Fibre ropes

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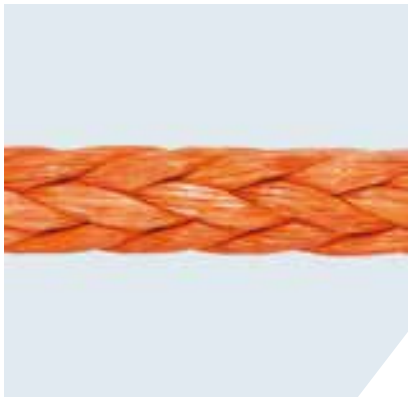
G. VAN DER LEE
ROPE FACTORY SINCE 1545

Dyneema®

HIGH MODULUS POLYETHYLENE 'DYNEEMA® SK75'



TECHNICAL SPECIFICATIONS

Specific gravity:	0.97
Melting point:	150 °C
Elongation at break:	4 - 5%
Colour:	Orange, grey, other colours on request
Construction:	8- and 12-strand

FEATURES AND BENEFITS

- Maximum strength to weight ratio, and strength comparable to steel wire rope
- Lowest elongation
- Longer life, and easy handling
- Super abrasion resistance
- Non-kinking, and non-rotational
- Easy to splice
- Can be overbraided with a jacket for protection

APPLICATIONS

- Mooring lines (to be used with tails)
- Anchor lines
- Towing rope
- Deep sea installation
- Pipe-laying A&R
- Lifting slings and grommets
- Seismic lines
- Fish farms

					OVERBRAIDED		
Diameter mm	Circumfe-rence inches	Weight kg/100mtr	MBL tons	MBL kN	Weight kg/100m	MBL Tons unspliced	MBL kN unspliced
6	¾	2.3	4.2	41.2			
8	1	3.9	6.7	65.7			
10	1¼	5.9	10.8	105.9			
12	1½	9.5	16.5	161.9			
14	1¾	12.8	22.0	215.8			
16	2	16.0	27.5	269.8			
18	2¼	20.8	35.0	343.3			
20	2½	25.5	41.5	407.1	24	27	271
22	2¾	30.5	50.0	490.5	29	34	341
24	3	35.8	58.0	569.0	34	41	402
26	3¼	41.0	66.0	647.4	40	48	471
28	3½	46.5	74.0	725.9	46	56	549
30	3¾	52.0	81.5	799.5	53	65	637
32	4	57.0	88.5	868.2	60	75	736
34	4¼	62.5	96.0	941.7	68	84	824
36	4½	68.0	104.0	1,020.2	77	93	912
38	4¾	74.0	112.0	1,098.7	85	103	1,010
40	5	84.0	127.0	1,245.8	94	116	1,140
42	5¼	93.0	140.0	1,373.4	105	128	1,260
44	5½	102.0	152.0	1,491.1	115	140	1,380
46	5¾	111.0	165.0	1,618.6	126	152	1,495
48	6	121.0	179.0	1,755.9	136	164	1,610
50	6¼	131.0	193.0	1,893.3	148	180	1,765
52	6½	141.0	206.0	2,020.8	160	195	1,920
56	7	163,0	236.0	2,315.1	185	223	2,190
60	7½	175.0	252.0	2,472.0	212	257	2,520
64	8	200.0	282,0	2,766.3	240	293	2,880
68	8½	226.0	316,0	3,099.9	272	332	3,260
72	9	254.0	348.0	3,413.8	307	370	3,630
80	10	313.0	422.0	4,139.7	375	460	4,510
88	11	379.0	503.0	4,934.3	450	545	5,350
96	12	451.0	588.0	5,768.1	530	640	6,280
104	13	531.0	641.0	6,284.3			
112	14	615.0	736.0	7,215.6			
120	15	710.0	836.0	8,196.0			
128	16	805.0	940.0	9,215.6			
136	17	915.0	1,047.0	10,264.7			
144	18	1,020.0	1,169.0	11,460.7			

G. VAN DER LEE
ROPE FACTORY SINCE 1545

Hendrik Veder Group

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SuperLeoMix®

HIGH STRENGTH POLYESTER/POLYPROPYLENE (50:50)

TECHNICAL SPECIFICATIONS

Specific gravity:	1.05
Melting point:	165 °C - 250 °C
Elongation at break:	30 - 35%
Colour:	White
Construction:	8-strand

