64	2 5/8	8	2.840	284	190,8	143.728	316.861	1.409
68	2 3/4	8 1/2	3.070	307	206,3	160.820	354.540	1.577
72	2 7/8	9	3.670	367	246,6	177.711	391.779	1.742
76	3	9 1/2	3.900	390	262,1	195.802	431.662	1.920
80	3 1/4	10	4.170	417	280,2	213.993	471.766	2.098
88	3 5/8	11	4.930	493	331,3	254.773	561.668	2.498
96	4	12	5.600	560	376,3	297.801	656.523	2.920
104	4 1/4	13	6.620	662	444,8	349.925	771.439	3.431
112	4 5/8	14	7.880	788	529,5	413.393	911.361	4.053

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C

- ✓ Elongation at % of BS:
 - 25% 2,8%
 - 50% 4,9%

D-TECH WINCHLINE PLUS

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves abrasion, heat resistance and fatigue properties. Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMWPE. Also available with PES & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

D-Tech WINCHLINE

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMPE. Also available with PES & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	310	31	20,8	33.141	73.062	325
30	1 1/4	3 3/4	500	50	33,6	64.956	143.201	637
32	1 5/16	4	640	64	43	75.051	165.457	736
34	1 11/32	4 1/4	680	68	45,7	84.025	185.240	824
36	1 1/2	4 1/2	720	72	48,4	92.998	205.023	912
38	1 9/16	4 3/4	800	80	53,8	101.972	224.806	1.000
40	1 5/8	5	900	90	60,5	116.248	256.279	1.140
44	1 3/4	5 1/2	1.110	111	74,6	140.721	310.232	1.380
48	2	6	1.320	132	88,7	164.175	361.938	1.610
52	2 1/8	6 1/4	1.500	150	100,8	195.786	431.628	1.920
56	2 1/4	7	1.765	176,5	118,6	230.457	508.062	2.260

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
- 50% 1,6%

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	38.749	85.426	380
30	1 1/4	3 3/4	425	42,5	28,6	45.887	101.163	450
32	1 1/3	4	474	47,4	31,9	53.025	116.899	520
34	1 11/32	4 1/4	544	54,4	36,6	61.183	134.884	600
36	1 1/2	4 1/2	637	63,7	42,8	69.341	152.868	680
38	1 4/7	4 3/4	706	70,6	47,4	78.518	173.101	770
40	1 5/8	5	765	76,5	51,4	88.716	195.581	870
44	1 3/4	5 1/2	963	96,3	64,7	106.051	233.798	1.040
48	2	6	1.100	110	73,9	128.485	283.256	1.260
52	2 1/8	6 1/4	1.380	138	92,7	148.879	328.217	1.460
56	2 1/4	7	1.575	157,5	105,8	173.352	383.170	1.700

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
- 50% 1,6%

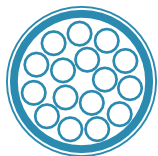
Applications



D-Tech WINCHLINE Plus

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	340	34	22,8	33.141	73.062	325
30	1 1/4	3 3/4	551	55,1	37	64.956	143.101	637
32	1 5/16	4	700	70	47	75.051	165.457	736
34	1 11/32	4 1/4	754	75,4	50,7	84.025	185.240	824
36	1 1/2	4 1/2	808	80,8	54,3	92.998	205.023	912
38	1 9/16	4 3/4	893	89,3	60	101.972	224.806	1.000
40	1 5/8	5	1.000	100	67,2	116.248	256.279	1.140
44	1 3/4	5 1/2	1.250	125	84	140.721	310.232	1.380
48	2	6	1.480	148	99,4	164.175	361.938	1.610
52	2 1/8	6 1/4	1.700	170	114,2	195.786	431.628	1.920
56	2 1/4	7	1.900	190	127,7	230.457	508.062	2.260

More diameters available by demand.

- ☑ Raw Material: HMWPE / Polyester
- ☑ Specific Gravity: 1,06
- ☑ Melting Point: 150°C / 265°C
- ☑ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties. Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	409	40,9	35,6	38.749	85.426	380
30	1 1/4	3 3/4	489	48,9	42,6	45.887	101.163	450
32	1 1/3	4	508	50,8	44,2	53.025	116.899	520
34	1 11/32	4 1/4	581	58,1	50,6	61.183	134.884	600
36	1 1/2	4 1/2	682	68,2	59,4	69.341	152.868	680
38	1 4/7	4 3/4	750	75	65,3	78.518	173.101	770
40	1 5/8	5	800	80	69,6	88.716	195.581	870
44	1 3/4	5 1/2	1.009	100,9	87,8	106.051	233.798	1.040
48	2	6	1.183	118,3	103	128.485	283.256	1.260
52	2 1/8	6 1/4	1.465	146,5	127,5	148.879	328.217	1.460
56	2 1/4	7	1.675	167,5	145,8	173.352	382.170	1.700

More diameters available by demand.

- ☑ Raw Material: HMWPE / Polyester
- ☑ Specific Gravity: 1,06
- ☑ Melting Point: 150°C / 265°C
- ☑ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

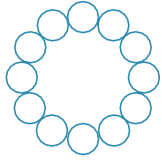
Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

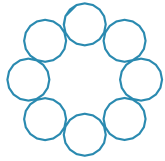
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
 - 25% 0,9%
 - 50% 1,6%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Stronger than steel wire of the same weight, it has proven to be a cost-saving replacement for wire rope in several applications. Its 8 strands plaited construction is smooth and non-rotational.



8 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling
- Very easy to splice

Applications

Mooring
Lines

Anchor
Line

Winch
Lines

Towing
and tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,8	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	399.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635
76	3	9 3/8	3.038	303,8	204,1	407.888	899.224	4.000
80	3 1/4	10	3.353	335,3	225,3	446.128	983.526	4.375
88	3 5/8	11	4.028	402,8	270,7	528.215	1.164.495	5.180
96	4	12	4.762	476,2	320	615.911	1.357.828	6.040
104	4 1/4	13	5.555	555,5	373,3	709.725	1.564.650	6.960
112	4 5/8	14	6.406	640,6	430,5	809.148	1.783.836	7.935
120	5	15	7.316	731,6	491,6	913.669	2.014.262	8.960
128	5 1/4	16	8.233	823,3	553,2	1.024.309	2.258.176	10.045
136	5 1/2	17	9.308	930,8	625,5	1.140.047	2.513.331	11.180

More diameters available by demand.

In accordance to ISO 10325:2018.

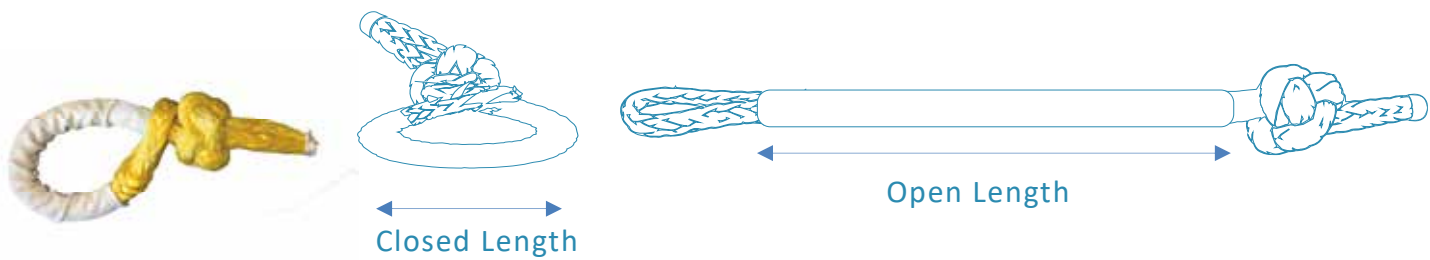
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
50% 1,6%

Soft Shackle

The Soft Shackle is designed to be a safe, lightweight and easy-to-use device, being a good replacement for steel shackles in tug applications. It is made from HMWPE fibers and protected by an impregnation that improves its overall performance. This Soft Shackle forms a closed loop with an easy-open eye and a stopper knot.



D-Tech 12 Soft Shackle	Diam.	Weight	L1		L2		L3	
	mm	kg/100m	kN	Ton	kN	Ton	kN	
D Tech with PES cover	20	23,2	570	85,3	836	131,8	1.292	
	22	28,1	675	101	990	156,1	1.530	
	24	33,1	780	116,7	1.144	180,3	1.768	
	26	38,4	900	134,6	1.320	208,1	2.040	
	28	44,5	1.020	152,6	1.496	235,8	2.312	
	30	50,6	1.155	172,8	1.694	267	2.618	
	32	57,5	1.305	195,2	1.914	301,7	2.958	

Aprox. Length Closed (mm): 500
Stated breaking loads are theoretical subject to a variation of +/-10%.
Recommended D/d ratio 3,5:1

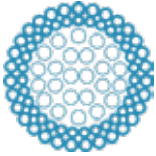


DEFENCE



Compos DB

Double braided rope made of high tenacity Polyester. It is constructed with a braided core, which supports most of the resistance, and a braided cover, in 16 strands which ensures protection and enhances resistance. Through this construction, we ensure longer fatigue life and greater resistance to friction, while maintaining its floating properties.



Double Braid



Advantages

- Excellent energy absorption
- Good abrasion and wear resistance even in wet conditions
- Excellent UV resistance
- High flexibility, non-kinking and non-rotating

Applications

Mooring

Towing

Anchorage

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
22	7/8	2 3/4	249	24,9	16,7	9.804	21.614	96
24	1	3	296	29,6	19,9	11.573	25.514	114
26	1 1/32	3 1/4	348	34,8	23,4	13.482	29.722	132
28	1 1/8	3 1/2	403	40,3	27,1	15.528	34.233	152
30	1 1/4	3 3/4	463	46,3	31,1	17.711	39.046	174
32	1 5/16	4	527	52,7	35,4	20.031	44.160	196
34	1 1/3	4 1/4	595	59,5	40	22.486	49.573	221
36	1 1/2	4 1/2	667	66,7	44,8	25.075	55.280	246
38	1 4/7	4 3/4	743	74,3	49,9	27.798	61.283	273
40	1 5/8	5	823	82,3	55,3	30.655	67.582	301
42	1 5/7	5 1/4	908	90,8	61	33.644	74.172	330
44	1 3/4	5 1/2	996	99,6	66,9	36.765	81.052	361
46	1 3/4	5 3/4	1.089	108,9	73,2	40.017	88.221	392
48	2	6	1.185	118,5	79,6	43.400	95.680	426
50	1 31/32	6 1/4	1.286	128,6	86,4	46.913	103.424	460
52	2 1/8	6 1/2	1.391	139,1	93,5	50.556	111.456	496
54	2 1/8	6 3/4	1.500	150	100,8	54.329	119.774	533
56	2 1/4	7	1.614	161,4	108,5	58.230	128.374	571
60	2 1/2	7 1/2	1.852	185,2	124,5	66.418	146.425	651
64	2 5/8	8	2.107	210,7	141,6	75.116	165.601	737
68	2 3/4	8 1/2	2.379	237,9	159,9	84.322	185.896	827
72	2 7/8	9	2.667	266,7	179,3	94.032	207.303	922
76	3	9 1/2	2.972	297,2	199,8	104.244	229.816	1.022
80	3 1/4	10	3.293	329,3	221,3	114.956	253.432	1.127

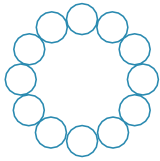
More diameters available by demand.

- ✓ Raw Material: Polyester / Polypropylene Multifilament (HT)
- ✓ Specific Gravity: 0,98 (floats)
- ✓ Melting Point: 150°C / 265°C

- ✓ Elongation at % of BS:
 - 25% 6,7%
 - 50% 11,4%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

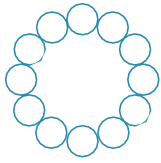
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
- 25% 0,9%
- 50% 1,6%

Berthing Rope

A 12 strands round plait line that combines the high tenacity, abrasion and wear resistance of polyester with Spun PP. This is a very special blend which, along with its unique construction that perfectly combines these two fibers, it gives this rope a superb handling and touch, highly appreciated by national marine defence fleets.



12 Strands



Advantages

- Superb handling and touch
- Good abrasion and wear resistance
- Low water absorption
- Flexible, non-kinking and non-rotating

Applications

Mooring
lines

Anchor
lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	340	34,0	22,8	9.920	21.869	97
26	1 1/32	3 1/4	405	40,5	27,2	11.610	25.595	114
28	1 1/8	3 1/2	470	47,0	31,6	13.300	29.321	130
30	1 1/4	3 3/4	540	54,0	36,3	15.205	33.521	149
32	1 5/16	4	610	61,0	41,0	17.110	37.720	168
34	1 11/32	4 1/4	685	68,5	46,0	19.075	42.052	187
36	1 1/2	4 1/2	760	76,0	51,1	21.040	46.384	206
38	1 9/16	4 3/4	855	85,5	57,5	23.720	52.293	233
40	1 5/8	5	950	95,0	63,8	26.400	58.201	259
44	1 3/4	5 1/2	1.150	115,0	77,3	30.960	68.254	304
48	2	6	1.360	136,0	91,4	36.500	80.467	358
52	2 1/8	6 1/2	1.600	160,0	107,5	42.620	93.959	418
56	2 1/4	7	1.850	185,0	124,3	48.720	107.407	478
60	2 1/2	7 1/2	2.120	212,0	142,5	54.280	119.665	532
64	2 5/8	8	2.420	242,0	162,6	63.110	139.131	619
68	2 3/4	8 1/2	2.740	274,0	184,1	70.850	156.195	695
72	2 7/8	9	3.060	306,0	205,6	78.590	173.258	771

More diameters available by demand.

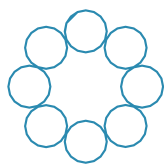
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Spun Polypropylene / Polyester (HT)
- ✓ Specific Gravity: 1,16
- ✓ Melting Point: 165°C / 265°C

- ✓ Elongation at % of BS:
 - 25% 3,5%
 - 50% 7,9%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Stronger than steel wire of the same weight, it has proven to be a cost-saving replacement for wire rope in several applications. Its 8 strands plaited construction is smooth and non-rotational.



8 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling
- Very easy to splice

Applications

Mooring
Lines

Anchor
Line

Winch
Lines

Towing
and tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
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48	2	6	1.255	125,5	84,3	181.000	399.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635
76	3	9 3/8	3.038	303,8	204,1	407.888	899.224	4.000
80	3 1/4	10	3.353	335,3	225,3	446.128	983.526	4.375
88	3 5/8	11	4.028	402,8	270,7	528.215	1.164.495	5.180
96	4	12	4.762	476,2	320	615.911	1.357.828	6.040
104	4 1/4	13	5.555	555,5	373,3	709.725	1.564.650	6.960
112	4 5/8	14	6.406	640,6	430,5	809.148	1.783.836	7.935
120	5	15	7.316	731,6	491,6	913.669	2.014.262	8.960
128	5 1/4	16	8.233	823,3	553,2	1.024.309	2.258.176	10.045
136	5 1/2	17	9.308	930,8	625,5	1.140.047	2.513.331	11.180

More diameters available by demand.

