



**Cardinal SISAL**

Natural light brown, 3 strand, medium lay, ecologically friendly and inexpensive. Hairy surface gives firm hand grip and holds knots strongly. Slightly oiled to resist moisture and weathering. Rustic appearance makes sisal popular for rope hangers and rope handles. Low elongation makes it an ideal tug-o-war rope. Also used for landscaping, barriers, safety nets.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	650	8.71	74.63	137
4	746	10.00	74.60	140
6	450	12.10	37.19	260
8	220	11.18	19.68	475
8	362	18.40	19.67	475
9	220	11.88	18.52	525
10	220	16.16	13.61	625
12	220	22.53	9.76	938
12	286	29.30	9.76	938
14	220	29.17	7.54	1265
16	220	40.61	5.42	1777
18	220	49.56	4.44	2128
20	220	61.20	3.59	2631
22	220	73.00	3.01	3530
24	220	88.00	2.50	3966
26	220	95.00	2.32	4297
28	220	118.80	1.85	5331
32	220	155.76	1.41	6936
48	160	260.00	0.62	14558
64	120	343.6	0.35	25200

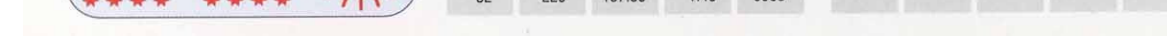
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4.5	600.00	8.74	68.65	140
6	450.00	13.50	37.19	260
8	181.00	9.00	19.68	475
10	133.00	10.11	13.61	625
12	88.00	9.00	9.76	938



**Venhart MANILA**

Brown, 3 strand, medium lay. The best natural fibre rope for strength, abrasion resistance and low elongation. Smooth surface runs freely while slight 'hairiness' gives firm hand grip and holds knots strongly. Treated with lubricant to resist moisture, mildew and internal wear. Used for slings, safety nets, cargo nets, guy ropes, capstan ropes, rope ladders, rope balustrade, tug-o-war ropes.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	450	6.30	71.43	150
5	450	12.11	37.16	250
*6	450	12.71	35.41	266
7	330	11.88	27.78	440
8	220	12.08	18.21	482
8	275	14.40	19.10	540
9	220	13.20	16.67	680
10	220	15.33	14.35	820
12	220	23.79	9.25	953
*14	220	31.41	7.00	1600
*16	220	42.33	5.20	1805
18	220	49.23	4.47	2162
20	220	61.71	3.57	2876
*22	220	71.73	3.07	3400
*24	220	87.38	2.52	4060
*28	220	116.20	1.89	5320
*32	220	157.50	1.40	6938



**Venhart PE SILVER**

Creamy white, 3 strand, soft lay. Strands are twisted from abraded PE mono filaments. Almost as strong as mono-filament polyethylene but much softer, more flexible with greater abrasion resistance and a silky surface that gives better grip and stronger knot holding. Used for truck ropes and nets, fishing ropes, head lines, foot ropes, tarpaulin ties, tent guys. 0.3% UV stabilisation. Made to AS1504-1983.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	650	6.19	105.01	205
4	450	8.22	54.74	370
6	250	7.90	31.65	612
8	220	9.02	24.39	760
10	220	11.00	20.00	930
12	220	15.58	14.12	1245
14	220	20.38	10.79	1416
16	220	28.00	7.86	2083
18	220	35.20	6.25	2250
20	220	43.56	5.05	3112
22	220	53.00	4.15	3625
24	220	62.83	3.50	4287
26	220	73.70	2.99	5060
28	220	85.27	2.58	5830
30	220	97.90	2.25	6690
32	220	111.76	1.97	7600



