



MOORING & TOWING

HIGH PERFORMANCE ROPES



D-TECH WINCHLINE PLUS

With HMWPE cover

Made from HMWPE fibres 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 same weight, 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.

Main Features

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

Applications

- › Mooring lines
- › Anchor lines
- › Winch lines
- › Towing and Tug ropes

› Specific Gravity:
0,98 | Floating

› Melting Point:
150°C / 265°C

› Elongation at % of BS:
25% 0,9% | 50% 1,6%



Diameter		Circ.	Weight			Breaking Load		
mm	inches	inches	ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
22	7/8	2 3/4	260	26	17,5	28 042	61 822	275
24	1	3	310	31	20,8	33 141	73 062	325
26	1 1/32	3 1/4	380	38	25,5	48 029	105 884	471
28	1 1/8	3 1/2	435	43,5	29,2	55 983	123 418	549
30	1 1/4	3 3/4	500	50	33,6	64 956	143 201	637
32	1 5/16	4	640	64	43,0	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	1000
40	1 5/8	5	900	90	60,5	116 248	256 279	1140
42	1 5/7	5 1/4	1000	100	67,2	128 485	283 256	1260
44	1 3/4	5 1/2	1110	111	74,6	140 721	310 232	1380
46	1 3/4	5 1/2	1205	120,5	81,0	152 448	336 085	1495
48	2	6	1320	132	88,7	164 175	361 938	1610
52	2 1/8	6 1/4	1500	150	100,8	195 786	431 628	1920
56	2 1/4	7	1765	176,5	118,6	230 457	508 062	2260

* Other diameters available upon request

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: ± 5%.

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

Produced and tested in accordance to the latest ISO standards.

D-TECH WINCHLINE PLUS

With Polyester cover

Made from HMWPE fibres 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 same weight, 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.

Main Features

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

Applications

- › Mooring lines
- › Anchor lines
- › Winch lines
- › Towing and Tug ropes

- › Specific Gravity: 1,06 | Non-Floating
- › Melting Point: 150°C / 265°C
- › Elongation at % of BS: 25% 0,9% | 50% 1,6%



Diameter		Circ.	Weight			Breaking Load		
mm	inches	inches	ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
22	7/8	2 3/4	290	29	19,5	28 042	61 822	275
24	1	3	340	34	22,8	33 141	73 062	325
26	1 1/32	3 1/4	420	42	28,2	48 029	105 884	471
28	1 1/8	3 1/2	483	48,3	32,5	55 983	123 418	549
30	1 1/4	3 3/4	551	55,1	37,0	64 956	143 201	637
32	1 5/16	4	700	70	47,0	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	60,0	101 972	224 806	1000
40	1 5/8	5	1000	100	67,2	116 248	256 279	1140
42	1 5/7	5 1/4	1150	115	77,3	128 485	283 256	1260
44	1 3/4	5 1/2	1250	125	84,0	140 721	310 232	1380
46	1 3/4	5 1/2	1350	135	90,7	152 448	336 085	1495
48	2	6	1480	148	99,4	164 175	361 938	1610
52	2 1/8	6 1/4	1700	170	114,2	195 786	431 628	1920
56	2 1/4	7	1900	190	127,7	230 457	508 062	2260

* Other diameters available upon request

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: ± 5%.

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

Produced and tested in accordance to the latest ISO standards.

D-TECH WINCHLINE

With HMWPE cover

Made from HMWPE fibres 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 same weight, 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 HMWPE.

Main Features

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

Applications

- › Mooring lines
- › Anchor lines
- › Winch lines
- › Towing and Tug ropes

› Specific Gravity:
0,98 | Floating

› Melting Point:
150°C / 265°C

› Elongation at % of BS:
25% 0,9% | 50% 1,6%



Diameter		Circ.	Weight			Breaking Load		
mm	inches	inches	ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
16	5/8	5 1/2	138	13,8	9,3	14 990	33 046	147
18	3/4	6	190	19	12,8	20 394	44 961	200
20	13/16	3	230	23	15,5	26 513	58 450	260
22	7/8	3 1/4	274	27,4	18,4	31 611	69 690	310
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
42	1 5/7	5 1/4	874	87,4	58,7	97 893	215 814	960
44	1 3/4	5 1/2	963	96,3	64,7	106 051	233 798	1040
46	1 3/4	5 1/2	1020	102	68,5	118 288	260 775	1160
48	2	6	1100	110	73,9	128 485	283 256	1260
52	2 1/8	6 1/4	1380	138	92,7	148 879	328 217	1460
54	2 1/8	6 1/2	1500	150	100,8	161 116	355 193	1580
56	2 1/4	7	1575	157,5	105,8	173 352	382 170	1700
60	2 1/2	7 1/2	1650	165	110,9	200 885	442 868	1970

* Other diameters available upon request

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: ± 5%.