In accordance to ISO 10325:2018.

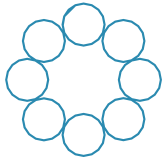
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
50% 1,6%

Berthing Rope

An 8 strands plaited rope that combines polyester's high tenacity, abrasion and wear resistance with traditional PP spun. This is a very special blend which, along with its unique construction that perfectly combines these two fibers, it gives this rope a superb handling and touch, highly appreciated by national marine defence fleets.



8 Strands



Advantages

- Superb handling and touch
- Good abrasion and wear resistance
- Low water absorption
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Anchor
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	340	34,0	22,8	9.920	21.869	97
26	1 1/32	3 1/4	405	40,5	27,2	11.610	25.595	114
28	1 1/8	3 1/2	470	47,0	31,6	13.300	29.321	130
30	1 1/4	3 3/4	540	54,0	36,3	15.205	33.521	149
32	1 5/16	4	610	61,0	41,0	17.110	37.720	168
36	1 1/2	4 1/2	760	76,0	51,1	21.040	46.384	206
40	1 5/8	5	950	95,0	63,8	26.400	58.201	259
44	1 3/4	5 1/2	1.150	115,0	77,3	30.960	68.254	304
48	2	6	1.360	136,0	91,4	36.500	80.467	358
52	2 1/8	6 1/2	1.600	160,0	107,5	42.620	92.959	418
56	2 1/4	7	1.850	185,0	124,3	48.720	107.407	478
60	2 1/2	7 1/2	2.120	212,0	142,5	54.280	119.665	532
64	2 5/8	8	2.420	242,0	162,6	63.110	139.131	619
68	2 3/4	8 1/2	2.740	274,0	184,1	70.850	156.195	695
72	2,875	9	3.060	306,0	205,6	78.590	173.258	771
80	3 1/4	10	3.780	378,0	254,0	96.360	212.434	945
88	3 5/8	11	4.570	457,0	307,1	115.540	254.718	1.133
96	4	12	5.450	545,0	366,2	136.250	300.375	1.336
104	4 1/4	13	6.400	640,0	430,1	158.050	348.435	1.550
112	4 5/8	14	7.400	740,0	497,2	179.850	396.495	1.764
120	5	15	8.500	850,0	571,2	207.100	456.570	2.031
128	5 1/4	16	9.640	964,0	647,8	234.350	516.645	2.298
136	5 1/2	17	10.930	1.093	734,4	264.325	582.727	2.592

More diameters available by demand.

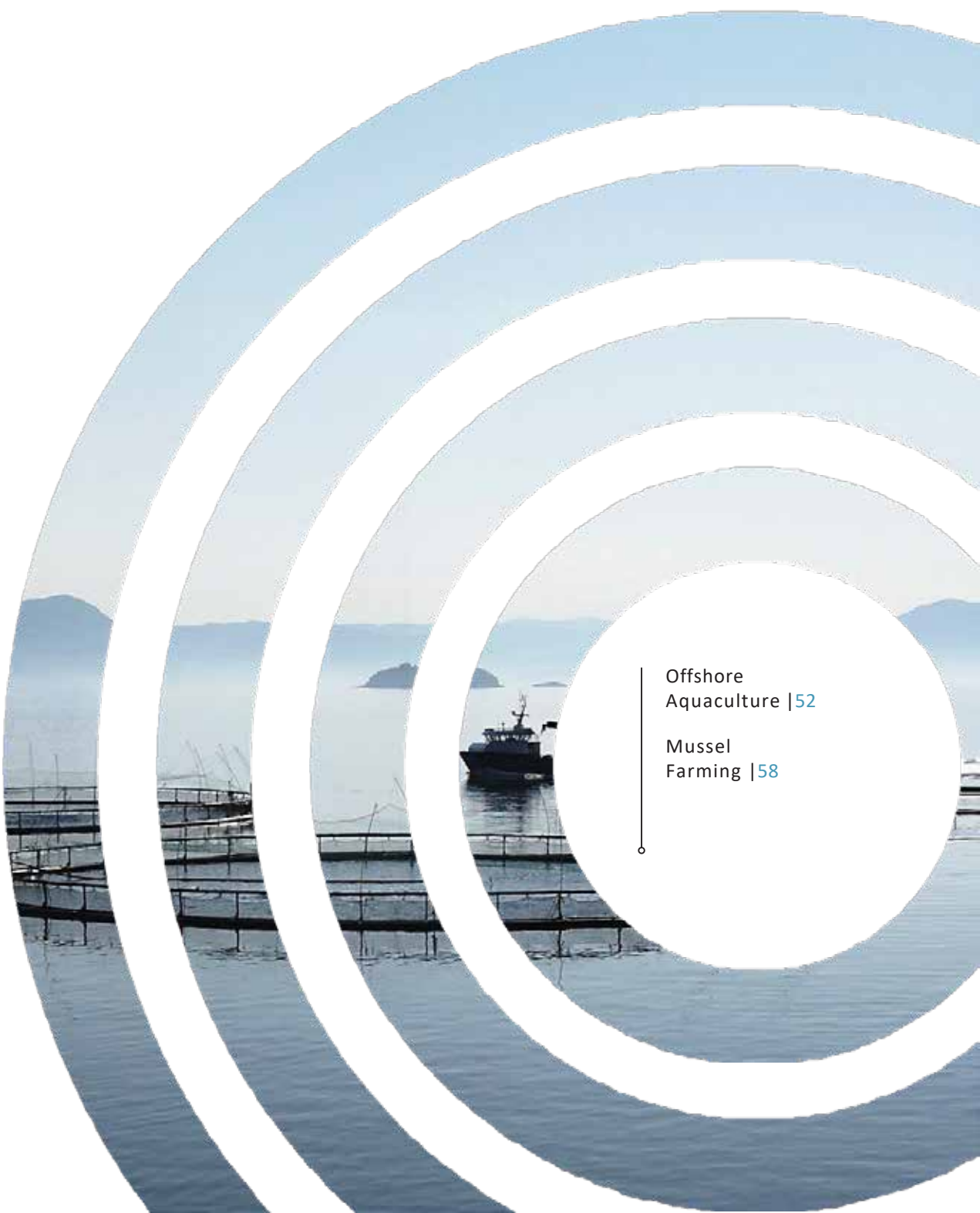
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Spun Polypropylene / Polyester (HT)
- ✓ Specific Gravity: 1,16
- ✓ Melting Point: 165°C / 265°C

- ✓ Elongation at % of BS:
25% 3,5%
50% 7,9%

Aquaculture

We always put ourselves at the service of our customers with our extensive practical experience and development of **new solutions**, supporting aquaculture systems worldwide.



Offshore
Aquaculture | [52](#)

Mussel
Farming | [58](#)



With the main mission of providing the market with innovative and tailor-made solutions, Cotesi supports each and every customer, facing with them the challenges that affect aquaculture production, as well as their profitability.

Our approach, represents to our customers a safe investment for the offshore aquaculture systems and mussel production industry.

In cooperation with our partners in this industry, we provide mooring systems made from NS9415 certified products.

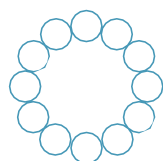
Our know-how at the service of aquaculture systems allows us to guarantee safety, performance and reliability.

OFFSHORE AQUACULTURE



Movflex Sinking

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with sinking properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.



12 Strands



Major Features

- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
Lines

Towing
lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	345	34,5	23,2	14.174	31.248	139
26	1 1/32	3 1/4	411	41,1	27,6	17.131	37.767	168
28	1 1/8	3 1/2	477	47,7	32,1	20.088	44.287	197
30	1 1/4	3 3/4	559	55,9	37,6	22.332	49.233	219
32	1,3125	4	623	62,3	41,9	26.003	57.326	255
34	1 11/32	4 1/4	706	70,6	47,4	29.266	64.519	287
36	1,5	4,5	789	78,9	53,0	32.529	71.713	319
38	1 9/16	4 3/4	879	87,9	59,1	36.149	79.694	354,5
40	1,625	5	969	96,9	65,1	39.769	87.674	390
44	1,75	5,5	1.178	117,8	79,2	47.723	105.209	468
48	2	6	1.406	140,6	94,5	59.160	130.423	580
52	2,125	6,5	1.650	165,0	110,9	68.748	151.561	674
56	2,25	7	1.920	192,0	129,0	79.254	174.722	777
60	2,5	7,5	2.200	220,0	147,8	90.066	198.558	883
64	2,625	8	2.500	250,0	168,0	102.000	224.868	1.000
68	2,75	8,5	2.820	282,0	189,5	114.240	251.852	1.120
72	2,875	9	3.160	316,0	212,3	127.500	281.085	1.250

More diameters available by demand.

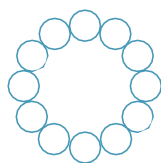
The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 0,99
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
 - 25 % 4,0%
 - 50 % 6,0%

Movflex Floating

Movflex is a composite rope that mixes high tenacity polyester yarns with high tenacity polyolefin yarns. This specific combination improves the rope breaking strength in a firm, round and non-rotational construction with floating properties. Adding to this, its double/triple twisted cover yarns, provide excellent abrasion and heat resistance, while maintaining a flexibility level that assures good handling.



12 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 38-40 % lighter than regular polyester ropes
- Very low water absorption
- Flexible and smooth, non-kinking and non-rotating
- Excellent UV resistance

Applications

Mooring
Lines

Towing
Lines

Stretchers

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	266	26,6	17,9	10.707	23.605	105
26	1 1/32	3 1/4	317	31,7	21,3	12.848	28.326	126
28	1 1/8	3 1/2	368	36,8	24,7	15.092	33.271	148
30	1 1/4	3 3/4	430	43,0	28,9	17.335	38.217	170
32	1 5/16	4	478	47,8	32,1	19.375	42.713	190
34	1 11/32	4 1/4	542	54,2	36,44	21.882	48.108	214
36	1 1/2	4 1/2	606	60,6	40,7	24.269	53.504	238
38	1 9/16	4 3/4	693	69,3	46,6	28.450	62.721	279
40	1 5/8	5	780	78,0	52,4	32.529	71.713	319
44	1 3/4	5 1/2	980	98,0	65,9	39.259	86.550	385
48	2	6	1.175	117,5	78,9	46.091	101.612	452
52	2 1/8	6 1/2	1.400	140,0	94,0	54.351	119.822	533
56	2 1/4	7	1.600	160,0	107,5	62.611	138.031	614
60	2 1/2	7 1/2	1.800	180,0	121,0	70.973	156.465	696
64	2 5/8	8	2.070	207,0	139,1	81.068	178.721	795
68	2 3/4	8 1/2	2.330	233,0	156,5	91.367	201.426	896
72	2 7/8	9	2.700	270,0	181,4	101.870	224.581	999

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

✓ Raw Material: Polyester / Mixed Polyolefins (HT)

✓ Specific Gravity: 0,99

✓ Melting Point: 265°C / 165°C

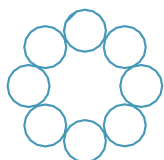
✓ Elongation at % of BS:

25% 4,0%

50% 6,0%

Movline Plus HBL

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer associated to an 8 strands plaited construction results on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use which also protects the inner fibers against abrasion.



8 Strands



Advantages

- High abrasion resistance
- High strength floating line
- No water absorption
- Good UV resistance
- Non-kinking and non-rotating

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	288	28,8	19,4	13.400	29.541	131
26	11/32	31/4	341	34,1	22,9	15.600	34.392	153
28	11/8	31/2	394	39,4	26,5	17.800	39.242	175
30	11/4	33/4	453	45,3	30,4	20.250	44.643	199
32	15/16	4	511	51,1	34,3	22.700	50.044	223
36	11/2	41/2	641	64,1	43,1	28.300	62.390	278
40	1 5/8	5	791	79,1	53,2	34.900	76.940	342
44	1 3/4	5 1/2	977	97,7	65,7	41.700	91.931	409
48	2	6	1.145	114,5	76,9	48.900	107.804	480
52	2 1/8	6 1/2	1.340	134	90	56.500	124.559	554
56	2 1/4	7	1.560	156	104,8	64.900	143.078	636

More diameters available by demand.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 2,8%
- 50% 5,5%

Applications

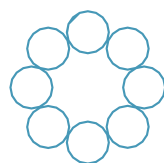
Mooring Lines

Anchor Lines

Tug and Towing Lines

Movline Plus

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer associated to an 8 strands plaited construction results on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion.



8 Strands



Advantages

- High abrasion resistance
- High strength floating line
- No water absorption
- Good UV resistance
- Non-kinking and non-rotating

Applications

Mooring Lines

Anchor Lines

Tug and Towing Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	10.605	23.380	104
26	1 1/32	3 1/4	306	30,6	20,6	12.339	27.202	121
28	1 1/8	3 1/2	355	35,5	23,9	14.174	31.248	139
30	1 1/4	3 3/4	408	40,8	27,4	16.112	35.519	158
32	1 5/16	4	464	46,4	31,2	18.253	40.240	179
36	1 1/2	4 1/2	587	58,7	39,4	22.842	50.357	224
40	1 5/8	5	725	72,5	48,7	27.940	61.597	274
44	1 3/4	5 1/2	877	87,7	58,9	33.345	73.512	327
48	2	6	1.040	104	69,9	39.259	86.550	385
52	2 1/8	6 1/2	1.220	122	82	45.683	100.713	448
56	2 1/4	7	1.420	142	95,4	52.414	115.550	514
60	2 1/2	7 1/2	1.630	163	109,5	59.450	131.062	583
64	2 5/8	8	1.860	186	125	66.996	147.698	657
68	2 3/4	8 1/2	2.100	210	141,1	75.153	165.682	737
72	2 7/8	9	2.350	235	157,9	83.617	184.341	820
80	3 1/4	10	2.900	290	194,9	101.462	223.682	995
88	3 5/8	11	3.510	351	235,9	121.347	267.519	1.190
96	4	12	4.170	417	280,2	142.761	314.728	1.400
104	4 1/4	13	4.900	490	329,3	165.195	364.186	1.620

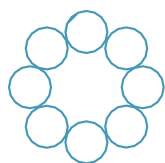
More diameters available by demand.