**Venhart PE MONO**

3 strand, medium/soft lay. Greater tensile strength than PE 'Silver' and the glossy surface runs more freely. Used for fishing rope, head lines, foot ropes, tent guys, truck nets, tarpaulin ties. 6, 8 and 9mm diam. Also available in 'Tiger' - two strands yellow, one black.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
3	600.00	2.12	235.85	110
4	650.00	5.54	117.33	200
5	450.00	5.75	78.26	300
6	450.00	8.23	54.68	392
7	220.00	5.45	40.37	535
**8	220.00	7.14	30.81	687
**9	220.00	9.06	24.28	880
10	220.00	11.18	19.68	1074
12	220.00	16.29	13.51	1516
14	220.00	21.21	10.37	2048
16	220.00	28.60	7.69	2751
18	220.00	35.99	6.11	3404
20	220.00	44.35	4.96	4197
22	220.00	54.30	4.05	5000
24	220.00	77.35	2.84	5800
28	220.00	87.32	2.52	7901
30	220.00	100.00	2.20	9030



**Venline PP**

Superven, 20mm.

8 Strand square laid, 40mm x 220 metres.

10mm x 192 metres.

12mm x 15 metres.

24mm x 220 metres.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
3	650	2.24	255.91	152
4	325	2.75	118.18	237
4	650	5.49	118.40	237
6	450	7.76	57.99	450
6	220	4.98	44.18	635
8	220	6.60	33.33	850
8	330	9.90	33.33	850
9	220	8.31	26.47	1064
10	220	10.30	21.36	1285
10	330	15.44	21.36	1285
**12	220	14.61	15.06	1837
14	220	20.24	10.87	2520
16	220	25.87	8.50	3002
18	220	33.35	6.60	3996
20	220	40.22	5.47	5000
22	220	49.81	4.42	6004
24	220	58.08	3.79	6998
26	220	68.16	3.23	8000
28	220	79.13	2.78	9498
30	220	91.85	2.40	9900
32	220	103.19	2.13	12,048
36	220	132.88	1.66	15,261
*40	220	163.00	1.35	18,400
*48	220	232.20	0.95	25,900
64	220	412.72	0.53	49,000
*64	250	475.00	0.53	49,000

**LEGEND AND TERMINOLOGY**

FIBRE-FILM: PP film split into narrow widths.  
LAY: Tightness and direction of twist. Anti-clockwise = Z. Clockwise = S. Reversed at each stage of construction for best stability and strength. Final twist is usually Z.  
MONO-FILAMENT: Individual filaments of indefinite length.  
MULTI-FILAMENT: Multitude of fine continuous filaments.

STAPLE: Chopped fibres or filaments used for making 'hairy' rope.  
SAFE WORKING LOAD: Approx. 15% of the tensile strength. Higher loads will cause permanent damage.  
TENSILE STRENGTH: The load in tension at which the rope will break. Tensile strength is NOT the Safe Working Load.

Icons: Elongation at breaking point, Does not burn, Strength and tenacity, Recovery from elongation, Resistance to sunlight, Very sensitive to sunlight, Affected by long exposure to sunlight, Great resistance to sunlight, Specific gravity, Burns, Strength when wet, Abrasive resistance and flexibility, Sensitive to.



**Venhart PP STAPLE SPUN**

White, 3 strand, medium lay. Strands are spun from chopped PP fibres (staple). This makes PP staple spun more flexible than other polypropylene ropes and therefore easier to knot and splice. The hairy finish gives better grip and stronger knot holding. Tensile strength\* and abrasion resistance are slightly higher with the same benefits of buoyancy, 100% strength when wet, and low elongation. UV stabilised. Used for mainsheets, mooring warps, rescue lines, tow ropes. (\* Except SUPERVEN)



**Venhart PP MONO**

Railroad, 8mm.

32mm x 220 metres.

16mm x 220 metres.

3mm x 500 metres.

8mm x 299 metres.

8mm x 192 metres.

10mm x 192 metres.

12mm x 15 metres.