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

Produced and tested in accordance to the latest ISO standards.

D-TECH WINCHLINE

With Polyester cover

Made from HMWPE fibres 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 same weight, 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.

Main Features

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

Applications

- › Mooring lines
- › Anchor lines
- › Winch lines
- › Towing and Tug ropes

› Specific Gravity:
1,06 | Non-Floating

› Melting Point:
150°C / 265°C

› Elongation at % of BS:
25% 0,9% | 50% 1,6%



Diameter		Circ.	Weight			Breaking Load		
mm	inches	inches	ktex	Kg/100m	lbs/100ft	kgf	lbf	kN
16	5/8	5 1/2	158	15,8	13,8	14 990	33 046	147
18	3/4	6	215	21,5	18,7	20 394	44 961	200
20	13/16	3	265	26,5	23,1	26 513	58 450	260
22	7/8	3 1/4	307	30,7	26,7	31 611	69 690	310
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
42	1 5/7	5 1/4	918	91,8	79,9	97 893	215 814	960
44	1 3/4	5 1/2	1009	100,9	87,8	106 051	233 798	1040
46	1 3/4	5 1/2	1100	110	95,7	118 288	260 775	1160
48	2	6	1183	118,3	103,0	128 485	283 256	1260
52	2 1/8	6 1/4	1465	146,5	127,5	148 879	328 217	1460
54	2 1/8	6 1/2	1600	160	139,3	161 116	355 193	1580
56	2 1/4	7	1675	167,5	145,8	173 352	382 170	1700
60	2 1/2	7 1/2	1737	173,7	151,2	200 885	442 868	1970

* Other diameters available upon request

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: ± 5%.

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

Produced and tested in accordance to the latest ISO standards.

D-TECH 12 STRANDS

Made from HMWPE fibres and coated with a PRO-TECH self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech 12 Strands must be considered when high breaking strengths are required.

Using a torque free 12 strand 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.

Main Features

- › 1/7 of steel wire weight
- › Longer lifetime 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

› Specific Gravity:
0,98 | Floating

› Melting Point:
150°C

› Elongation at % of BS:
25% 0,9% | 50% 1,6%



Diameter		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	3.742	8.250	36,7
8	5/16	1	40	4,0	2,7	6.659	14.680	65,3
10	3/8	1 1/8	61	6,1	4,1	10.401	22.930	102,0
12	1/2	1 1/2	87	8,7	5,8	14.990	33.046	147,0
14	9/16	1 3/4	117	11,7	7,9	20.394	44.961	200,0
16	5/8	2	151	15,1	10,1	26.513	58.450	260,0
18	3/4	2 1/4	190	19,0	12,8	31.611	69.690	310,0
20	13/16	2 1/2	232	23,2	15,6	38.749	85.426	380,0
22	7/8	2 3/4	281	28,1	18,9	45.887	101.163	450,0
24	1	3	331	33,1	22,2	53.025	116.899	520,0
26	1 1/32	3 1/4	384	38,4	25,8	61.183	134.884	600,0
28	1 1/8	3 1/2	445	44,5	29,9	69.341	152.868	680,0
30	1 1/4	3 3/4	506	50,6	34,0	78.518	173.101	770,0
32	1 5/16	4	575	57,5	38,6	88.716	195.581	870,0
34	1 11/32	4 1/4	648	64,8	43,5	97.893	215.814	960,0
36	1 1/2	4 1/2	720	72,0	48,4	106.051	233.798	1040,0
38	1 9/16	4 3/4	798	79,8	53,6	118.288	260.775	1160,0
40	1 5/8	5	881	88,1	59,2	128.485	283.256	1260,0
44	1 3/4	5 1/2	1060	106,0	71,2	148.879	328.217	1460,0
48	2	6	1250	125,0	84,0	173.352	382.170	1700,0
52	2 1/8	6 1/2	1460	146,0	98,1	200.885	442.868	1970,0
56	2 1/4	7	1690	169,0	113,6	230.457	508.062	2260,0
60	2 1/2	7 1/2	1930	193,0	129,7	257.989	568.759	2530,0
64	2 5/8	8	2200	220,0	147,8	289.600	638.449	2840,0
68	2 3/4	8 1/2	2480	248,0	166,6	323.251	712.635	3170,0
72	2 7/8	9	2780	278,0	186,8	358.941	791.317	3520,0
76	3	9 3/8	3090	309,0	207,6	396.671	874.495	3890,0
80	3 1/4	10	3430	343,0	230,5	438.480	966.666	4300,0
88	3 5/8	11	4170	417,0	280,2	530.254	1.168.991	5200,0
96	4	12	4970	497,0	334,0	630.187	1.389.301	6180,0