In accordance to ISO 10579:2009.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 2,8%
- 50% 5,5%

Deckline

Deckline ropes are a special economic blend that explores the abrasion resistance and tenacity of our Movline Plus bi-polymer. This cost-effective floating rope has good wear and abrasion resistance given by the outer Movline Plus cover and high breaking resistance when compared to other traditional PP ropes.



8 Strands



Advantages

- Cost effective compared to traditional PP ropes
- High abrasion resistance
- Good breaking strength
- Excellent UV resistance
- Non-kinking and non-rotating

Applications

Mooring
Lines

Tug and
Towing
lines

Certified by EIC, for aquaculture applications, to NS 9415 standard and in compliance with NYTEK23-regulation.

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	9.014	19.873	88
26	11/32	31/4	306	30,6	20,6	10.488	23.121	103
28	11/8	31/2	355	35,5	23,9	12.048	26.561	118
30	11/4	33/4	408	40,8	27,4	13.695	30.191	134
32	15/16	4	464	46,4	31,2	15.515	34.204	152
36	11/2	4 1/2	587	58,7	39,4	19.415	42.803	190
40	15/8	5	725	72,5	48,7	23.749	52.357	233
44	13/4	51/2	877	87,7	58,9	28.343	62.485	278
48	2	6	1.040	104	69,9	33.370	73.568	327
52	21/8	6 1/2	1.220	122	82	38.831	85.606	381
56	21/4	7	1.420	142	95,4	44.552	98.218	437
60	21/2	71/2	1.630	163	109,5	50.532	111.403	496
64	25/8	8	1.860	186	125	56.946	125.543	558
68	23/4	81/2	2.100	210	141,1	63.880	140.830	626
72	2 7/8	9	2.350	235	157,9	71.074	156.690	697
80	31/4	10	2.900	290	194,9	86.243	190.130	846
88	35/8	11	3.510	351	235,9	103.145	227.391	1.011
96	4	12	4.170	417	280,2	121.347	267.519	1.190
104	41/4	13	4.900	490	329,3	140.415	309.558	1.377
112	4 5/8	14	5.680	568	381,7	162.951	359.240	1.598
120	5	15	6.520	652	438,1	184.620	407.011	1.811
128	5 1/4	16	7.420	742	498,6	209.756	462.426	2.057
136	5 1/2	17	8.380	838	563,1	235.759	519.751	2.312

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Mixed Polyolefin
- ✓ Specific Gravity: 0,93
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
 - 25% 2,8%
 - 50% 5,5%

Movline Plus HBL

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer and its balanced twisted construction result on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion.



3 / 4 Strands



Advantages

- High abrasion and wear resistance
- High strength floating line
- No water absorption
- Good UV resistance

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	288	28,8	19,4	13.400	29.541	131
26	1 1/32	3 1/4	341	34,1	22,9	15.600	34.392	153
28	1 1/8	3 1/2	394	39,4	26,5	17.800	39.242	175
30	1 1/4	3 3/4	453	45,3	30,4	20.250	44.643	199
32	1 5/16	4	511	51,1	34,3	22.700	50.044	223
36	1 1/2	4 1/2	641	64,1	43,1	28.300	62.390	278
40	1 5/8	5	791	79,1	53,2	34.900	76.940	342
44	1 3/4	5 1/2	977	97,7	65,7	41.700	91.931	409

More diameters available by demand.

- ☑ Raw Material: Mixed Polyolefin (HT)
- ☑ Specific Gravity: 0,94 (floats)
- ☑ Melting Point: 165°C
- ☑ Elongation at % of BS: 25% 6,0%
50% 11,5%

Applications

Tie up and
Mooring
Lines

General
Deck
Lines

Towing
Lines

Certified by EIC, for aquaculture applications, to NS 9415 standard and in compliance with NYTEK23-regulation.

Movline Plus

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer and its balanced twisted construction result on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion.



3 / 4 Strands



Advantages

- High abrasion and wear resistance
- High strength floating line
- No water absorption
- Good UV resistance

Applications

Tie up and
Mooring
Lines

General
Deck
Lines

Towing
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	16	1,6	1,1	689	1.520	7
8	5/16	1	29	2,9	1,9	1.193	2.630	12
10	3/8	1 1/4	45	4,5	3	1.835	4.047	18
12	1/2	1 1/2	65	6,5	4,4	2.590	5.710	25
14	9/16	1 3/4	88	8,8	5,9	3.467	7.643	34
16	5/8	2	116	11,6	7,8	4.436	9.779	43
18	3/4	2 1/4	147	14,7	9,9	5.557	12.252	54
20	13/16	2 1/2	181	18,1	12,2	6.751	14.882	66
22	7/8	2 3/4	219	21,9	14,7	8.066	17.782	79
24	1	3	261	26,1	17,5	9.463	20.862	93
26	1 1/32	3 1/4	306	30,6	20,6	10.911	24.054	107
28	1 1/8	3 1/2	355	35,5	23,9	12.543	27.651	123
30	1 1/4	3 3/4	408	40,8	27,4	14.276	31.473	140
32	1 5/16	4	464	46,4	31,2	16.010	35.295	157
34	1 11/32	4 1/4	525	52,5	35,3	17.845	39.341	175
36	1 1/2	4 1/2	587	58,7	39,4	19.783	43.612	194
38	1 9/16	4 3/4	656	65,6	44,1	21.822	48.108	214
40	1 5/8	5	725	72,5	48,7	23.861	52.605	234
44	1 3/4	5 1/2	877	87,7	58,9	28.246	62.271	277

More diameters available by demand.

In accordance to ISO 10572:2009.

- ☑ Raw Material: Mixed Polyolefin (HT)
- ☑ Specific Gravity: 0,94
- ☑ Melting Point: 165°C
- ☑ Elongation at % of BS: 25% 6,0%
50% 11,5%

MUSSEL FARMING



Deckline

Deckline ropes are a special economic line that combines the abrasion resistance and tenacity of our Movline Plus bi-polymer fiber. This cost-effective floating rope has good wear and abrasion resistance given by the outer Movline cover, and higher breaking resistance when compared to other traditional PP ropes.



3 / 4 Strands

Advantages

- Cost effective compared to traditional PP
- High abrasion resistance
- Good breaking strength
- Excellent UV resistance

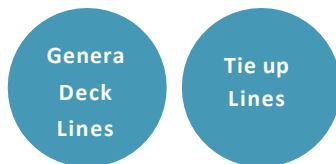


Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	8.056	17.760	79
26	1 1/32	3 1/4	306	30,6	20,6	9.279	20.457	91
28	1 1/8	3 1/2	355	35,5	23,9	10.707	23.605	105
30	1 1/4	3 3/4	408	40,8	27,4	12.135	26.752	119
32	1 5/16	4	464	46,4	31,2	13.664	30.124	134
34	1 11/32	4 1/4	525	52,5	35,3	15.194	33.496	149
36	1 1/2	4 1/2	587	58,7	39,4	16.825	37.093	165
38	1 9/16	4 3/4	656	65,6	44,1	18.559	40.915	182
40	1 5/8	5	725	72,5	48,7	20.292	44.736	199
44	1 3/4	5 1/2	877	87,7	58,9	23.963	52.829	235
34	1 11/32	4 1/4	525	52,5	35,3	15.194	33.496	149

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

Applications



- ✓ Raw Material: Mixed Polyolefin
- ✓ Specific Gravity: 0,93 (floats)
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 2,8%
- ✓ Elongation at % of BS: 50% 5,5%

Certified by EIC, for aquaculture applications, to NS 9415 standard and in compliance with NYTEK23-regulation.

Mussel Ropes

Cotesi Mussel Ropes are made from high tenacity polypropylene. A self-developed rope manufacturing system creates a fuzzy surface that enhances its capability for spat collection.



3 / 4 Strands

Advantages

- Fuzzy surface for greater spat collection
- Excellent UV Resistance

Applications



Diameter		Size Circ.	Weight		Breaking Load		
mm	Inches	Inches	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
8	5/16	1	3	2	742	1.636	8
10	3/8	1 1/8	4,5	3	1.092	2.407	11
12	1/2	1 1/2	6,5	4,4	1.540	3.395	16
14	9/16	1 3/4	9	6	2.135	4.707	29
16	5/8	2	11,5	7,7	2.639	5.818	27
18	3/4	2 1/4	14,8	9,9	3.360	7.407	34
20	1 3/16	2 1/2	18	12,1	4.060	8.951	41
22	7/8	2 3/4	22	14,8	4.872	10.741	50
24	1	3	26	17,5	5.691	12.546	58

More diameters available by demand.

Tolerance on weights: $\pm 5\%$

- ✓ Raw Material: Polypropylene (HT)
- ✓ Specific Gravity: 0,91 (floats)
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6,5%
- ✓ Elongation at % of BS: 50% 12,0%

Fishing

Cotesi has an experience built in time through human contact and with the **knowledge** of those who make the sea their daily job.

For more than 50 years, our goal is to seek the best products and solutions for the fishing industry.



Ropes | 62

Nets | 75

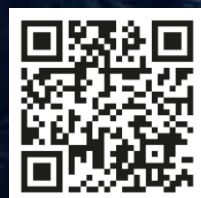


Our ropes are designed to be strong, easy to handle, and built to last. Made to withstand the demanding conditions of the marine environment, they offer safety and reliability over time.

Cotesi fishing nets are tailored to the specific needs of each customer. Combining efficiency and durability, they help improve catch performance while minimizing environmental impact. When out at sea, our nets deliver consistent, dependable results.

Our close contact with those who make fishing their daily life and the continuous investment in research and development allows us to deliver solutions that support the productivity and profitability of our partners worldwide. We believe that simple, well-made, and long-lasting solutions are key to success in fishing.

ROPES



D-Tech WINCHLINE

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMPE. Also available with PES & PE Jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
		Circ.						
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	38.749	85.426	380
30	1 1/4	3 3/4	425	42,5	28,6	45.887	101.163	450
32	1 1/3	4	474	47,4	31,9	53.025	116.899	520
34	1 11/32	4 1/4	544	54,4	36,6	61.183	134.884	600
36	1 1/2	4 1/2	637	63,7	42,8	69.341	152.868	680
38	1 4/7	4 3/4	706	70,6	47,4	78.518	173.101	770
40	1 5/8	5	765	76,5	51,4	88.716	195.581	870
44	1 3/4	5 1/2	963	96,3	64,7	106.051	233.798	1.040
48	2	6	1.100	110	73,9	128.485	283.256	1.260
52	2 1/8	6 1/4	1.380	138	92,7	148.879	328.217	1.460
56	2 1/4	7	1.575	157,5	105,8	173.352	383.170	1.700

More diameters available by demand.

- ☑ Raw Material: HMWPE
- ☑ Specific Gravity: 0,98
- ☑ Melting Point: 150°C

- ☑ Elongation at % of BS:
25% 0,9%
- 50% 1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties. Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE Jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
		Circ.						
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	409	40,9	35,6	38.749	85.426	380
30	1 1/4	3 3/4	489	48,9	42,6	45.887	101.163	450
32	1 1/3	4	508	50,8	44,2	53.025	116.899	520
34	1 11/32	4 1/4	581	58,1	50,6	61.183	134.884	600
36	1 1/2	4 1/2	682	68,2	59,4	69.341	152.868	680
38	1 4/7	4 3/4	750	75	65,3	78.518	173.101	770
40	1 5/8	5	800	80	69,6	88.716	195.581	870
44	1 3/4	5 1/2	1.009	100,9	87,8	106.051	233.798	1.040
48	2	6	1.183	118,3	103	128.485	283.256	1.260
52	2 1/8	6 1/4	1.465	146,5	127,5	148.879	328.217	1.460
56	2 1/4	7	1.675	167,5	145,8	173.352	382.170	1.700

More diameters available by demand.

- ☑ Raw Material: HMWPE / Polyester
- ☑ Specific Gravity: 1,06
- ☑ Melting Point: 150°C / 265°C

- ☑ Elongation at % of BS:
25% 0,9%
- 50% 1,6%

Applications

Mooring
Lines

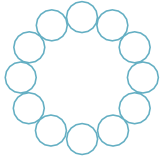
Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

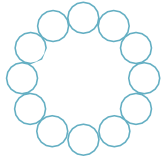
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
 - 25% 0,9%
 - 50% 1,6%

H-Force

Made from HMWPE fibers and protected by a self-unique Pro-Tech impregnation that improves its abrasion resistance. Using a torque-free 12 strands braided construction, H-Force is stronger than steel wire of the same weight and is a cost-saving replacement for wire rope and other conventional HMWPE ropes in several applications.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.		Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN	
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40	
8	1/3	1	40	4	2,7	7.036	15.512	69	
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105	
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150	
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200	
16	5/8	2	152	15,2	10,2	26.003	57.326	255	
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315	
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380	
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450	
24	1	3	331	33,1	22,2	53.025	116.899	520	
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600	
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685	
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775	
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865	
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965	
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070	
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175	
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285	
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525	
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775	
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045	
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330	
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635	
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950	
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285	
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635	

More diameters available by demand.

In accordance to ISO 10325:2018.

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
50% 1,6%

NTech

A 12 strands high tenacity braided polyamide rope specially designed for pelagic nets and with identification colours for better handling of the trawl, that don't fade in use. Its self unique coating gives it firmness and increases its wear and abrasion resistance.



Diameter	Weight		Runnage	Breaking Load		
	mm	gr/m	Kg/100m	m/Kg	kgf	lbf
6	36	3,6	27,7	1.500	3.306	14,7
8	52	5,2	19,2	2.100	4.630	20,6
10	81	8,1	12,3	3.300	7.275	32,4
12	111	11,1	9	4.100	9.039	40,2
14	127	12,7	7,9	5.600	12.346	24,9
16	167	16,7	6	7.200	15.873	70,6
20	293	29,3	3,4	11.000	24.250	107,8
24	421	42,1	2,4	15.300	33.730	150

Tolerance in weights: $\pm 5\%$

Advantages

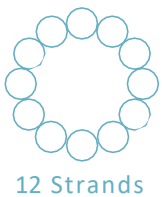
- High Tenacity Polyamide
- Nonfading identifications colours
- Unique coating

Applications

Production of pelagic nettings

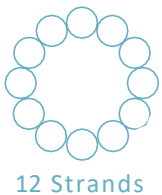
D-Tech Headline

High tenacity HMWPE 12 strands braided rope with stiff core, specifically designed for pelagic trawls headlines. Its self unique impregnation enhances abrasion resistance and the stiff core helps keeping the shape of the trawl resulting on a better opening.



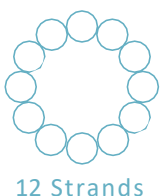
D-Tech BNS

HMWPE double braided rope with an inner plastic tube core. Cotesi self unique impregnation protects the outer cover against abrasion and the inner plastic tube assures stiffness and roundness of the rope without increasing much to diameter. D-Tech BNS is a strong rope that has been designed for the use in mid-water trawls bridles and sweepelines.