24mm x 220 metres.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
3	650.00	2.54	290.18	152
4	650.00	5.75	118.40	237
5	650.00	7.77	83.66	327
6	450.00	7.67	57.99	450
8	300.00	9.00	33.33	850
10	192.00	9.00	21.36	1285
12	134.00	8.84	15.06	1837
14	98.00	9.00	10.87	2520
16	77.00	9.00	8.50	3002



**Venhart PP FIBRE FILM**

3 strand, medium lay. Low stretch and floats on water like mono-filament and staple spun polypropylene with comparable tensile strength, elasticity, energy absorption and abrasion resistance, ie greater than polyethylene but less than nylon and polyester. Retains 100% strength when wet. UV stabilised. Used for truck ropes and nets, ladder ropes, foot ropes, tarpaulin ties, blasting mats, car tow ropes, slings, control ropes.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
5	650.00	7.66	84.86	400
12	220.00	14.50	15.17	2900
22	220.00	48.50	4.54	6500
24	220.00	57.00	3.86	7600
32	220.00	101.00	2.18	12800



**Venhart NYLON**

Multi-filament. Supple and soft, yet stronger and more elastic than any other conventional rope.

3 Strand: Medium lay. Of all 3-strand ropes, nylon gives the highest shock load absorption and is least prone to kink or hockle. Used for anchor warps, towing hawsers, mooring lines, safety lines, fishing ropes, industrial slings, forestry and mountain climbing.

8 Strand Laid: Soft lay. Comparable elongation, elasticity and shock load absorption to 3 strand nylon and almost as strong but softer, more supple and even less prone to kinking and hocking. Grips winches firmly and is easily spliced. Used for ship mooring, towing, target towing. Made to AS1504-1983.

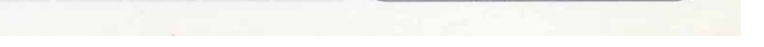
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	450	10.28	43.77	738
8	220	8.98	24.50	1325
10	220	14.42	15.26	2048
12	220	20.48	10.74	2953
14	220	28.86	7.62	4036
16	220	36.35	5.05	5520
18	220	46.04	4.78	7596
20	220	54.74	4.02	7172
24	220	83.95	2.62	12,000
28	220	114.40	1.92	15562
*32	220	149.60	1.47	19678
*40	220	232.32	0.95	29518
*56	220	483.20	0.46	55120



**Venhart POLYESTER**

3 strand, medium lay, multi-filament. Supple, soft on the hands and less prone to kinking and hocking than polypropylene or manila. Second only to nylon for strength and shock absorption with lower elongation and elasticity and no strength loss when wet. Used for mooring and anchor warps, towing hawsers, fender and tender lines, mast stays, lanyards, haylards, fishing net, bolt rope, life lines, safety lines, hoist ropes, control lines industrial rigging and slings. Made to AS1504-1983.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	650.00	6.36	94.79	315
6	450.00	11.32	43.77	738
7	100.00	3.25	30.77	1020
8	209.00	9.00	24.50	1325
10	125.00	8.25	15.15	2048
10	180.00	11.78	15.28	2200
12	93.00	9.00	10.74	2953
12	103.00	10.01	10.74	2953
14	76.00	9.42	7.62	4036



# Venhart TWINES

**COTTON SHOP TWINE**  
Medium, 236 metres.  
Campbells, 15 metre ball.

**RAYON SHOP TWINE**  
Medium, 340 metres.

**JUTE SHOP TWINE**  
Fine, 54.5 metres.  
Medium, 245 metres.

**GARDEN TWINE**  
Sisal 1 ply, 65 metres.  
Jute 3 ply, 60 metres.  
PP, 100 metres.

Pliable, biodegradable, polished twine for secure parcel tying yet soft enough for handicrafts. Retains its strength when wet.  
Tensile strength: Fine 5kg, Medium 25kg, Heavy 30kg.

Stronger than cotton or jute, polished rayon is a cellulose derived twine suitable for all kinds of parcel tying. Like cotton, rayon retains its strength when wet. 6 x 2.7kg reels per pack.

Soft natural fibre twine for parcel tying, handicrafts and gardening. Biodegradable. Tensile strength: Fine 13kg, Medium 25kg, Heavy 32kg. Tex: Fine 917gm, Medium 1838gm, Heavy 3663gm.