FEATURES AND BENEFITS

- Optimum strength to weight ratio for ease of handling
- Wet strength equal to dry strength
- Does not absorb water
- Good abrasion resistance against internal and external friction
- Good resistance to frictional heat damage
- Excellent chemical resistance, except in the presence of alkalis
- Manufactured in accordance with OCIMF guidelines
- Remains flexible, easy to splice
- Fully UV stabilised

APPLICATIONS

- Mooring lines
- Mooring tails
- Inland shipping
- General fishing
- Merchant navy

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
32	4	68.5	30.6	300.0
36	4½	79.5	35.2	345.0
40	5	96.6	42.5	417.0
44	5½	112.0	49.1	482.0
48	6	128.0	55.7	546.0
52	6½	149.0	64.2	630.0
56	7	169.0	72.7	713.0
60	7½	190.0	81.1	796.0
64	8	211.0	90.3	886.0
68	8½	246.0	104.0	1,025.0
72	9	267.0	113.0	1,107.0
76	9½	315.0	134.0	1,315.0
80	10	348.0	148.0	1,448.0
88	11	415.0	175.0	1,719.0
96	12	489.0	205.0	2,014.0
104	13	563.0	235.0	2,308.0
112	14	813.0	250.0	2,451.0
120	15	934.0	286.6	2,809.0
128	16	1,060.0	324.0	3,176.0
136	17	1,200.0	365.6	3,584.0
144	18	1,340.0	407.0	3,990.0
152	19	1,500.0	455.4	4,464.0
160	20	1,664.0	505.0	4,951.0
168	21	1,830.0	557.0	5,460.0

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LeoMix®

HIGH STRENGTH POLYESTER/POLYPROPYLENE (20:80)

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
36	4½	52.9	20.8	204.0
40	5	72.2	30.2	296.0
44	5½	91.5	36.5	358.0
48	6	106.0	43.0	422.0
52	6½	126.0	50.5	495.0
56	7	145.0	58.0	569.0
60	7½	164.0	66.0	647.0
64	8	188.0	75.0	736.0
68	8½	213.0	84.5	829.0
72	9	237.0	94.5	927.0
76	9½	261.0	103.0	1,015.0
80	10	295.0	116.0	1,137.0
88	11	352.0	139.0	1,363.0
96	12	417.0	165.0	1,618.0
104	13	492.0	193.0	1,893.0

TECHNICAL SPECIFICATIONS

Specific gravity:	0.99
Melting point:	165 °C - 260 °C
Elongation at break:	25%
Colour:	White
Construction:	8- and 12-strand

FEATURES AND BENEFITS

- Floats in water
- Wet strength equal to dry strength
- Does not absorb water
- Excellent strength
- Excellent chemical resistance, except in the presence of alkalis
- Excellent resistance to frictional heat damage
- OCIMF (MEG3) compliant
- Flexible, easy to handle and splice
- Immense range of uses
- Fully UV stabilised

APPLICATIONS

- Mooring
- General marine applications
- Messenger lines

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LeoTec®

HIGH STRENGTH POLYPROPYLENE

TECHNICAL SPECIFICATIONS

Specific gravity:	0.91
Melting point:	160 °C
Elongation at break:	25% - 30%
Colour:	Blue, yellow; depending on size
Construction:	3-, 4-, 8-, 12- and 24-strand

FEATURES AND BENEFITS

- Floats in water
- Wet strength equal to dry strength
- Does not absorb water
- Excellent strength
- Excellent abrasion resistance
- Flexible, easy to handle and splice
- Fully UV stabilised
- OCIMF (MEG3) compliant
- Immense range of uses

Additional for 12 and 24 strand:
- Flakes down easily and neatly
- Ideal for auto winches and drums
- Non-rotating, torque-free round construction