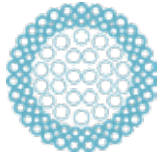
D-Tech SB

D-Tech SB is a cable rope that has a HMWPE core covered by a stiff plastic tube that improves abrasion resistance and gives it necessary stiffness for the use in mid-water trawls short bridles and frame lines. Stiffness, strength and lightness of D-Tech SB cable, make it a safe replacement of steel wire for these applications.



Stripe Line

A double braided rope that has a polyamide core for high tenacity and a polyethylene outer cover that protects it and gives it firmness. This rope used in the front meshes of mid water trawls production is fabricated in 4 different colours that when applied to the trawl defines its correct position, making shoot and handling on board easier.



Double Braid



Diameter	Weight		Runnage	Breaking Load		
	mm	gr/m	Kg/100m	m/Kg	kgf	lbf
BLUE, GREEN, RED or YELLOW STRIPE (UNLEADED)						
8	46,2	4,6	21,6	1.100	2.425	11
10	79,5	8	12,6	1.900	4.189	18,6
12	97,2	9,7	10,3	2.300	5.071	22,6
14	127	12,7	7,9	3.000	6.614	29,4
16	166,5	16,7	6	3.900	8.598	38,2
GREEN and RED STRIPES (LEADED)						
10	79,5	8	12,6	1.900	4.189	18,6
12	119,5	12	8,4	2.300	5.071	22,6
14	158	15,8	6,3	3.000	6.614	29,4
16	197,5	19,8	5	3.900	8.598	38,2
YELLOW STRIPE W/LEAD (LEADED)						
10	110,5	11,1	9	1.900	4.189	18,6
12	132,2	13,2	7,6	2.300	5.071	22,6
14	174,5	17,5	5,7	3.000	6.614	29,4
16	214	21,4	4,7	3.900	8.598	38,2

Advantages

- High Tenacity Polyamide Core
- Leaded and Unleaded
- Unique coating

Applications

Production of pelagic nettings

Tolerance in weights: $\pm 5\%$

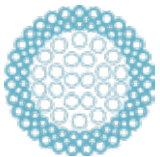
The technical characteristics stated are the result of a Cotesi development and are strictly indicative.

We reserve the right to change them without prior notice.

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

Sideline Lead

A double braided rope that has a polyethylene outer cover and an internal core of polyamide and lead for faster sinking. The outer polyethylene braided construction gives it firmness without taking it the necessary smoothness and flexibility for a good handling, preventing entanglement and allowing higher protection and adjustment of PE/PA Stripe ropes, reducing assembly time and on board repairing.

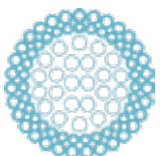


Double Braid



Sideline

A double braided rope that has a polyethylene outer cover and a polyamide internal core. The outer polyethylene braided construction gives it firmness without taking it the necessary smoothness and flexibility for a good handling, preventing entanglement and allowing higher protection and adjustment of PE/PA Stripe ropes, reducing assembly time and on board repairing.



Double Braid



Movline Plus

Movline Plus is an extremely strong and high tenacity bi-polymer composite fiber extruded on a custom-built extrusion process. Its gripping capability is enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion increasing the rope lifetime. The rope is especially suitable for vessel mooring and also aquaculture cages mooring. Movline Plus are floating ropes and do not absorb water, making them very easy to handle and work with. Available in 12 strands, 8 strands, 4 strands and 3 strands.



8 Strands



Advantages

- High abrasion resistance
- High strength floating line
- No water absorption
- Good UV resistance
- Non-kinking and non-rotating

Applications

Mooring
Lines

Anchor
Lines

Tug and
Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	261	26,1	17,5	10.605	23.380	104
26	1 1/32	3 1/4	306	30,6	20,6	12.339	27.202	121
28	1 1/8	3 1/2	355	35,5	23,9	14.174	31.248	139
30	1 1/4	3 3/4	408	40,8	27,4	16.112	35.519	158
32	1 5/16	4	464	46,4	31,2	18.253	40.240	179
36	1 1/2	4 1/2	587	58,7	39,4	22.842	50.357	224
40	1 5/8	5	725	72,5	48,7	27.940	61.597	274
44	1 3/4	5 1/2	877	87,7	58,9	33.345	73.512	327
48	2	6	1.040	104	69,9	39.259	86.550	385
52	2 1/8	6 1/2	1.220	122	82	45.683	100.713	448
56	2 1/4	7	1.420	142	95,4	52.414	115.550	514
60	2 1/2	7 1/2	1.630	163	109,5	59.450	131.062	583
64	2 5/8	8	1.860	186	125	66.996	147.698	657
68	2 3/4	8 1/2	2.100	210	141,1	75.153	165.682	737
72	2 7/8	9	2.350	235	157,9	83.617	184.341	820
80	3 1/4	10	2.900	290	194,9	101.462	223.682	995
88	3 5/8	11	3.510	351	235,9	121.347	267.519	1.190
96	4	12	4.170	417	280,2	142.761	314.728	1.400
104	4 1/4	13	4.900	490	329,3	165.195	364.186	1.620
112	4 5/8	14	5.680	568	381,7	191.707	422.635	1.880
120	5	15	6.520	652	438,1	217.200	478.837	2.130
128	5 1/4	16	7.420	742	498,6	246.772	544.031	2.420
136	5 1/2	17	8.380	838	563,1	277.364	611.472	2.720

More diameters available by demand.

In accordance to ISO 10572:2009

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

✓ Raw Material: Mixed Polyolefin (HT)

✓ Specific Gravity: 0,94

✓ Melting Point: 165°C

✓ Elongation at % of BS:

25% 2,8%

50% 5,5%

Polyester

The smoothness and high tenacity characteristics of polyester are empowered by a construction enhancing its excellent abrasion and high heat resistance, creating a durable high tenacity rope with low elongation and excellent fatigue life. Polyester ropes do not absorb water, so they neither harden nor lose strength when wet. Available in 12 strands, 8 strands, 4 strands and 3 strands.



3 / 4 Strands

Advantages

- High heat and abrasion resistance
- High strength and low working elongation
- Excellent UV resistance
- Smooth and flexible

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	27,3	2,7	1,8	612	1.349	6
8	5/16	1	48,5	4,9	3,3	1.081	2.383	10,6
10	3/8	1 1/4	75,8	7,6	5,1	1.632	3.597	16
12	1/2	1 1/2	109	10,9	7,3	2.284	5.036	22,4
14	9/16	1 3/4	149	14,9	10	3.059	6.744	30
16	5/8	2	194	19,4	13	4.079	8.992	40
18	3/4	2 1/4	246	24,6	16,5	5.099	11.240	50
20	13/16	2 1/2	303	30,3	20,4	6.118	13.488	60
22	7/8	2 3/4	367	36,7	24,7	7.240	15.961	71
24	1	3	437	43,7	29,4	8.668	19.109	85
26	1 1/32	3 1/4	512	51,2	34,4	10.197	22.481	100
28	1 1/8	3 1/2	594	59,4	39,9	12.033	26.527	118
30	1 1/4	3 3/4	682	68,2	45,8	13.460	29.674	132
32	1 5/16	4	776	77,6	52,1	15.296	33.721	150
36	1 1/2	4 1/2	982	98,2	66	19.375	42.713	190
40	1 5/8	5	1.210	121	81,3	24.065	53.054	236
44	1 3/4	5 1/2	1.470	147	98,8	28.552	62.946	280

More diameters available by demand.

In accordance to ISO 1141:2021.

- ✓ Raw Material: Polyester (HT)
- ✓ Specific Gravity: 1,38
- ✓ Melting Point: 265°C
- ✓ Elongation at % of BS: 25% 4%
- ✓ Elongation at % of BS: 50% 8%

Polyamide

Polyamide ropes provide high breaking strengths while its high elongation works as an excellent energy absorber. Its very good abrasion and heat resistance are enhanced by a twisted balanced construction - even in wet conditions - while the quality of fibers ensure a perfect twist and lay tension-reducing natural shrinkage in use. Available in 12 strands, 8 strands, 4 strands and 3 strands.



3 / 4 Strands

Advantages

- Good abrasion and wear resistance even in wet conditions
- Excellent shock mitigation
- Good UV resistance
- Flexible and smooth construction

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	22,2	2,2	1,5	816	1.798	8
8	5/16	1	39,5	4	2,7	1.428	3.147	14
10	3/8	1 1/4	61,7	6,2	4,1	2.162	4.766	21,2
12	1/2	1 1/2	88,8	8,9	6	3.059	6.744	30
14	9/16	1 3/4	121	12,1	8,1	4.079	8.992	40
16	5/8	2	158	15,8	10,6	5.099	11.240	50
18	3/4	2 1/4	200	20	13,4	6.424	14.163	63
20	13/16	2 1/2	247	24,7	16,6	8.158	17.984	80
22	7/8	2 3/4	299	29,9	20,1	9.687	21.357	95
24	1	3	355	35,5	23,9	11.421	25.178	112
26	1 1/32	3 1/4	417	41,7	28	12.747	28.101	125
28	1 1/8	3 1/2	484	48,4	32,5	15.296	33.721	150
30	1 1/4	3 3/4	555	55,5	37,3	17.335	38.217	170
32	1 5/16	4	632	63,2	42,5	19.375	42.713	190
36	1 1/2	4 1/2	800	80	53,8	24.065	53.054	236
40	1 5/8	5	987	98,7	65,3	30.592	67.442	300
44	1 3/4	5 1/2	1.190	119	80	36.200	79.806	355

More diameters available by demand.

In accordance to ISO 1140:2021.

- ✓ Raw Material: Polyamide
- ✓ Specific Gravity: 1,14
- ✓ Melting Point: 260°C
- ✓ Elongation at % of BS: 25% 9,5%
- ✓ Elongation at % of BS: 50% 16,5%

Movflex Sinking

Movflex is a special composite rope that blends high tenacity polyester yarns with high tenacity polyolefin yarns. This distinct combination gives it excellent fatigue properties when compared to an all polyester rope but with less handling weight. Constructed with double/triple twisted cover yarns, this rope has excellent abrasion and heat resistance, whilst the polyester combination provides it with flexibility and smoothness. Also available in 12 strands and 8 strands.



3 / 4 Strands



Advantages

- Exceptional abrasion and wear resistance even in wet conditions
- 18-20 % lighter than regular polyester ropes
- Low water absorption
- Flexible and smooth
- Excellent UV resistance

Applications



Diameter		Size Circ.		Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN	
6	1/4	3/4	20	2	1,3	714	1.574	7	
8	5/16	1	38	3,8	2,6	1.326	2.922	13	
10	3/8	1 1/4	55	5,5	3,7	2.039	4.496	20	
12	1/2	1 1/2	80	8	5,4	2.957	6.519	29	
14	9/16	1 3/4	109	10,9	7,3	3.977	8.767	39	
16	5/8	2	141	14,1	9,5	5.201	11.465	51	
18	3/4	2 1/4	178	17,8	12	6.526	14.388	64	
20	13/16	2 1/2	221	22,1	14,9	8.158	17.984	80	
22	7/8	2 3/4	268	26,8	18	9.789	21.581	96	
24	1	3	311	31,1	20,9	11.829	26.077	116	
26	1 1/32	3 1/4	370	37	24,9	13.664	30.124	134	
28	1 1/8	3 1/2	429	42,9	28,8	15.500	34.171	152	
30	1 1/4	3 3/4	503	50,3	33,8	17.437	38.442	171	
32	1 5/16	4	561	56,1	37,7	19.579	43.163	192	
34	1 11/32	4 1/4	635	63,5	42,7	21.924	48.333	215	
36	1 1/2	4 1/2	710	71	47,7	24.371	53.729	239	
38	1 9/16	4 3/4	791	79,1	53,2	26.921	59.349	264	
40	1 5/8	5	872	87,2	58,6	29.368	64.744	288	
44	1 3/4	5 1/2	1.060	106	71,2	35.078	77.333	344	

More diameters available by demand.

The technical characteristics stated are the result of a Cotesi development and are strictly indicative. We reserve the right to change them without prior notice. Tolerance in weights: $\pm 5\%$. Indicated breaking loads do not include any reduction in case of a rope with eye-spliced terminations. Produced and tested in accordance to the latest ISO standards.

- ✓ Raw Material: Polyester / Mixed Polyolefins (HT)
- ✓ Specific Gravity: 1,10
- ✓ Melting Point: 265°C / 165°C

- ✓ Elongation at % of BS:
- 25% 4,5%
- 50% 7%

Movline Plus

Movline Plus ropes are made from a high tenacity composite fiber extruded on a custom-built extrusion process. This extremely strong bi-polymer and its balanced twisted construction result on a rope with good wear resistance and exceptional gripping capabilities that are enhanced by the outer fuzzy surface developed in use, which also protects the inner fibers against abrasion.



3 / 4 Strands



Advantages

- High abrasion and wear resistance
- High strength floating line
- No water absorption
- Good UV resistance

Applications

Tie-up and
Mooring
Lines

General
Deck
Lines

Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3 1/2	16	1,6	1,1	689	1.520	7
8	5/16	3 3/4	29	2,9	1,9	1.193	2.630	12
10	3/8	4	45	4,5	3	1.835	4.047	18
12	1/2	4 1/2	65	6,5	4,4	2.590	5.710	25
14	9/16	5	88	8,8	5,9	3.467	7.643	34
16	5/8	5 1/2	116	11,6	7,8	4.436	9.779	43
18	3/4	6	147	14,7	9,9	5.557	12.252	54
20	13/16	3	181	18,1	12,2	6.751	14.882	66
22	7/8	3 1/4	219	21,9	14,7	8.066	17.782	79
24	1	3	261	26,1	17,5	9.463	20.862	92,8
26	1 1/32	3 1/4	306	30,6	20,6	10.911	24.054	107
28	1 1/8	3 1/2	355	35,5	23,9	12.543	27.651	123
30	1 1/4	3 3/4	408	40,8	27,4	14.276	31.473	140
32	1 5/16	4	464	46,4	31,2	16.010	35.295	157
34	1 11/32	4 1/4	525	52,5	35,3	17.845	39.341	175
36	1 1/2	4 1/2	587	58,7	39,4	19.783	43.612	194
38	1 9/16	4 3/4	656	65,6	44,1	21.822	48.108	214
40	1 5/8	5	725	72,5	48,7	23.861	52.605	234
44	1 3/4	5 1/2	877	87,7	58,9	28.246	62.271	277
48	2	6	1.040	104	69,9	33.141	73.062	325
52	2 1/8	6 1/2	1.220	122	82	38.341	84.527	376
56	2 1/4	7	1.420	142	95,4	43.746	96.442	429
60	2 1/2	7 1/2	1.630	163	109,5	49.558	109.256	486
64	2 5/8	8	1.860	186	125	55.473	122.294	544
68	2 3/4	8 1/2	2.100	210	141,1	62.101	136.907	609
72	2 7/8	9	2.350	235	157,9	69.035	152.194	677
80	3 1/4	10	2.900	290	194,9	83.413	183.891	818
90	3 9/16	11 1/8	3.750	375	252	107.886	237.845	1.058

More diameters available by demand.

