

COTESI[®]

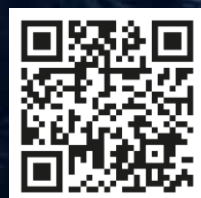
MARINE DIVISION



COTESI in the world



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

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	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

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

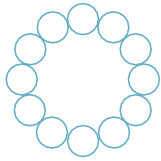
Anchor
Lines

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.

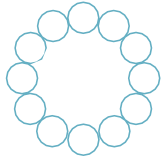
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

- ✓ 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.

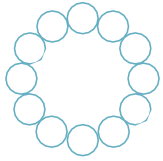
Breaking load values stated shall be reduced by 10% in the case of a rope with eye-spliced terminations.

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

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

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.



12 Strands



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

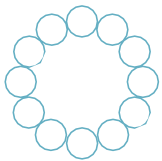
- High Tenacity Polyamide
- Nonfading identifications colours
- Unique coating

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.

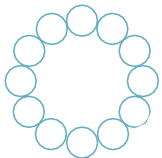


12 Strands



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.

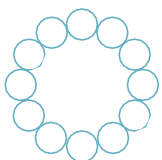


12 Strands



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.

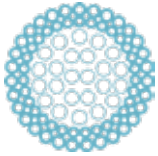


12 Strands



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: $\pm 5\%$

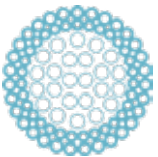
The technical characteristics stated are the result of a Cotesi development and are strictly indicative.

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.

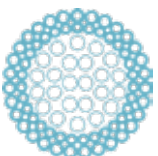


Double Braid



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

Tie-up and
Mooring
Lines

Anchor
Lines

Deck
Lines

Diameter		Size	Weight			Breaking Load		
		Circ.						
mm	Inches	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%

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

Mooring
Lines

Towing
Lines

Diameter		Size	Weight			Breaking Load		
		Circ.						
mm	Inches	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%

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	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: Polyethylene Monofilament (HT)

✓ Specific Gravity: 0,91

✓ Melting Point: 165°C

✓ Elongation at % of BS:
25 % 6,5%
50 % 12,2%

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.

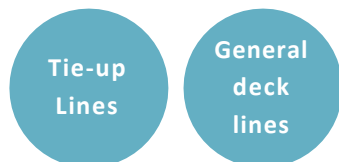


3 / 4 Strands

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%

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

General Information

Rope Construction

Raw Materials

Care & Use

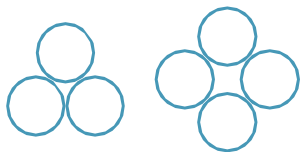
Glossary



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.

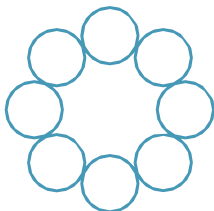
All ropes should be protected against sharp and abrasive surfaces. Wire ropes tend to score and gouge chocks and bitts creating cutting edges that can damage synthetic ropes. Weld beads on repaired capstands, fairleads, etc. are equally damaging unless dressed down smoothly.



3 / 4 Strands

3 OR 4 STRAND TWISTED

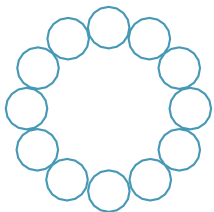
3 or 4 strands is the oldest and simplest rope construction, consisting of 3 or 4 twisted strands laid together. Twisted constructions may retain some torque, and therefore tend to kink up and to rotate under load. Twisted ropes are hard wearing and easily spliced.



8 Strands

8 STRAND BRAIDED

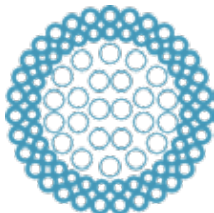
8 strand ropes also called square braided or plaited are constructed of left and right-hand laid strands to give a torque-free rope. They are easily spliceable and provide an excellent rope structure for mooring lines.



12 Strands

12 STRAND BRAIDED

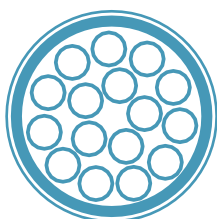
12 strand ropes are constructed of left and right-hand laid strands to give a torque-free balanced construction and its round shape provides excellent abrasion resistance due to a greater surface of contact and may offer higher breaking strengths over conventional constructions. They are easily spliceable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

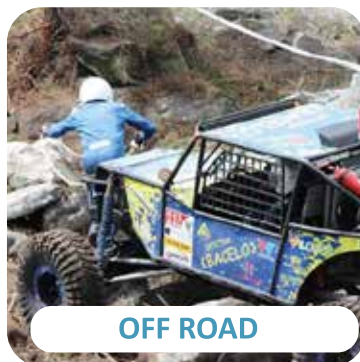
12 strand ropes give a rounder and smoother rope than 8 strands one. This is the ideal construction for rope cores and high strength braids. Like 8-braid ropes, 12-braid ropes are very easy to splice.



INDUSTRIAL



LIFTING



OFF ROAD



SAFETY ROPES

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