In accordance to ISO 14685-2004.

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

D-TECH 8 STRANDS

Made from HMWPE fibres and coated with a PRO-TECH self-unique impregnation that improves its abrasion resistance and fatigue properties, Cotesi D-Tech 8 Strands must be considered when high breaking strengths are required.

Stronger than steel wire of the same weight, have proven to be a cost-saving replacement for wire rope in several applications. Its 8-strand plaited construction is smooth and non rotational.

Main Features

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

Applications

- › Mooring lines
- › Anchor lines
- › Winch lines
- › Towing and Tug ropes

› Specific Gravity:
0,98 | Floating

› Melting Point:
150°C

› Elongation at % of BS:
25% 0,9% | 50% 1,6%



Diameter		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	520,0
26	1 1/32	3 1/4	384	38,4	25,8	61.183	134.884	600,0
28	1 1/8	3 1/2	445	44,5	29,9	69.341	152.868	680,0
30	1 1/4	3 3/4	506	50,6	34,0	78.518	173.101	770,0
32	1 5/16	4	575	57,5	38,6	88.716	195.581	870,0
34	1 11/32	4 1/4	648	64,8	43,5	97.893	215.814	960,0
36	1 1/2	4 1/2	720	72,0	48,4	106.051	233.798	1040,0
38	1 9/16	4 3/4	798	79,8	53,6	118.288	260.775	1160,0
40	1 5/8	5	881	88,1	59,2	128.485	283.256	1260,0
44	1 3/4	5 1/2	1060	106,0	71,2	148.879	328.217	1460,0
48	2	6	1250	125,0	84,0	173.352	382.170	1700,0
52	2 1/8	6 1/2	1460	146,0	98,1	200.885	442.868	1970,0
56	2 1/4	7	1690	169,0	113,6	230.457	508.062	2260,0
60	2 1/2	7 1/2	1930	193,0	129,7	257.989	568.759	2530,0
64	2 5/8	8	2200	220,0	147,8	289.600	638.449	2840,0
68	2 3/4	8 1/2	2480	248,0	166,6	323.251	712.635	3170,0
72	2 7/8	9	2780	278,0	186,8	358.941	791.317	3520,0
76	3	9 3/8	3090	309,0	207,6	396.671	874.495	3890,0
80	3 1/4	10	3430	343,0	230,5	438.480	966.666	4300,0
88	3 5/8	11	4170	417,0	280,2	530.254	1.168.991	5200,0
96	4	12	4970	497,0	334,0	630.187	1.389.301	6180,0
104	4 1/4	13	5900	590,0	396,5	748.067	1.649.177	7336,0
112	4 5/8	14	6920	692,0	465,0	876.959	1.933.332	8600,0
120	5	15	8010	801,0	538,2	1.014.621	2.236.820	9950,0
128	5 1/4	16	9190	919,0	617,5	1.162.481	2.562.788	11400,0
136	5 1/2	17	10450	1045,0	702,2	1.315.439	2.899.997	12900,0

In accordance to ISO 10325-2009.
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

With a vast experience of over 50 years, Cotesi keeps its focus in the future, being in the front line of innovation and development of pioneer products, and continuously providing new solutions for the increasing demands of its customers.

Noticing a transformation of the paradigm, with a greater focus on mooring and towing products for port operations, Cotesi introduces D-Tech ropes, made from HMWPE fibres and enhanced by a Pro-Tech self-unique coating that improves its performance.

Stronger than steel wire ropes of same weight, D-Tech range has proven to be a cost-saving replacement in several applications.

The deep knowledge of the industry's needs and a strong notion of service turn Cotesi into a partner rather than a supplier.

Our complete range of mooring ropes and towing products provided gives you a full warranty of the highest standards of quality, durability and resistance required for your company's success.



COTESI Companhia de Têxteis Sintético, S.A.

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