In accordance to ISO 10572:2009.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
25% 6%
50% 11,5%

Movspun

The appearance and construction of old ropes made from natural fibres, with the strength, abrasion and wear resistance of synthetic materials. This polypropylene floating line has a smooth and fine touch and its hairy surface enhances wear resistance to this light weight rope, very easy to handle and easy to splice.



3 / 4 Strands



Advantages

- Smoothness and exceptional touch
- Good abrasion and wear resistance
- Floating, no water absorption
- Good UV resistance
- Flexible, non-kinking and non-rotating

Applications

Mooring
Lines

Towing
Lines

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	16,3	1,6	1,1	604	1.331	5,9
8	5/16	1	28,9	2,9	1,9	1.030	2.271	10,1
10	3/8	1 1/4	45,2	4,5	3	1.570	3.462	15,4
12	1/2	1 1/2	65,1	6,5	4,4	2.203	4.856	21,6
14	9/16	1 3/4	88,6	8,9	6	2.947	6.497	28,9
16	5/8	2	116	11,6	7,8	3.773	8.318	37
18	3/4	2 1/4	146	14,6	9,8	4.711	10.386	46,2
20	13/16	2 1/2	181	18,1	12,2	5.721	12.612	56,1
22	7/8	2 3/4	219	21,9	14,7	6.842	15.084	67,1
24	1	3	260	26	17,5	8.035	17.715	78,8
26	1 1/32	3 1/4	306	30,6	20,6	9.330	20.570	91,5
28	1 1/8	3 1/2	354	35,4	23,8	10.707	23.605	105
30	1 1/4	3 3/4	407	40,7	27,3	12.135	26.752	119
32	1 5/16	4	463	46,3	31,1	13.664	30.124	134
34	1 11/32	4 1/4	525	52,5	35,3	15.398	33.946	151
36	1 1/2	4 1/2	586	58,6	39,4	17.029	37.543	167
38	1 9/16	4 3/4	656	65,6	44,1	21.822	48.108	214
40	1 5/8	5	725	72,5	48,7	23.861	52.605	234
44	1 3/4	5 1/2	877	87,7	58,9	28.246	62.271	277
48	2	6	1.040	104	69,9	33.141	73.062	325
52	2 1/8	6 1/2	1.220	122	82	38.341	84.527	376
56	2 1/4	7	1.420	142	95,4	43.746	96.442	429
60	2 1/2	7 1/2	1.630	163	109,5	49.558	109.256	486
64	2 5/8	8	1.860	186	125	55.473	122.294	544
68	2 3/4	8 1/2	2.100	210	141,1	62.101	136.907	609
72	2 7/8	9	2.350	235	157,9	69.035	152.194	677
80	3 1/4	10	2.900	290	194,9	83.413	183.891	818
90	3 9/16	11 1/8	3.750	375	252	107.886	237.845	1.058

More diameters available by demand.

In accordance to ISO 10572:2009.

- ✓ Raw Material: Mixed Polyolefin (HT)
- ✓ Specific Gravity: 0,94
- ✓ Melting Point: 165°C

- ✓ Elongation at % of BS:
25% 6%
50% 11,5%

PP Mono

A twisted rope made from high tenacity polypropylene monofilaments yarns. Its balanced construction results in a high strength lightweight rope with good abrasion resistance and elongation, making it a good compromise on a price/quality ratio.



3 / 4 Strands

Advantages

- Lightweight
- Good elongation
- Good abrasion resistance

Applications



Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
6	1/4	3/4	16,3	1,6	1,1	612	1.349	6
8	5/16	1	28,9	2,9	1,9	1.020	2.248	10
10	3/8	1 1/4	45,2	4,5	3	1.530	3.372	15
12	1/2	1 1/2	65,1	6,5	4,4	2.162	4.766	21,2
14	9/16	1 3/4	88,6	8,9	6	2.855	6.295	28
16	5/8	2	116	11,6	7,8	3.824	8.430	37,5
18	3/4	2 1/4	146	14,6	9,8	4.589	10.116	45,0
20	13/16	2 1/2	181	18,1	12,2	5.710	12.589	56,0
22	7/8	2 3/4	219	21,9	14,7	6.832	15.062	67,0
24	1	3	260	26	17,5	8.158	17.984	80,0
26	1 1/32	3 1/4	306	30,6	20,6	9.177	20.233	90,0
28	1 1/8	3 1/2	354	35,4	23,8	10.809	23.829	106
30	1 1/4	3 3/4	407	40,7	27,3	12.033	26.527	118
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	17.335	38.217	170
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	25.493	56.201	250

More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polyethylene Monofilament (HT)
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25 % 6,5%
50 % 12, %

PP Film

An economic PP film twisted rope that has a high level of strength and excellent service life compared to other standard polypropylene ropes.

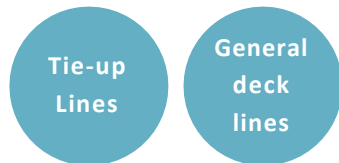


3 / 4 Strands

Advantages

- Economic
- Lightweight
- Good wear resistance

Applications



Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/ 100m	lbs/ 100ft	kgf	lbf	kN
6	1/4	3/4	16,3	1,6	1,1	612	1.349	6
8	5/16	1	28,9	2,9	1,9	1.020	2.248	10
10	3/8	1 1/4	45,2	4,5	3	1.530	3.372	15
12	1/2	1 1/2	65,1	6,5	4,4	2.162	4.766	21,2
14	9/16	1 3/4	88,6	8,9	6	2.855	6.295	28
16	5/8	2	116	11,6	7,8	3.824	8.430	37,5
18	3/4	2 1/4	146	14,6	9,8	4.589	10.116	45,0
20	13/16	2 1/2	181	18,1	12,2	5.710	12.589	56,0
22	7/8	2 3/4	219	21,9	14,7	6.832	15.062	67,0
24	1	3	260	26	17,5	8.158	17.984	80,0
26	1 1/32	3 1/4	306	30,6	20,6	9.177	20.233	90,0
28	1 1/8	3 1/2	354	35,4	23,8	10.809	23.829	106
30	1 1/4	3 3/4	407	40,7	27,3	12.033	26.527	118
32	1 5/16	4	463	46,3	31,1	13.460	29.674	132
36	1 1/2	4 1/2	586	58,6	39,4	17.335	38.217	170
40	1 5/8	5	723	72,3	48,6	20.394	44.961	200
44	1 3/4	5 1/2	875	87,5	58,8	25.493	56.201	250

More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene Split Film
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25 % 6,5%
50 % 12 %

PE Mono

Made from high tenacity polyethylene, this monofilaments plaited rope is lightweight, with good abrasion resistance and long-wearing life. With fine resistance against UV lights, it has good elongation and high creep.



3 / 4 Strands



Advantages

- Good abrasion and wear resistance
- Good UV resistance
- Good elongation and high creep
- Floating, no water absorption

Applications



Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3 1/2	18	1,8	1,2	418	922	4
8	5/16	3 3/4	32	3,2	2,2	725	1.598	7
10	3/8	4	50	5	3,4	1.111	2.450	11
12	1/2	4 1/2	72	7,2	4,8	1.581	3.484	15
14	9/16	5	98	9,8	6,6	2.131	4.698	21
16	5/8	5 1/2	128	12,8	8,6	2.753	6.070	27
18	3/4	6	162	16,2	10,9	3.447	7.598	34
20	13/16	3	200	20	13,4	4.211	9.284	41
22	7/8	3 1/4	242	24,2	16,3	5.078	11.195	50
24	1	3	289	28,9	19,4	5.996	13.219	59
26	1 1/32	3 1/4	339	33,9	22,8	6.975	15.377	68
28	1 1/8	3 1/2	393	39,3	26,4	8.076	17.805	79
30	1 1/4	3 3/4	451	45,1	30,3	9.208	20.300	90
32	1 5/16	4	513	51,3	34,5	10.401	22.930	102
36	1 1/2	4 1/2	649	64,9	43,6	13.052	28.775	128
40	1 5/8	5	802	80,2	53,9	16.010	35.295	157
44	1 3/4	5 1/2	970	97	65,2	19.171	42.264	188

More diameters available by demand.

In accordance to ISO 1969:2004.

- ✓ Raw Material: Polyethylene Monofilament (HT)
- ✓ Specific Gravity: 0,95
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS: 25% 10%
- 50% 16%

Single Strand (Dolly Rope)

COTESI PE single strand rope, common know in the market as “Dolly Rope”, has been developed for cod end protection. The use of these ropes is especially recommended in bottom trawling. It is available in HDPE monofilament and in HTPP Film.



Single Strand



Advantages

- Good abrasion and wear resistance

Applications



Diameter		Size	Weight		Breaking Load		
mm	Inches	Inches	Kg/100m	lbs/100ft	kgf	lbf	kN
12	1/2	11/2	8,5	5,7	1.540	3.395	15,1
14	9/16	13/4	9,0	6,4	2.100	4.630	20,6
16	5/8	2	12,0	8,1	2.600	5.732	25,5
18	3/4	2 1/4	14,5	9,7	3.100	6.834	30,4
20	13/16	2 1/2	18,0	12,1	3.850	8.488	37,7

Tolerance on weights and resistance: ± 5%

- Specific Gravity: 0,95
- Melting Point: 150°C

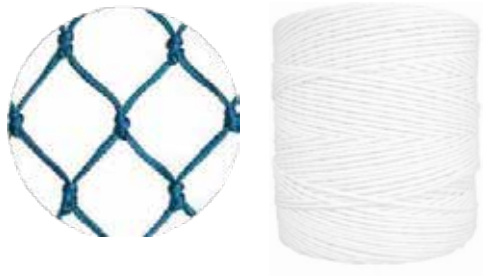
NETS



D-Tech

High performance netting made of Dyneema® fibre. Its strength allows the use of twines with a smaller diameter. Dyneema when used in trawl nets allows a reduction of up to 50% on twine diameter, compared to polyamide twines of same breaking strength. Exclusive protective coating ensures excellent abrasion resistance and a longer life time.

A lighter net leads to significant less drag resistance in water and considerable fuel savings or higher towing speed.



Advantages

- Very high tenacity knot
- Very high resistance compared to twine diameter
- Double knot prevents knot slippage and net distortion
- Exclusive protecting coating
- Thermo-stabilized for dimensional uniformity and stability of the meshes

Ref.	Runnage		Knot Resistance	
mm	m/Kg	tol.	kgf	tol.
1,1	1.300	±5%	128	±10%
1,5	990		186	
1,8	670		230	
2,2	430		286	

The figures are for guidance purposes only, Cotesi cannot be held liable for deviations.

We reserve the right to change them without prior notice.

H-Force

Force-Tech high performance netting has been developed to hold stiffness and to resist abrasion, while taking full benefit of the properties of HMWPE fibres used in its production.

Force-Tech netting has a firm PE core covered by a braided HMWPE jacket, resulting in a round and stiff twine. This netting is finalized by the application of Cotesi proprietary PRO-TECH coating, a special and durable coating that improves its overall performance.

Manufactured with double knots up to 2,2mm for better mesh stability and low mesh distortion.



Advantages

- Excellent abrasion resistance, light and strong
- Low drag resistance
- Double knot prevents knot slippage and net distortion
- Exclusive protective coating for improved performance

Ref. ^a	Runnage		Knot Resistance	
mm	m/Kg	tol.	kgf	tol.
1,5	690	±5%	100	±10%
2,0	442		220	
2,5	238		410	
3,0	190		480	
4,0	118		700	

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Force-Tech

Force-Tech high performance netting has been developed to hold stiffness and to resist abrasion, while taking full benefit of the properties of HMWPE fibres used in its production.

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Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
1,5	690	±5%	±10%	100
2,0	442			220
2,5	238			410
3,0	190			480
4,0	118			700

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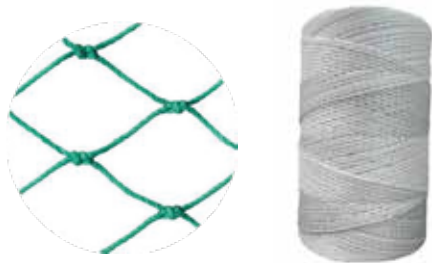
We reserve the right to change them without prior notice.

Advantages

- Excellent abrasion resistance, light and strong
- Low drag resistance
- Double knot prevents knot slippage and net distortion
- Exclusive protective coating for improved performance

D-Tech Twisted

High performance netting made of twisted HMWPE fibre. Its strength allows the use of twines with a smaller diameter which may result in up to 50% thinner twines compared to polyamide of the same wet knot strength. The lower weight of D-tech netting leads to significant less drag resistance in water ending in considerable fuel savings or higher towing speed. A custom built impregnation technique and an exclusive protecting coating ensures excellent abrasion resistance and a longer life time.



Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
1,0	1.700	2.530	±5%	90
2,0	850	1.265		180
3,0	590	878		270

The figures are for guidance purposes only, Cotesi cannot be held liable for deviations.

We reserve the right to change them without prior notice.

Advantages

- Very high tenacity knot
- Very high resistance compared to twine diameter
- Double knot prevents knot slippage and net distortion
- Exclusive protecting coating
- Thermo-stabilized for dimensional uniformity and stability of the meshes

Titanium

After a long research Cotesi has developed a product that joins the best of two worlds: resistance and durability. TITANIUM nets offer the best price/performance ratio as it allows to reduce twine diameter up to 30% at a competitive cost compared to a 100% Dyneema® twine.



Ref. ^a	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
2,2	375	±5%	±10%	280
2,8	230			486
3,2	200			630
4,0	124			772
5,0	90			1.056
5,5	75			1.190

The figures are for guidance purposes only, Cotesi cannot be held liable for deviations.

We reserve the right to change them without prior notice.

Advantages

- Compact twine-REDLINE construction with Dyneema® core
- High tenacity knot
- Low sand penetration
- High breaking strength
- Thermo-stabilized for dimensional uniformity and stability of the meshes

Redline Pro Gold

A new generation of Redline compact nettings. Redline Pro Gold keeps the compactness of Redline twines in an optimized construction to achieve higher results of knot breaking strength, whilst keeping unchangeable the excellent abrasion properties and low sand penetration in sand or mud seabed. Produced from a special grade of high density polyethylene, it is the result of the close contact with fishermen and their needs for a good catch.



Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
1,2	750	±5%	±10%	90
1,8	560			120
2,2	370			165
2,6	260			230
2,8	215			275
3,2	190			310
3,6	155			370
4	125			490
4,5	97			630
5	75			725
5,5	65			850
6	60			980

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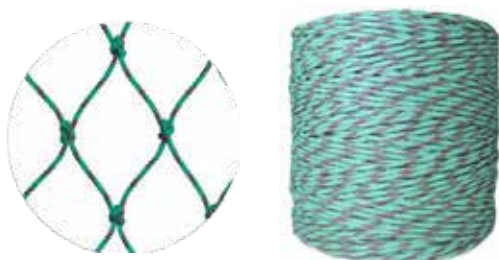
We reserve the right to change them without prior notice.

Advantages

- High-tenacity knot
- Excellent abrasion and wear resistance
- Low sand penetration
- Thermo-stabilized for dimensional uniformity and mesh stability

Redline Pro

Well known for its red tracer, it's also known for being the best compact netting in the market. Produced from a high density polyethylene, in a special extrusion process, it is the result of a presence in the market for more than 50 years.



Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
1,2	760	±5%	±10%	75
1,5	700			80
1,8	600			90
2,2	380			148
2,6	270			203
2,8	225			245
3,2	200			285
3,6	162			345
4	127			460
4,5	100			550
5	84			640
5,5	68			720
6	60			800
7	50			860
8	40			1.100

The figures are for guidance purposes only, Cotesi cannot be held liable for deviations.

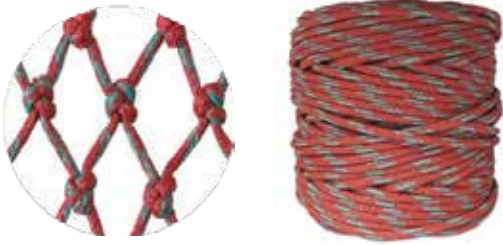
We reserve the right to change them without prior notice.

Advantages

- High-tenacity knot
- Excellent abrasion resistance
- Low sand penetration
- Thermo-stabilized for dimensional uniformity and stability of the meshes

Greenline

Specially developed to be used in cod-ends, it is made from high density polyethylene in a most modern extrusion technology, resulting on a high resistance soft twine that assures a better fish quality.



Advantages

- Soft twine easy to handle
- High breaking strength
- High tenacity knot
- Superior abrasion resistance
- Untwisted knot
- Thermo-stabilized for dimensional uniformity and stability of the meshes

Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
1,8	570	±5%	±10%	155
2,2	342			213
2,6	243			257
2,8	202			300
3,2	190			315
3,6	172			345
4	160			380
4,5	127			490
5	100			580
5,5	68			790
6	60			880
7	50			950
8	40			1.200
9	28			1.850

The figures are for guidance purposes only, Cotesi cannot be held liable for deviations.

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Greenline XL Hard Bottom

Results from the development of GREENLINE technology, and has been specially developed for the use in cod-ends in bottom trawling. The twine has a special treatment that reinforces its stiffness and that varies according to seabed conditions. Developed to be used on bottom trawling. It has a special treatment to resist the high abrasion in rocky conditions.



Advantages

- Very low sand penetration
- Very high-tenacity knot
- Excellent abrasion resistance
- Mesh stability
- Untwisted knot
- Thermo-stabilized for dimensional uniformity and stability of the meshes

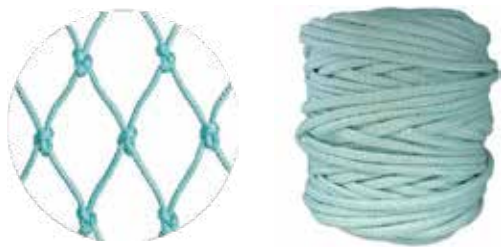
Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
4	180	±5%	±10%	315
4,5	140			450
5	95			580
5,5	83			680
6	71			790
8	38			1.200

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Movline Plus

Made with high-tenacity Polyolefin fiber and extruded through a system exclusively developed by COTESI that guarantees this net to have superior abrasion resistance. We recommend the use of MOVLINE PLUS nets when superior abrasion resistance and high-mechanic resistance are demanded.



Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
2	270	±5%	±10%	230
3	205			315
4	155			385
5	100			610
6	75			710

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Advantages

- Superior abrasion resistance
- High-tenacity
- Excellent breaking load
- High-elasticity
- Thermo-stabilized for dimensional uniformity and stability of the meshes

PA Braided

NETS | TUNA FISHING | PURSEINE

Polyamide Braided nettings (Nylon) for tuna fishing are produced with high tenacity black Nylon 6 yarns. The manufacturing process follows the highest quality standards to deliver a nylon nettings with an excellent performance in tuna fishing. Our nylon nettings for tuna are treated with selected coatings for improved performance. Thermofixed and stabilized for mesh stability and prevent shrinkage.



Ref.	Approx. Diam.	Runnage		Knot Resistance	
		mm	m/Kg	tol.	kgf
36	2,5	382	±5%	±10%	135
42	3	276			187
48	3,2	250			205
54	3,5	236			222
60	3,7	210			250
72	4,2	160			315
96	5	113			440
120	5,5	97			490
132	5,7	77			580
168	6,5	58			953
210	8	35			1.522
300	10	22			2.450
350	12	14			3.570

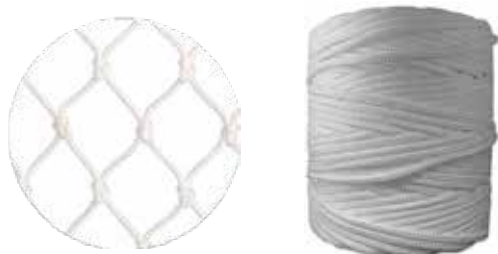
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We reserve the right to change them without prior notice.

Advantages

- Braided construction
- Good abrasion resistance
- Excellent breaking load
- High elasticity
- Thermo-stabilized for dimensional uniformity and stability of the meshes
- Possibility of a special coating upon request

PA Braided

Polyamide Braided nettings (Nylon) are produced with high tenacity Nylon 6 yarns. The manufacturing process follows the highest quality standards to deliver a nylon nettings that performs in all conditions. Thermofixed and stabilized to prevent shrinkage. Coatings for these nettings are available to request.



Ref.	Approx. Diam.	Runnage	Knot Resistance		
#	mm	m/Kg	tol.	kgf	tol.
8842	1,8	581	±5%	95	±10%
8843	2	430		170	
4840/3	2,5	280		250	
4840/4	3,2	190		330	
4840/5	4,1	105		510	
4840/6	4,4	90		545	
4840/7	5,1	70		580	
4840/8	5,8	50		820	
4840/9	7,2	35		1.025	

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Advantages

- Braided construction
- Good abrasion resistance
- Excellent breaking load
- High elasticity
- Thermo-stabilized for dimensional uniformity and stability of the meshes
- Possibility of a special coating upon request

PA Twisted

Polyamide twisted nettings (Nylon) are produced with high tenacity Nylon 6 yarns. The manufacturing process follows the highest quality standards to deliver a nylon nettings that performs in all conditions. Thermofixed and stabilized to prevent shrinkage. Coatings for these nettings are available to request.



Ref.	Approx. Diam.	Runnage	Knot Resistance		
#	mm	m/Kg	tol.	kgf	tol.
210/24	1,1	1.600	±5%	38	±10%
210/36	1,4	1.000		60	
210/48	1,6	750		80	
210/60	1,8	560		95	
210/72	2,0	500		115	
210/84	2,2	430		130	
210/96	2,3	370		140	
210/120	2,7	280		190	
210/180	3,3	185		310	
210/240	3,4	140		390	

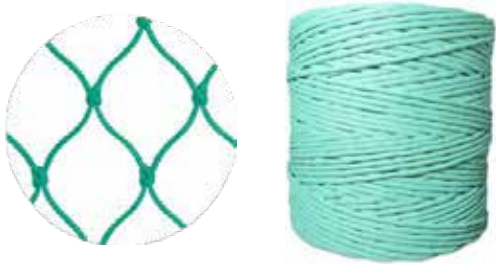
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Advantages

- Twisted construction
- Good abrasion resistance
- High Elasticity
- Single, Double and Triple meshes
- Thermo-stabilized for dimensional uniformity and stability of the meshes
- Possibility of a special coating that improves abrasion resistance, upon request

PE Braided

Our standard Polyethylene Nettings are designed for durability and consistent performance. Using trusted materials and combining Cotesi highest quality standards, they offer an excellent quality and price ratio. Available in different diameters, these all-around standard nettings are a good solution for many applications, such as commercial fishing and sports.



Advantages

- Green color
- High-density of Polyethylene
- Braided construction
- Lightweight
- Good abrasion resistance
- Thermo-stabilized for dimension uniformity and stability of the meshes

Ref.	Runnage		Knot Resistance	
	mm	m/Kg	tol.	kgf
2,3	450	±5%	±10%	90
2,5	380			105
2,7	310			125
3	270			130
3,5	225			160
4	200			180
4,5	162			215
5	127			265
5,5	100			300
6	84			360
7	68			440
8	40			670

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PE Twisted

Our standard Polyethylene Nettings are designed to deliver consistent performance. Using trusted materials and combining Cotesi highest quality standards, this all-around netting offers an excellent quality price ratio.



Advantages

- Twisted construction
- High-density Polyethylene
- Lightweight
- Good abrasion resistance
- Thermo-stabilized for dimensional uniformity and stability of the meshes

#	Runnage			Knot Resistance	
	mm	m/Kg	ft/lb	tol.	kgf
12	1,3	1.320	1.964	±5%	17
15	1,4	1.025	1.525		20
18	1,5	850	1.265		28
21	1,6	745	1.109		32
24	1,8	642	955		37
27	1,9	570	848		42
30	2,0	518	771		45
33	2,1	470	699		49
36	2,2	430	640		54
39	2,3	395	588		58
42	2,4	368	548		63
45	2,5	340	506		68
50	3,0	295	439		81
54	3,2	242	360		99
60	3,4	216	321		110
70	3,8	195	290		118
90	4,0	140	208		164

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Other Segments

Taking advantage from the experience and know-how acquired, we are committed to answer all challenges with a **diversified offer** and increasing approach to different business segments.



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Safety ropes | 92

Off-road | 94

Industrial | 97



Cotesi excels for the constant monitoring of technological innovations and evolution of market needs. Taking advantage from the experience and know-how acquired, we are committed to answer all challenges with a diversified offer an increasing approach to different business segments.

To meet the growing needs and innovation of markets, Cotesi now also offers a complete range of fully customized lifting application ropes as a viable alternative to steel wire rope. This range has the following advantages: equivalent load-bearing capacity for the same rope diameter, lower weight, easier handling and abrasion-resistant. Due to the easier handling of these equipments, lifting operations become faster than with wire ropes, resulting in significant savings for your business.

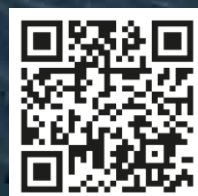
With a complete rope range, Cotesi now presents the Off-Road range - becomes the only producer of 4x4 towing ropes in Portugal. The ideal solution to overcome the off-road's hardest conditions.

Cotesi also offers a wide range of solutions of ropes and twines for the industrial environment at a high level of strength and excellent service life. Customizable to your needs and presented in different shapes and sizes.

Our global presence has been allowing us to build a network of solid relationships with customers around the world. Being an ISO 9001 certified company, we are committed to providing each and every customer with a full warranty of the highest standards of quality and security.



Lifting



D-TECH WINCHLINE PLUS

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves abrasion, heat resistance and fatigue properties. Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMWPE. Also available with PES & PE Jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	310	31	20,8	33.141	73.062	325
30	1 1/4	3 3/4	500	50	33,6	64.956	143.201	637
32	1 5/16	4	640	64	43	75.051	165.457	736
34	1 11/32	4 1/4	680	68	45,7	84.025	185.240	824
36	1 1/2	4 1/2	720	72	48,4	92.998	205.023	912
38	1 9/16	4 3/4	800	80	53,8	101.972	224.806	1.000
40	1 5/8	5	900	90	60,5	116.248	256.279	1.140
44	1 3/4	5 1/2	1.110	111	74,6	140.721	310.232	1.380
48	2	6	1.320	132	88,7	164.175	361.938	1.610
52	2 1/8	6 1/4	1.500	150	100,8	195.786	431.628	1.920
56	2 1/4	7	1.765	176,5	118,6	230.457	508.062	2.260

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C
- ✓ Elongation at % of BS: 25% 0,9%
50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With HMWPE Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in HMPE. Also available with PES & PE Jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	360	36	24,2	38.749	85.426	380
30	1 1/4	3 3/4	425	42,5	28,6	45.887	101.163	450
32	1 1/3	4	474	47,4	31,9	53.025	116.899	520
34	1 11/32	4 1/4	544	54,4	36,6	61.183	134.884	600
36	1 1/2	4 1/2	637	63,7	42,8	69.341	152.868	680
38	1 4/7	4 3/4	706	70,6	47,4	78.518	173.101	770
40	1 5/8	5	765	76,5	51,4	88.716	195.581	870
44	1 3/4	5 1/2	963	96,3	64,7	106.051	233.798	1.040
48	2	6	1.100	110	73,9	128.485	283.256	1.260
52	2 1/8	6 1/4	1.380	138	92,7	148.879	328.217	1.460
56	2 1/4	7	1.575	157,5	105,8	173.352	383.170	1.700

More diameters available by demand.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C
- ✓ Elongation at % of BS: 25% 0,9%
50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE Plus

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech Winchline Plus must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided optimized construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	340	34	22,8	33.141	73.062	325
30	1 1/4	3 3/4	551	55,1	37	64.956	143.101	637
32	1 5/16	4	700	70	47	75.051	165.457	736
34	1 11/32	4 1/4	754	75,4	50,7	84.025	185.240	824
36	1 1/2	4 1/2	808	80,8	54,3	92.998	205.023	912
38	1 9/16	4 3/4	893	89,3	60	101.972	224.806	1.000
40	1 5/8	5	1.000	100	67,2	116.248	256.279	1.140
44	1 3/4	5 1/2	1.250	125	84	140.721	310.232	1.380
48	2	6	1.480	148	99,4	164.175	361.938	1.610
52	2 1/8	6 1/4	1.700	170	114,2	195.786	431.628	1.920
56	2 1/4	7	1.900	190	127,7	230.457	508.062	2.260

More diameters available by demand.