Green Jute: Soft, ecologically friendly, natural fibre.  
Polypropylene: Stronger than sisal or jute and rot-proof.

Reels p/ pack	Kg p/ pack	Metres p/ reel	Metres per kg	Tex grams
36	0.34	15.0	1588	630
36	0.56	25.0	1607	622
6	2.70	236.0	1610	621
6	2.70	236.0	524	1908
20	1.00	24.6	524	1908
6	2.70	117.0	260	3845

Metres p/ pack	Metres p/ reel	Metres per kg	Tensile str. kg	Tex grams
3264	544	1209	16	827
2040	340	756	34	1323
1091	182	404	68	2475

Reels p/ pack	Kg p/ pack	Metres p/ pack	Metres p/ reel	Metres per kg
10	0.5	545	54.5	1090
6	2.70	2946	491	1091
6	2.70	1470	245	544
6	2.70	738	123	273

Sisal: Ecologically friendly, inexpensive, natural fibre. Individually wrapped.  
All bar coded, centre-draw spools. Spools per pack: Jute 10, PP 10, Sisal 6. Tensile strength: Jute 23kg, PP 22kg, Sisal (65m) 56kg, (87m) 23kg.

Jute Green 3ply	Kg p/ pack	Metres p/ pack	Metres p/ spool	Metres per kg	Tex grams
1.00	300	30	300	3333	3333
1.00	450	45	450	2222	2222
1.00	600	60	600	1667	1667
1.00	1000	100	1333	750	750
1.24	390	65	316	3169	3169
1.30	522	87	401	2494	2494

**COTTON**

Alkalis, weak acids, organic solvents. Mineral acids, particularly sulphuric. Burns readily, decomposes at 150°C. 1.5

**Rayon**

Organic solvents, acetone, sodium chloride, insoluble formic acids, bleaches in boiling water. Acids strong alkalis and some oxidising agents; cuprammonium liquor. Burns readily, decomposes at 190°C. 1.52

**JUTE**

Solvents and alkalis generally. Sulphuric acid, cuprammonium liquor at 80°C. Burns readily, decomposes at 160°C. 1.5

**NYLON BUILDERS LINE**  
42 ply, 1250 TEX, 800 metres per kg. 40 metre (50g) spools, 100 per box and 80 metre (100g) spools, 50 per box.

# Venhart BRAIDED ROPE AND CORD

**PE SKI ROPE**  
8mm x 200 metres

**POLYESTER YACHT ROPE**  
8mm x 100 metres.

**NYLON BLIND CORD**  
2.5mm x 90 metres.

**COTTON SASH CORD**  
8mm x 165 metres, polyester core.  
COTTON SASH CORD  
5mm x 338 metres, cotton core.

**PE SKI ROPE**  
6mm  
Hollow plaited blue and white HMDPE. 12 mono-filament strands plaited one over one. Used for ski tow rope, load securing, handicrafts, camping.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	200	2.60	76.92	350
7	200	3.20	62.50	480
8	200	4.00	50.00	610

**POLYESTER YACHT ROPE**  
8mm  
8 strands plaited around a parallel core. Less stretch than braided nylon. Grips winches more firmly than 3 strand ropes. Used for spinnaker sheets, control lines, downhulls, reefing lines, outfalls, furling systems, runners, topping lifts.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	100.00	3.17	31.55	556
8	100.00	5.00	20.00	1004
10	100.00	8.17	12.24	1566
12	100.00	13.10	7.63	2239

**NYLON BLIND CORD**  
4.5mm  
8 strand solid braid. Exceptional softness, suppleness, and kink and hockle resistance with the same high strength, elongation, elasticity and capacity for shock load absorption as 3 strand nylon. Used for Venetian and Holland blind cord, handicrafts, camping gear, lacing, apparel drawstrings.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
No 10	2.50	900	3.33	270.27
No 10	2.50	90	0.35	257.14
No 15	3.00	900	4.75	189.47
No 15	3.00	90	0.47	191.49
No 20	4.00	900	8.75	102.86
No 20	4.00	90	0.89	101.12