APPLICATIONS

- Mooring
- General marine applications
- Messenger lines

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	3.0	1.3	12.6
10	1¼	4.5	1.9	18.8
12	1½	6.5	2.9	28.3
14	1¾	9.0	3.8	37.7
16	2	11.5	4.8	47.2
18	2¼	14.8	6.2	60.7
20	2½	18.0	7.4	72.3
22	2¾	22.0	9.0	88.0
24	3	25.9	10.6	104.0
26	3¼	30.4	12.4	121.6
28	3½	35.4	14.1	138.3
30	3¾	40.4	16.0	157.0
32	4	45.9	17.9	175.6
36	4½	58.6	22.0	215.8
40	5	71.8	27.4	268.8
44	5½	88.1	34.0	333.5
48	6	104.0	39.6	388.5
52	6½	121.8	45.8	449.3
56	7	141.8	52.4	514.0
60	7½	163.1	60.0	588.6
64	8	185.0	67.9	666.1
68	8½	209.5	76.7	752.4
72	9	234.1	85.2	835.8
80	10	290.0	105.0	1,030.1
88	11	350.1	126.0	1,236.1
96	12	416.8	149.0	1,461.7
104	13	498.0	171.6	1,683.3
112	14	576.0	200.2	1,964.0
120	15	659.0	221.1	2,169.0
128	16	750.0	244.5	2,398.5
136	17	858.0	277.2	2,719.3
144	18	959.0	305.8	2,999.9

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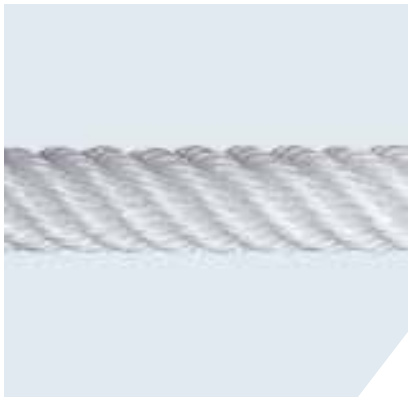
G. VAN DER LEE
ROPE FACTORY SINCE 1545

LeoWinch®

NYLON MONO AND MULTIFILAMENT



Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
18	2¼	22.0	7.0	69.0
20	2½	27.5	9.0	88.0
22	2¾	34.5	11.0	108.0
24	3	40.0	13.0	128.0
26	3¼	46.4	15.3	150.0
28	3½	51.4	16.8	165.0
32	4	65.0	22.0	216.0
36	4½	83.2	26.0	255.0
40	5	100.0	31.0	304.0
44	5½	125.0	42.0	412.0
48	6	148.0	50.0	490.0
52	6½	160.0	54.0	530.0
56	7	200.0	66.5	652.0
60	7½	217.0	70.0	687.0
62	7¾	235.0	79.0	775.0
64	8	245.0	81.0	795.0
68	8½	280.0	94.0	841.0
70	8¾	310.0	103.0	922.0
72	9	335.0	108.0	1,060.0
78	9¾	363.6	120.0	1,177.0
84	10½	425.0	140.0	1,373.0
90	11¾	505.0	165.0	1,619.0
96	12	585.0	190.0	1,864.0

TECHNICAL SPECIFICATIONS

Specific gravity:	1.14
Melting point:	215 °C
Elongation at break:	15%
Colour:	White
Construction:	6-strand

FEATURES AND BENEFITS

- Excellent abrasion resistance
- Excellent UV resistance
- Good chemical resistance, except in the presence of acids
- Workable in sub-zero temperatures
- Resistance to rotting, corrosion and seawater
- Can be stowed wet without any special maintenance
- Very high breaking strength

APPLICATIONS

- Mooring winches
- Mooring lines
- Anchor ropes
- Other heavy duty cables

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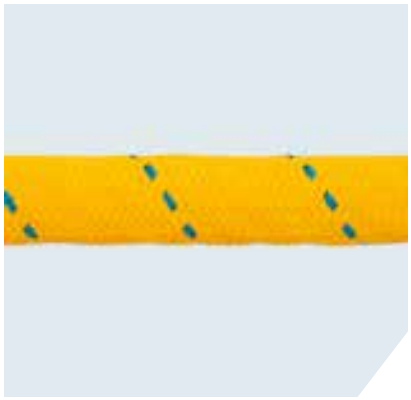
WINCHLINE



Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
40	5	73.0	31.1	305.1
44	5½	89.0	38.6	378.7
48	6	106.0	47.8	468.9
52	6½	125.0	56.4	553.3
56	7	144.0	63.8	625.9
60	7½	166.0	74.0	725.9
64	8	188.0	84.0	824.0
68	8½	214.0	95.0	932.0
72	9	238.0	107.6	1,055.6

TECHNICAL SPECIFICATIONS

Specific gravity:	0.91
Melting point:	185 °C
Elongation at break:	15%
Colour:	Yellow with blue marker
Construction:	Overbraided 12-strand core

FEATURES AND BENEFITS

- Overbraided cover material made from LeoTec yarns but can also be supplied in pure nylon or polyester
- High strength
- Floats in water
- Good abrasion resistance
- Very easy to use on tension winches
- Excellent UV resistance
- Maintains shape under extreme tension

APPLICATIONS

- Mooring line

MOORING TAILS

Van der Lee can also supply nylon and composite fibre mooring tails in order to provide elasticity in a mooring system. This helps to reduce damage to wire and ropes made with Dyneema® fibres by absorbing shock loads.