- ✓ Raw Material: HMWPE / Polyester
- ✓ Specific Gravity: 1,06
- ✓ Melting Point: 150°C / 265°C
- ✓ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech WINCHLINE

With Polyester Jacket

Made from HMWPE fibers and coated with a Pro-Tech self-unique impregnation that improves its abrasion resistance and fatigue properties. Cotesi D-Tech Winchline must be considered when high breaking strengths are required. Stronger than steel wire ropes of the same weight, it has proven to be a cost-saving replacement in several applications. Double braided construction to higher breaking loads, with a 12 strands HMWPE core and a 32 braids cover in Polyester. Also available with HMPE & PE jacket.



Jacketed Ropes

Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling

Diameter		Size	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	409	40,9	35,6	38.749	85.426	380
30	1 1/4	3 3/4	489	48,9	42,6	45.887	101.163	450
32	1 1/3	4	508	50,8	44,2	53.025	116.899	520
34	1 11/32	4 1/4	581	58,1	50,6	61.183	134.884	600
36	1 1/2	4 1/2	682	68,2	59,4	69.341	152.868	680
38	1 4/7	4 3/4	750	75	65,3	78.518	173.101	770
40	1 5/8	5	800	80	69,6	88.716	195.581	870
44	1 3/4	5 1/2	1.009	100,9	87,8	106.051	233.798	1.040
48	2	6	1.183	118,3	103	128.485	283.256	1.260
52	2 1/8	6 1/4	1.465	146,5	127,5	148.879	328.217	1.460
56	2 1/4	7	1.675	167,5	145,8	173.352	382.170	1.700

More diameters available by demand.

- ✓ Raw Material: HMWPE / Polyester
- ✓ Specific Gravity: 1,06
- ✓ Melting Point: 150°C / 265°C
- ✓ Elongation at % of BS: 25% 0,9%
- 50%1,6%

Applications

Mooring
Lines

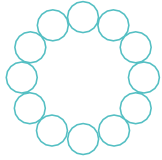
Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Using a torque-free 12 strands braided construction, D-Tech is stronger than steel wire of the same weight and has proven to be a cost-saving replacement for wire rope in several applications, such as mooring, towing or lifting.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

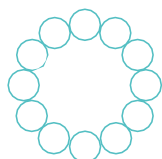
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
 - 25% 0,9%
 - 50% 1,6%

H-Force

Made from HMWPE fibers and protected by a self-unique Pro-Tech impregnation that improves its abrasion resistance. Using a torque-free 12 strands braided construction, H-Force is stronger than steel wire of the same weight and is a cost-saving replacement for wire rope and other conventional HMWPE ropes in several applications.



12 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Flexible, non-kinking and non-rotating
- Easy and safer handling
- Easy to splice

Applications

Mooring
Lines

Anchor
Lines

Winch
Lines

Towing
and Tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	23	2,3	1,5	4.079	8.992	40
8	1/3	1	40	4	2,7	7.036	15.512	69
10	3/8	1 1/8	61	6,1	4,1	10.707	23.605	105
12	1/2	1 1/2	87	8,7	5,8	15.296	33.721	150
14	4/7	1 3/4	117	11,7	7,9	20.394	44.961	200
16	5/8	2	152	15,2	10,2	26.003	57.326	255
18	3/4	2 1/4	190	19	12,8	32.121	70.814	315
20	13/16	2 1/2	233	23,3	15,7	38.749	85.426	380
22	7/8	2 3/4	280	28	18,8	45.887	101.163	450
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,6	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	300.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635

More diameters available by demand.

In accordance to ISO 10325:2018.

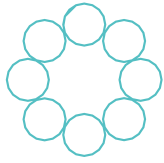
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ☑ Raw Material: HMWPE
- ☑ Specific Gravity: 0,98
- ☑ Melting Point: 150°C

- ☑ Elongation at % of BS:
- 25% 0,9%
- 50% 1,6%

D-Tech

Made from HMWPE fibers and protected by a self-unique impregnation that improves its abrasion resistance, Cotesi D-Tech ropes must be considered when high breaking strengths are required. Stronger than steel wire of the same weight, it has proven to be a cost-saving replacement for wire rope in several applications. Its 8 strands plaited construction is smooth and non-rotational.



8 Strands



Advantages

- 1/7 of the steel wire weight
- Longer life time compared to steel wire
- Low operational costs
- Low elongation
- Non-kinking and non-rotating
- Easy and safer handling
- Very easy to splice

Applications

Mooring
Lines

Anchor
Line

Winch
Lines

Towing
and tug
ropes

Diameter		Size Circ.	Weight			Breaking Load		
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
24	1	3	331	33,1	22,2	53.025	116.899	520
26	1 1/32	3 1/4	386	38,6	25,9	61.183	134.884	600
28	1 1/8	3 1/2	445	44,5	29,9	69.851	153.992	685
30	1 1/4	3 3/4	508	50,8	34,1	79.028	174.225	775
32	1 5/16	4	575	57,5	38,6	88.206	194.457	865
34	1 11/32	4 1/4	646	64,6	43,4	98.403	216.938	965
36	1 1/2	4 1/2	722	72,2	48,5	109.110	240.542	1.070
38	1 9/16	4 3/4	801	80,1	53,8	119.817	264.147	1.175
40	1 5/8	5	884	88,4	59,4	131.034	288.876	1.285
44	1 3/4	5 1/2	1.062	106,2	71,4	155.507	342.829	1.525
48	2	6	1.255	125,5	84,3	181.000	399.031	1.775
52	2 1/8	6 1/2	1.464	146,4	98,4	208.533	459.728	2.045
56	2 1/4	7	1.688	168,8	113,4	237.595	523.798	2.330
60	2 1/2	7 1/2	1.928	192,8	129,6	268.696	592.364	2.635
64	2 5/8	8	2.183	218,3	146,7	300.817	663.178	2.950
68	2 3/4	8 1/2	2.453	245,3	164,8	334.978	738.488	3.285
72	2 7/8	9	2.738	273,8	184	370.668	817.170	3.635
76	3	9 3/8	3.038	303,8	204,1	407.888	899.224	4.000
80	3 1/4	10	3.353	335,3	225,3	446.128	983.526	4.375
88	3 5/8	11	4.028	402,8	270,7	528.215	1.164.495	5.180
96	4	12	4.762	476,2	320	615.911	1.357.828	6.040
104	4 1/4	13	5.555	555,5	373,3	709.725	1.564.650	6.960
112	4 5/8	14	6.406	640,6	430,5	809.148	1.783.836	7.935
120	5	15	7.316	731,6	491,6	913.669	2.014.262	8.960
128	5 1/4	16	8.233	823,3	553,2	1.024.309	2.258.176	10.045
136	5 1/2	17	9.308	930,8	625,5	1.140.047	2.513.331	11.180

More diameters available by demand.

In accordance to ISO 10325:2018.

Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ Raw Material: HMWPE
- ✓ Specific Gravity: 0,98
- ✓ Melting Point: 150°C

- ✓ Elongation at % of BS:
25% 0,9%
50% 1,6%

Safety Ropes



Safety Ropes

Designed and certified to comply with the requirements CE EN 1891, Cotesi Static Ropes are a key product for usage in vertical work. Manufactured using the best fibers, Cotesi static ropes are designed for professionals and provide maximum performance and safety, suitable to a wide range of industries.

Whether arborists work up a tree or scale a wind farm as an offshore contractor, our range provides a solution for all work at height operations, covering various activities: difficult access, technical rescue and industry.

Advantages

- EN 1891 conformity
- Good compatibility with hardware
- Easy to knot and flexible
- Maximum security
- Good abrasion resistance
- High energy absorption
- High strength

Applications

Arboriculture

Safety Lines

Life Lines



Diameter	Weight	Breaking Strength	Elongation at working load	Lengths
mm	Kg/100	Kgf	%	meters
10,5	7,1	3.400	2,98	50, 100 and 200
11	7,8	3.700	3,52	50, 100 and 200
12	9,6	4.500	3,17	50, 100 and 200

Construction: Braided 32 Plait

Material: Nylon (core and cover)

Color: Multiple Colours



Off-Road



Winch Rope by Cotesi

Winch Rope by Cotesi is the ultimate technology in synthetic ropes for 4x4 off-road winches. Made from HMWPE fibers and protected by a self-unique Pro-Tech impregnation that improves its overall performance, Winch Rope by Cotesi has about 1/7 of steel wire ropes weight for the same breaking strength, thus, must be considered when high breaking strengths and low weight are required.

It comes ready for use with a steel thimble and a hook in one end.



Advantages

- 1/7 of the steel wire rope weight for same breaking strength
- Longer life time compared to steel wire rope
- Easy and safer handling
- No splinters or burrs over use
- Will not rust
- Low maintenance
- Torque-free balanced construction
- Non-kinking
- Floats in water

Applications



Diameter		Size Circ.	Weight			Breaking Load			Standard Lengths
mm	Inches	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN	meters
8	5/16	1	31	3,1	2,1	5.200	11.465	51	20, 25 and 30
10	3/8	1 1/8	42	4,2	2,8	6.659	14.680	65	20, 25 and 30
12	1/2	1 1/2	64	6,4	4,3	10.401	22.930	102	20, 25 and 30
14	9/16	1 3/4	91	9,1	6,1	14.990	33.046	147	20, 25 and 30

Construction: Braided 12 Strands
Material: HMWPE



Kinetic Cable

The Kinetic Cable by Cotesi is the ideal solution for off-road 4x4 vehicle recovery. Using a double braided construction, it is produced with high tenacity polyester to provide maximum strength and durability. Due to its elongation, the Kinetic Cable has a superior capacity to absorb energy when compared to straps and enables the use of accumulated kinetic energy to unstuck the vehicle, without damaging anchor points.



Diameter		Weight			Breaking Load		
mm	Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
16	5/8	163	16,3	10,9	5.500	12.125	54
18	3 /4	210	21	14,1	7.500	16.535	73
20	13/16	280	28	18,8	8.200	18.078	80
22	7/8	332	33,2	22,3	8.900	19.621	87
24	1	345	34,5	23,1	10.500	23.148	103

Construction: Braided 24 plait
Material: Polyester (HT)

Advantages

- Abrasion resistant
- Excellent energy absorption
- High elongation
- Easy and safer handling
- Torque-free balanced construction
- Non-kinking

Applications



Soft Shackle by Cotesi

The Soft Shackle by Cotesi was designed to be a safe, lightweight and easy-to-use device, being a good replacement for steel shackles in 4x4 and recovery usages. It is made from HMWPE fibers and protected by an impregnation that improves its overall performance. Soft Shackle by Cotesi forms a closed loop with an easy-open eye and a diamond stopper knot. It can be used around almost anything without damaging your vehicle.



Diameter		Breaking Load		
mm	Inches	kgf	lbf	kN
7	9/16	8.000	17.637	78
9	23/64	12.000	26.455	118

Other dimensions upon request.

Construction: Braided 12 Strands
Material: HMWPE

Advantages

- Extremely light
- Abrasion resistant
- UV resistant
- Floats in water
- Flexible and easy to handle
- Stronger than a steel shackle of the same diameter
- One-piece construction
- Time saver - it takes less time to set up than a steel shackle

Applications



Industrial



Sisal Ropes

Traditional ropes made from a blend of selected natural fibers, with good abrasion resistance and low elongation. These are biodegradable and non-polluting, as well as excellent for classic old fashion ships. A special colour treatment can be applied upon request to match the natural colour of the manila fiber.



3 / 4 Strands



Advantages

- Low elongation
- Bio degradable, non-polluting
- Does not slip
- Good UV resistance

Applications

Classic
Vessels

Tie-up
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ.	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
6	1/4	3/4	25	2,5	1,7	263	580	3
8	5/16	1	44	4,4	3	459	1.012	4
10	3/8	1 1/4	69	6,9	4,7	707	1.558	7
12	1/2	1 1/2	99	10	6,7	1.005	2.217	10
14	9/16	1 3/4	136	13,6	9,1	1.356	2.990	13
16	5/8	2	177	17,7	11,9	1.754	3.867	17
18	3/4	2 1/4	225	22,5	15,1	2.203	4.856	22
20	13/16	2 1/2	277	27,7	18,6	2.702	5.957	26
22	7/8	2 3/4	335	33,5	22,5	3.253	7.171	32
24	1	3	399	39,9	26,8	3.855	8.498	38
26	1 1/32	3 1/4	468	46,8	31,4	4.507	9.936	44
28	1 1/8	3 1/2	543	54,3	36,5	5.201	11.465	51
30	1 1/4	3 3/4	624	62,4	41,9	5.945	13.106	58
32	1 5/16	4	710	71	47,7	6.730	14.837	66
34	1 11/32	4 1/4	804	80,4	54	7.546	16.636	74
36	1 1/2	4 1/2	898	89,8	60,3	8.453	18.636	83
38	1 9/16	4 3/4	1.004	100,4	67,5	9.381	20.682	92
40	1 5/8	5	1.110	111	74,6	10.401	22.930	102
44	1 3/4	5 1/2	1.340	134	90	12.441	27.426	122

More diameters available by demand.

In accordance to ISO 1181:2004.

✓ Raw Material: Sisal

✓ Specific Gravity: 1,38

✓ Elongation at % of BS:

25% 4%

50% 7%

Sisal Packing Twine

With a production unit in Portugal, Cotesi offers a complete range of Sisal Packing Twine solutions. Customized to your needs and presented in different shapes and sizes.



Packing Twine



Applications

Commerce

General
Usage

Ref.	Runnage			Breaking Load		
	m/kg	ft/lb	tol.	kgf	lbf	kN
200/1	200	300	+/- 8%	77	170	0,8
300/1	300	450		51	112	0,5
400/1	400	600		41	90	0,4
500/1	500	750		32	71	0,3
600/1	600	900		27	60	0,3
200/2	98	147		166	366	1,6
300/2	147	220		110	243	1,1
400/2	196	294		89	196	0,9
500/2	245	367		70	154	0,7
600/2	294	440		58	128	0,6
200/3	65	97		250	551	2,5
300/3	98	147		166	366	1,6
400/3	131	166		134	295	1,3
500/3	163	244		107	236	1
600/3	196	294		89	196	0,9
200/4	49	73		335	739	3,3
300/4	73	109		223	492	2,2
400/4	98	147		179	395	1,8
500/4	122	183		143	315	1,4
600/4	147	220		119	262	1,2

Available in 1, 2, 3 and 4 ply in a shape of balls or spools.
Standard colour is Natural.

PP Film

A PP film twisted rope that has a high level of strength and excellent service life compared to other standard polypropylene twisted ropes.