**COTTON SASH CORD**  
8mm with polyester core.  
Polyester core. Supple and soft on the hands. 8 strands plaited on a polyester core for extra strength and roundness. Can be dyed. Used for awnings, halyards, harnesses, halters. Cotton core. 12 strands plaited on a parallel core. Hard smooth, polished finish. Can be dyed. Used for window sashes, awnings.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6'S	5	338	8.00	42.25
Polyester core	5	226	5.00	67.60
	6	338	3.84	58.85
	7	200	6.00	33.33
	8	165	6.40	25.78
	10	115	5.50	20.91

**COMPACT PE**  
Hard lay braided PE. Green with red tracer. Used for joining fishing nets. 4mm diam. x 300m (Tensile strength 205kg, Tex 6667) and 3.2mm diam. X 390m (Tensile strength 185kg, Tex 5128). 2kg per spool, 8 spools per pack.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	200	2.60	76.92	350
7	200	3.20	62.50	480
8	200	4.00	50.00	610

**NYLON 8 STRAND BRAID WITH CORE**  
12mm with nylon core.  
8 multi-filament strands plaited around a parallel core. Exceptionally soft and supple, yet highest tensile strength, elongation, elasticity and shock load absorption of all synthetic fibres. Used for halyards, winch rope, flag cord, starter cord.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
7	220	6.90	31.88	860
6	100	2.70	37.04	680
7	100	3.17	31.55	860
8	100	3.69	27.10	1360
10	100	6.60	15.15	1815
12	100	8.48	11.79	2500

**POLYESTER HOLLOW BRAID**  
2mm x 810 metres.  
Plaited from 16 multi-filament strands. Less stretch than nylon and almost as supple, soft and strong with better resistance to abrasion. Used for Venetian and Holland blind cord, handicrafts, camping gear, drawstrings. 2kg per reel.

Diam. mm	Reels per pack	Metres per reel gross	Metres per kg gross	Tensile strength kg
Black	1.50	12	1300	650
	1.80	10	1000	500
	2.00	10	810	405
	2.50	10	480	240
	3.00	10	400	200

**POLYESTER HOLLOW BRAID**  
3mm x 400 metres.  
All 2 kg per reel

**FLAT COLOURED POLY TWINE**

**MULTI-COLOURED PP TWINE**

**3 PLY POLYESTER TWINE**  
No 28, 3600 metres.

**FLAT PE TYING MACHINE TWINE**  
No 35, 3000 metres.

Polypropylene film twine in white, red, green, orange purple, pink and blue. 150 x 127.5 gram balls per outer pack. 121.8m per ball. 955.29m per kg. Tex 1046.8gm.

Spools per pack	Grams per ball	Metres per pack	Metres per spool
555 white	150	127.50	121.8
555A colours	150	127.50	121.8

Twisted, fibrillated film polypropylene in white, orange, yellow, blue, maroon, and green. Good knot holding and stronger than natural fibre twines. Ten 65m x 50g spools per pack. 1300 metres per kg. Tex 769.23gm. Tensile strength 25kg.

Second only to nylon for tensile strength, but polyester has lower elongation, lower elasticity and unlike nylon retains its full strength when wet. Especially suitable for wrapping moist items such as meat, poultry and fish. 400 metre centre-draw spools, 20 spools per pack.

PE film twine used with the Venus tying machine. Also handy for lashing, gardening and handicrafts. 12 x 2kg spools per pack. PE28: 3600m per spool, 1800m per kg. Tensile strength 14kg. Tex 556gm. PE35: 3000m per spool, 1500m per kg. Tensile strength 17kg. Tex 667gm.

**PVC COATED CLOTHES LINE**  
Strong polypropylene coated in smooth PVC. Easy to wipe clean. Loops and metal rings at each end for easy installation. 25 metres long.