Grommet construction to give higher breaking strength on request.

All of the above comply with OCIMF (MEG3) guidelines. Synthetic tails should have an MBL of at least 25% higher than that of the mooring line to which they are attached. Polyamide tails should have a 37% higher MBL than the mooring line, to take account of loss of strength when wet.

8-strand SuperLeoMix tail		8-strand Nylon tail	
Diameter mm	MBL tons	Diameter mm	MBL tons
72	113.0	72	90.0
80	148.0	80	110.0
88	175.0	88	131.0
96	205.0	96	156.0

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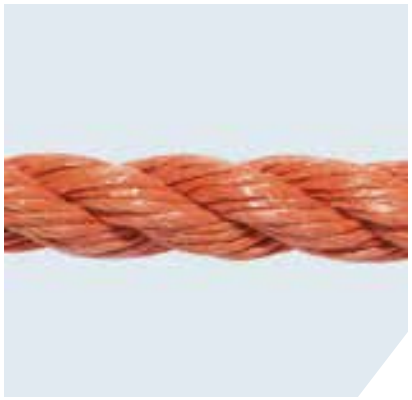
POLYPROPYLENE



TECHNICAL SPECIFICATIONS

Specific gravity:	0.91
Melting point:	160 °C
Elongation at break:	30%
Colour:	Salmon and Orange
Construction:	3-strand, 8- and 12-strand plaited

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	3.0	1.0	9.4
10	1¼	4.5	1.4	14.0
12	1½	6.5	2.0	19.9
14	1¾	9.0	2.8	27.4
16	2	11.5	3.5	34.3
18	2¼	14.8	4.5	43.6
20	2½	18.0	5.4	52.6
22	2¾	22.0	6.5	63.7
24	3	26.0	7.6	74.5
26	3¼	31.0	8.9	86.8
28	3½	35.5	10.1	99.0
30	3¾	41.0	11.5	112.7
32	4	46.0	12.8	125.5
36	4½	58.5	16.1	157.8
40	5	72.0	19.4	190.2
44	5½	88.0	23.4	229.4
48	6	104.0	27.2	266.7
52	6½	122.0	31.5	308.8
56	7	142.0	36.0	352.9
60	7½	163.0	41.2	403.9
64	8	185.0	46.6	456.9
68	8½	210.0	52.6	515.7
72	9	234.0	58.5	573.5
80	10	290.0	72.0	705.9
88	11	351.0	86.4	847.1
96	12	417.0	102.0	1,000.0
104	13	482.0	118.0	1,156.9
112	14	568.0	138.0	1,352.9
120	15	648.0	156.0	1,529.4
128	16	740.0	176.0	1,725.5
136	17	838.0	197.6	1,937.3
144	18	940.0	219.6	2,152.9
152	19	1,047.0	242.0	2,372.5
160	20	1,160.0	266.2	2,609.8

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ROPE FACTORY SINCE 1545

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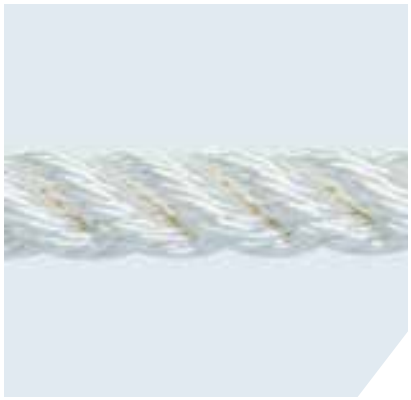
POLYESTER



TECHNICAL SPECIFICATIONS

Specific gravity:	1.38
Melting point:	260 °C
Elongation at break:	30 – 35%
Colour:	White
Construction:	3-strand, 8- and 12-strand plaited

