



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.	Ktex	Weight		Breaking Load		
mm	Inches	Inches		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: ± 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		
		Circ.						
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



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



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

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	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

- ☒ 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



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

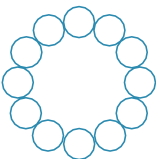
- ☒ Raw Material: HMWPE / Polyester
- ☒ Specific Gravity: 1,06
- ☒ Melting Point: 150°C / 265°C
- ☒ Elongation at % of BS:
25% 0,9%
- ☒ 50%1,6%

Applications



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



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 ¾	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.

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Raw Material: HMWPE
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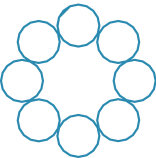
Specific Gravity: 0,98
- ✓

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.



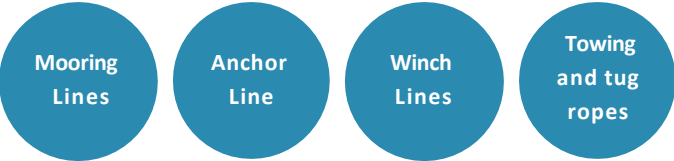
8 Strands



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



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
- ✓

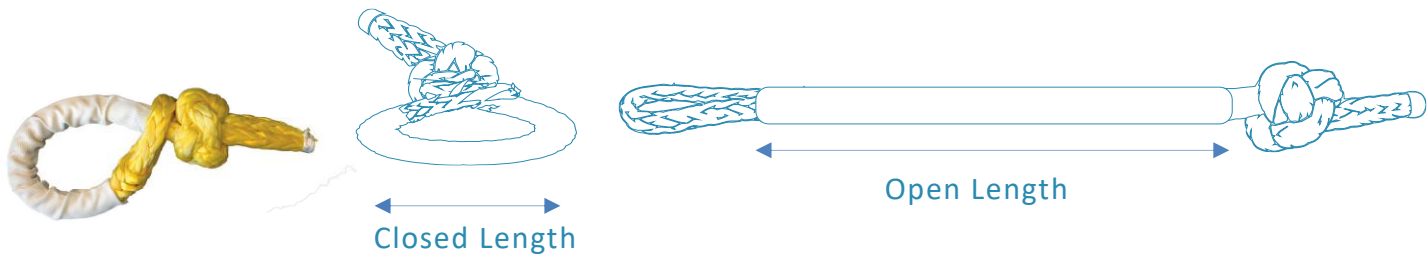
Specific Gravity: 0,98
- ✓

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