3 / 4 Strands



Advantages

- Direct and twisted yarn construction
- Lightweight
- Good wear resistance

Applications

General
usage

Tie-up
Lines

Diameter		Size	Weight			Breaking Load		
mm	Inches	Circ. Inches	Ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
4	5/32	3	7	0,7	0,5	283	625	3
5	3/16	3 1/4	11	1,1	0,8	431	951	4
6	1/4	3 1/2	16	1,6	1,1	604	1.331	6
8	5/16	3 3/4	29	2,9	1,9	1.030	2.271	10
10	3/8	4	45	4,5	3	1.570	3.462	15
12	1/2	4 1/2	65	6,5	4,4	2.203	4.856	22
14	9/16	5	89	8,9	6	2.947	6.497	29
16	5/8	5 1/2	116	11,6	7,8	3.773	8.318	37
18	3/4	6	146	14,6	9,8	4.711	10.386	46
20	13/16	3	181	18,1	12,2	5.721	12.612	56
22	7/8	3 1/4	219	21,9	14,7	6.842	15.084	67
24	1	3	260	26	17,5	8.035	17.715	79
26	1 1/32	3 1/4	306	30,6	20,6	9.330	20.570	91
28	1 1/8	3 1/2	354	35,4	23,8	10.707	23.605	105
30	1 1/4	3 3/4	407	40,7	27,3	12.135	26.752	119
32	1 5/16	4	463	46,3	31,1	13.664	30.124	134
34	1 11/32	4 1/4	525	52,5	35,3	15.398	33.946	151

More diameters available by demand.

In accordance to ISO 1346:2021.

- ✓ Raw Material: Polypropylene Split Film
- ✓ Specific Gravity: 0,91
- ✓ Melting Point: 165°C
- ✓ Elongation at % of BS: 25% 6,5%
50% 12%

PP Film Packing Twine

With a production unit in Portugal, Cotesi offers a complete range of PP Film Packing solutions. Customized to your needs and presented in different shapes and sizes.



Packing Twine



Ref.	Runnage			Breaking Load		
	m/kg	ft/lb	tol.	kgf	lbf	kN
170/1	170	260	+/- 8%	210	463	2,1
220/1	220	330		160	353	1,6
300/1	300	450		122	269	1,2
350/1	350	520		103	227	1
450/1	450	650		81	179	0,8
500/1	500	750		72	159	0,7
570/1	570	850		63	139	0,6
700/1	700	1.050		51	112	0,5
900/1	900	1.350		40	88	0,4

Available in 1, 2, 3 and 4 ply in a shape of balls or spools.
Standard colour is Natural.

Applications

Commerce

General
Usage

General Information

Rope Construction

Raw Materials

Care & Use

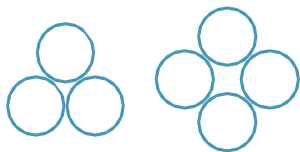
Glossary



Rope Construction

Rope construction plays an important role in resistance to wear and abrasion. Braided ropes have a round, smooth construction that tends to flatten out some-what on a bearing surface. This distributes the wear over a much greater area, as opposed to the crowns of a three-strand.

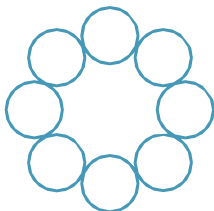
All ropes should be protected against sharp and abrasive surfaces. Wire ropes tend to score and gouge chocks and bitts creating cutting edges that can damage synthetic ropes. Weld beads on repaired capstands, fairleads, etc. are equally damaging unless dressed down smoothly.



3 / 4 Strands

3 OR 4 STRAND TWISTED

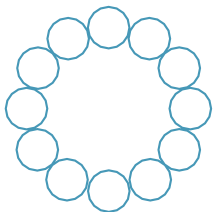
3 or 4 strands is the oldest and simplest rope construction, consisting of 3 or 4 twisted strands laid together. Twisted constructions may retain some torque, and therefore tend to kink up and to rotate under load. Twisted ropes are hard wearing and easily spliced.



8 Strands

8 STRAND BRAIDED

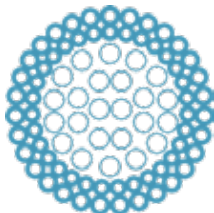
8 strand ropes also called square braided or plaited are constructed of left and right-hand laid strands to give a torque-free rope. They are easily spliceable and provide an excellent rope structure for mooring lines.



12 Strands

12 STRAND BRAIDED

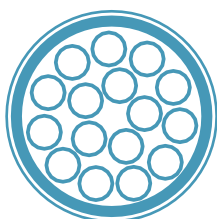
12 strand ropes are constructed of left and right-hand laid strands to give a torque-free balanced construction and its round shape provides excellent abrasion resistance due to a greater surface of contact and may offer higher breaking strengths over conventional constructions. They are easily spliceable and provide a good rope structure for mooring lines.



Double Braid

DOUBLE BRAID

Double Braided ropes are constructed of a braided cover over a braided core. Rope core and cover can be of different braided constructions being the most common one as a core braided 12 strand rope and as cover a 32 braids. As both cover and core play an important role in the rope breaking load, ratio between core and cover must not exceed 60% core.



Jacketed Ropes

JACKET ROPES

Jacket ropes consist on cover over a load bearing core. Most common jackets are of 32 braids whilst the core can be either of a braided or multi parallel strands construction. A load bearing core jacket rope must have a core ratio no less than 70% of the rope. Jacket is used to finalize the rope and protect it during use.

Raw Materials

Different Fibers, Different Characteristics, Different Results

Fiber	Polyamide (PA) 6 unid 6,6	PES (Polyester)	PP (Polypropilene)	PP (Polypropilene) multifilament	PE (Polyethilene)	HMWPE	Mixed (Polyolefin)	Sisal
Brandname	Perlon Nylon Nylsuisse Enkalon	Diolen Trevira Dacron Ersuisse	Leolene Arova	Hostalen Softlene Leolene	Lupolen Vestalen Wetalen	Dyneema	-	-
Tenacity (GF/Denier)	7,5 to 10,5	7,5 to 10,5	6 to 6,5	6 to 6,5 7,3 to 9,5	5,5 to 9,5	32,8 to 39,8	6,5 to 8,5	2 to 2,5
Specific Gravity Kg/DM3	1,14	1,38	0,91	0,91	0,96	0,96	0,94	1,38
Elongation at Break %	14 to 28	14 to 18	14 to 18	20 to 24 16 to 20	16 to 24	3 to 3,5	12 to 18	3 to 12
Creep Resistance	Moderate	Low	High	High	High	Moderate	High	Very Low
Shock Load Absorption	Excellent	Very Good	Very Good	Very Good	Fair	Excellent	Good	Poor
Melting Point C°	215 (PA) 255 (NYLON)	260	170	170	150	150	165	165
Water Absorption %	Yes	Yes	No	No	No	No	No	Yes
Dry Strength compared to wet Strength	85% - 90%	100%	100%	100%	105%	100%	100%	120%
UV Resistance	Good	Excellent	Fair	Fair	Fair	Excellent	Good	Good
Resistance to Abrasion	Very Good	Very Good	Fair	Fair	Fair	Good	Good	Fair

Table Based on the information provided by Cordage Institute Technical Service

EXTENSION AND ELASTICITY

Rope extension and elasticity are important features because they will establish rope behaviour in terms of peak loads. Load-extension characteristics of synthetic fiber ropes are non-linear and time dependent.

Several different components complete overall extension of a rope.

VISCOELASTIC EXTENSION

Viscoelastic extension is only recoverable some time after releasing the load. The performance of ropes subjected to occasional high loads will be significantly influenced by this viscoelastic component.

ELASTIC EXTENSION

Elastic extension is the immediately recoverable extension upon the release of the load and in a continuously working environment that dominates rope behaviour.

PERMANENT EXTENSION

Permanent extension is non-recoverable. It occurs when a new rope is first used or when subject to an unusually high load and is the result of the lay down of individual fiber components to their preferred positions. Continuous loading of some ropes can also lead to permanent extension.

Care & Use

STORAGE

Ropes should be stored on a dry and clean place, out of direct sunlight sources. When possible, it should be stored off the ground, away from metal walls or steam pipes, to allow adequate ventilation and away from chemicals of all types.

Never store rope on concrete or dirty floors, or drag over rough ground – dirt or sand picked up by the rope may cause cuttings on inside fibers during work. In case of long-term storage, ropes should be cleaned with fresh water to reduce salt crystals that may affect its life and efficiency.

HANDLING

When a rope is supplied in a coil it should always be uncoiled from the inside so that the first turn comes off from the bottom in a counter-clockwise direction. When supplied on reels, it must be allowed to freely rotate so that the rope can be drawn off the top layer. Never take rope from a reel lying on its side.

A wrong coil or uncoil on a twisted rope will provoke kinking and hockling. Three and four strand ropes should be coiled in a clockwise direction (in lay's direction) and uncoiled in a counterclockwise direction to avoid hockling and kinking.

Braided ropes can not be kinked or hockled, however, twist can be produced into ropes during service. Excessive twist may cause an imbalance between the right and left hand strands and should be removed as soon as possible by counter-rotating the rope when it is relaxed. The best method for storing both, braided and twisted ropes is in a eight figure fashion.

ROPE SAFETY

Never stand in line with a rope under tension. If a rope fails, it can draw back with sufficient force to cause serious injuries. Always ensure correct safety factors are being used.

ROPE INSPECTION

Avoid using ropes that show signs of aging and wear. Rope should be inspected regularly for evidence of chemical attack, kinking, and surface abrasion including major yarn or strand cuts and heat fusion indicated by glazed or heavy fuzzed areas.

Braided ropes should be examined along their entire length for areas of stiffening or inconsistent diameter, which can be a sign of internal damage or core failure due to overloading or severe shock loads. Both, outer and inner rope fibers contribute to the strength of the rope and when either is worn, rope is naturally weakened.

No type of visual inspection is a guarantee to an accurate determination of residual strength. When the fibers show wear in any given area, if limited to one small section, the damaged area may be cut out and re-spliced, otherwise the rope should be downgraded or replaced.

SPLICING AND KNOTS

The use of knots can reduce rope strength over fifty percent, so whenever possible splices should be used instead. Variations up to twenty five percent can occur with poor splicing or very short length. According to each situation, always take into consideration the corresponding reduction to the rope strength adjusting working loads accordingly. When splices are used, always use recommended splicing procedures of the manufacturer.

The length of an eye in a rope should be a minimum of three times, and preferably five times, the diameter of the item around which it is to be used. This will ensure that the angle between the two legs of the eye will not cause a tearing action to the throat of the eye. For instance, if the eye of a mooring line is passing around a 600 mm diameter bollard, then the eye should be a minimum of 1,80 meters.

BENDING RADIOUS

Sharp bends around any piece of equipment should be avoided as, under load, it decreases rope strength substantially and may cause premature damage and failure. The diameter on fixed pin terminations should be at least 3 times the rope diameter and on rotating sheave blocks, it should be 10 times the rope diameter for twisted ropes and 8 times the rope diameter for braided ropes

WORKING LOADS

Working loads are the loads that a rope is subjected to when in activity. They are normally expressed as a percentage of new rope strength and should not exceed 20% of published strengths (many industries are subject to special working loads regulations that supersede manufacturer's recommendation).

When severe overloaded or shock loads takes place, rope can suffer damages and consequently strength losses without any visible indication, which may weaken the rope causing it to break on next use, even if used under normal working loads. Sharp bends should be avoided as, under load, it decreases rope strength substantially and can cause premature failure.

Glossary

Double Braid Ropes

Double Braided ropes are constructed of a braided cover over a braided core. Rope core and cover can be of different braided constructions being the most common one as core a braided 12 strand rope and as cover a 32 braids. As both cover and core play an important role in the rope breaking load, ratio between core and core must not exceed 60% core.

Double Leg Sling (Grommet)

Loop of rope made by splicing the ends together. Often used as a lifting sling.

Elastic Elongation

Occurs immediately when a load is applied. Disappears as soon as the load is removed.

Elongation

The amount by which a rope stretches. This value is usually a % in length change.

Jacketed ropes

Jacketed ropes consist on cover over a load bearing core. Most common jackets are of 32 braids whilst the core can be either of a braided or multi parallel strands construction. A load bearing core jacket rope must have a core ratio no less than 70% of the rope. Jacket is used to finalize the rope and protect it during use.

LDBF - Line Design Break Force

This is the minimum force at which a new dry, spliced mooring line will break when tested according to MEG4. This applies to all mooring lines with exception of Nylon, which should be tested in a wet condition. MEG4 states that LDBF should have a value between 100% and 105% of the ship design.

MBL - Minimum Break Load

A value that indicates the minimum load or force to be achieved by the rope/line.

Seize

Similar to whipping, often used to bind 2 ropes together with smaller cordage, or to form an eye.

Single Leg Sling

Length of rope formed into a sling by having an eye spliced at each end of it.

Splicing

Method of joining a rope to itself or to another rope, or of producing an eye at the end of the rope. Splicing is done by interweaving the strands of the rope.

TDBF - Tail Design Breaking Force

Mooring tails experience more wear in service than mooring lines. For this reason, the Tail Design Breaking Force needs to be higher than the LDBF. The TDBF should be between 125% and 130% of the ship design MBL. The manufacturer states the TDBF on each mooring tail manufacturer's certificate and on the technical datasheet of the product. Please be aware that the TDBF is tested and defined in a wet condition. So, this is different from the situation for the LDBF.

Twist

"S" twist or "S" lay is a left hand lay. When in a vertical position, the spirals of the rope incline in the same direction as the center of the letter "S". "Z" Twist or "Z" lay is a right hand lay. When it is held in a vertical position, the spirals of the rope incline in the same direction as the center of the letter Z.

Whipping

Binding around the rope made with smaller diameter cordage. Used to tidy a rope end or to secure a splice.

3 or 4 Strand Ropes

Is the simplest rope construction. 3 or 4 twisted strands laid together. Twisted ropes are hard wearing and easily spliced.

8 Strand Ropes

Known as plaited ropes. They are composed of 8 strands grouped into 4 pairs. 2 of these pairs turn to the left and 2 pairs turn to the right.

12 Strand Ropes

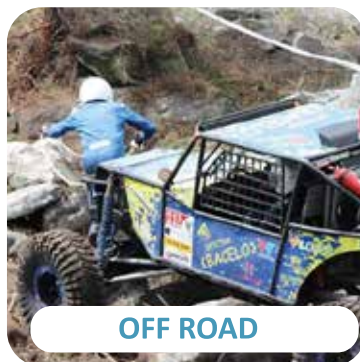
12 strand ropes give a rounder and smoother rope than 8 strands one. This is the ideal construction for rope cores and high strength braids. Like 8-braid ropes, 12-braid ropes are very easy to splice.



INDUSTRIAL



LIFTING



OFF ROAD



SAFETY ROPES

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