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	5.1	1.3	12.5
10	1¼	8.1	2.0	19.5
12	1½	11.6	2.8	27.8
14	1¾	15.7	4.0	39.0
16	2	20.5	5.1	49.7
18	2¼	26.0	6.4	62.2
20	2½	32.0	7.9	77.8
22	2¾	38.4	9.5	93.3
24	3	46.0	11.4	112.0
26	3¼	53.7	13.3	130.7
28	3½	63.0	15.3	141.5
30	3¾	72.0	17.1	168.0
32	4	82.0	19.6	192.4
34	4¼	93.0	21.9	214.4
36	4½	104.0	24.1	236.5
38	4¾	116.0	27.0	264.7
40	5	128.0	29.9	292.8
44	5½	155.0	35.5	348.0
48	6	185.0	48.6	476.4
52	6½	215.0	56.7	555.8
56	7	251.0	65.7	644.1
60	7½	288.0	72.3	708.8
64	8	328.0	80.7	791.1
68	8½	372.0	91.0	892.1
72	9	415.0	99.5	975.4
80	10	512.0	121.9	1,195.1
88	11	619.0	146.3	1,434.3
96	12	735.0	173.4	1,700.0
112	14	1,000.0	234.4	2,298.0
120	15	1,150.0	268.0	2,627.4
128	16	1,310.0	303.2	2,972.5
144	18	1,660.0	383.2	3,756.8
160	20	2,050.0	474.1	4,648.0
176	22	2,350.0	543.5	5,328.4

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G. VAN DER LEE
ROPE FACTORY SINCE 1545

NYLON

TECHNICAL SPECIFICATIONS

Specific gravity:	1.14
Melting point:	210 °C
Elongation at break:	50%
Colour:	White
Construction:	3-strand, 8- and 12-strand plaited

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	4.0	1.4	13.2
10	1¼	6.3	2.1	20.3
12	1½	9.0	3.0	29.4
14	1¾	12.3	4.1	40.2
16	2	16.0	5.3	51.9
18	2¼	20.3	6.7	65.6
20	2½	25.0	8.3	81.3
22	2¾	30.3	10.0	98.0
24	3	36.0	12.0	117.6
26	3¼	42.3	13.8	135.2
28	3½	49.0	15.8	154.9
30	3¾	56.3	17.8	174.5
32	4	64.0	20.0	196.0
34	4¼	72.3	22.3	218.6
36	4½	81.0	24.8	243.1
38	4¾	90.3	27.3	267.6
40	5	100.0	30.0	294.1
44	5½	121.0	35.8	350.9
48	6	144.0	42.0	411.7
52	6½	169.0	48.8	478.4
56	7	196.0	56.0	549.0
60	7½	225.0	63.8	625.4
64	8	256.0	72.0	705.8
68	8½	289.0	80.8	791.6
72	9	324.0	90.0	882.3
80	10	400.0	110.0	1,078.4
88	11	484.0	131.0	1,284.3
96	12	576.0	156.0	1,509.8
104	13	676.0	182.0	1,784.3
112	14	784.0	210.0	2,058.8
120	15	900.0	240.0	2,352.9
128	16	1,024.0	272.0	2,666.6
136	17	1,156.0	306.0	3,000.0
144	18	1,296.0	342.0	3,352.9
152	19	1,444.0	380.0	3,725.4
160	20	1,600.0	420.0	4,117.6

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ROPE FACTORY SINCE 1545

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MANILA

TECHNICAL SPECIFICATIONS

Construction: 3-strand

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	5.5	0.5	4.7
10	1¼	6.8	0.6	6.2
12	1½	10.5	1.0	9.3
14	1¾	14.1	1.3	12.5
16	2	19.1	1.8	17.4
18	2¼	22.3	2.1	20.8
20	2½	27.7	2.8	27.8
22	2¾	33.2	3.4	33.3
24	3	40.0	4.1	39.8
26	3¼	46.8	4.7	46.2
28	3½	53.6	5.3	52.2
30	3¾	62.7	6.1	59.8
32	4	70.5	6.9	67.2
34	4¼	80.0	7.6	74.7
36	4½	89.5	8.6	84.7
38	4¾	100.0	9.4	92.1
40	5	111.0	10.4	101.9
44	5½	135.0	12.7	124.5
48	6	160.0	14.7	144.1
52	6½	188.0	17.3	169.6
56	7	218.0	19.8	194.1
60	7½	250.0	22.6	221.5
64	8	290.0	25.7	251.9
68	8½	321.0	28.7	281.3
72	9	360.0	32.0	313.7
80	10	444.0	39.1	383.3
88	11	538.0	47.2	462.7
96	12	639.0	55.9	548.0