**PE HOLLOW BRAID**  
Each of the sixteen strands is made of four PE mono-filaments and plaited one over one. Light weight and buoyant with high elongation but low elasticity and therefore low recovery after stretching. Used for load securing, handicrafts, upholstery piping. 4 mm diam. X 650 metre reels. Weight 5.15kg. Metres per kg 126.21 Tensile strength 197kg.

**BAGGY STRING**  
Green high density polyethylene (HDPE) tubing, 220mm wide. Simply twist for tying or use as bags by tying off the end. Handy self-dispensing packs with cutter. 5 packs per box, 60 boxes per carton.

**Venus TYING MACHINE**  
Ties up to 30 parcels per minute using Venhart Flat PE Tying Machine Twine. Fully automatic, operates on standard 240 volt power and applies 15 kg tension. On castors. Two models: VH4045A ties parcels 80 x 120mm to 400 x 450mm. VH5060A ties parcels 50 x 60mm to 500 x 600mm.

**FIBRELASH**  
PT5A 1575 metres.  
PT3A 3152 metres.

**SISAL LASHING**  
2 ply, 291 metres.  
1 ply, 597 metres.

**POLY SISAL PP**  
4 ply, 2750 metres.  
3 ply, 1170 metres.

**PP TOMATO TWINE**  
Used in greenhouses for tying tomatoes, capsicums and other climbing plants. 50 ends - one cut produces 50 identical lengths. Loosely wound to ensure strands separate cleanly with no twisting or tangling. UV stabilised and re-usable for up to 2 years. Two 80 metre coils per pack. Colours: green and red.

Made from tapes of twisted polypropylene film in thicknesses suitable for tying small parcels, large bundles and pallets. Used by timber yards and hardware dealers for tying and bundling. Each centre draw spool is individually shrink wrapped

Metres per pack	Metres per spool	Metres per kg gross	Tensile strength kg	Tex grams	
PT 2	37800	630	1400	25	714

One, two and three ply centre-draw spools, slightly oiled to resist moisture and weathering. Ecologically friendly, inexpensive with low elongation and rustic appearance. Hairy surface gives firm hand grip and holds knots strongly. Used for lashing, landscaping, gardening.

Metres per pack	Metres per spool	Metres per kg gross	Tensile strength kg	Tex grams	
1/200	4772	596.50	205	86	4870
2/200	2328	291.00	100	163	10000
3/200	1559	194.88	67	252	14925

Handles, knots and looks similar to real sisal with hairy surface and natural appearance, but with the lighter weight, buoyancy and higher strength of polypropylene. Available in one, two and three ply centre-draw balls. Used for lashing, bundling, landscaping, gardening, boating.

Metres per pack	Metres per spool	Metres per kg	Tensile strength kg	Tex grams	
2/600*	7500	750.50	600	65	1667
3/130**	1170	292.50	130	245	7692
3/300*	3750	375.00	300	130	3333
3/400*	5000	500.00	400	110	2500
4/100**	900	225.00	100	365	10000
4/220*	2750	275.00	220	160	4545

25 ends, each 2 ply. Used for repetition tying where hanks of 25 strands can be cut to any length required.

Spools per pack	Kg per pack	Metres per pack	Metres per kg	Tensile strength kg	Tex grams
2	2.86	100x160	100x112	25	3575

2.91 kg per spool, 8 spools per pack

PT 3A	PT 4A	PT 5A	PT 6A	PT 7A	PT 8A
12608	8100	6300	5060	3080	2340
3152	2025	1575	1264	770	585
788	506	394	316	193	146
50	78	100	125	207	270
1269	1975	2538	3165	6181	6849

4 kg per reel, 4 reels per pack

\*10 spools per pack - 1.25 kg per spool  
\*\*4 spools per pack - 2.25 kg per spool

**PP MULTI-ENDED LASHING**  
25 ends, each 2 ply. Used for repetition tying where hanks of 25 strands can be cut to any length required.

Spools per pack	Kg per pack	Metres per pack	Metres per kg	Tensile strength kg	Tex grams
1	25	25x210	25x8.40	160	4762

