

Don't go without
Venhart[®]

MalaMala, home to Africa's greatest diversity of wildlife and famous for its conservation successes.

The complete guide to
Venhart Venline and **Cardinal**[®]
ROPE TWINE AND CORDAGE



Loxodonta Africana. The African Elephant weighs up to 6000kg.



Venline PP rope



Crocodylus. Of the 23 living crocodylian species, 3 are native to Africa.



Syncerus Cafer. Even lions fall victim to the Cape Buffalo's horns.

26mm x 220 metres.

Cardinal SISAL



9.5mm

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.

16mm x 220 metres, tarred.



12mm x 220 metres, copper naphthenated.

10mm x 15.2 metres.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg	Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	650	8.71	74.83	137	Coils in cartons:				
4	746	10.00	74.60	140	4.70	684.00	12.93	52.90	189
6	450	12.10	37.19	250	9.50	174.00	12.93	13.46	548
8	220	11.18	19.68	475	14.30	146.30	22.50	6.49	1165
8	362	18.40	19.67	475	15.90	227.00	43.50	5.22	1457
9	220	11.88	18.52	525	Baby coils:				
10	220	16.16	13.61	625	6.30	30.40	0.90	33.78	278
12	220	22.53	9.76	938	10.00	15.20	17.47	14.90	635
12	286	29.30	9.76	938	12.70	15.20	1.70	8.94	850
14	220	29.17	7.54	1265	12.70	30.40	3.40	8.94	850
16	220	40.61	5.42	1777	Copper Naphthenated:				
16	220	49.56	4.44	2128	12	220.00	23.23	9.47	950
20	220	61.20	3.59	2831	Tarred:				
22	220	73.00	3.01	3530	8	220.00	12.00	17.70	260
24	220	88.00	2.50	3966	16	220.00	43.49	4.68	1800
26	220	95.00	2.32	4297	Utility, water and rot proofed:				
28	220	118.80	1.85	5331	12	220.00	21.20	10.38	950
32	220	155.76	1.41	6936	Flanged reels:				
45	160	260.00	0.62	14558	4.5	600.00	8.74	68.85	140
64	120	343.6	0.35	25200	6	450.00	13.50	37.19	250
					8	181.00	9.00	19.68	475
					10	133.00	10 - 11	13.61	625
					12	88.00	9.00	9.76	938

SISAL

Volatiles petroleum solvents, batching oils and alkalis generally.

Mineral acids, paints, detergents, light chemical salts, fungi, moisture and some oils.

Burns as flame touches fibre. Supports combustion, has short afterglow, smells of burning paper and leaves soft grey ash.

13%

1.5

Venhardt PE SILVER



18mm.

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.

POLYETHYLENE

Most acids, alkalis, oils and basic solvents at low temperature.

Zylene at 95° C, hot acids and organic solvents.

Melts, shrinks and curls from flames. Burns rapidly and smells of burning paraffin. Leaves soft round ash.

50%

0.95

Venhardt MANILA



12mm.

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.

Baby coil, 9.5mm x 30.4 metres.

Made to AS1504-1983.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg	Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	450	6.30	71.43	150	Flanged reels:				
5	450	12.11	37.16	250	6	340	9.60	35.41	266
6	450	12.71	35.41	266	8	189	9.00	18.21	482
7	330	11.88	27.78	440	*10	126	9.72	14.35	820
8	220	12.08	18.21	482	12	85	9.00	9.25	953
8	275	14.40	19.10	540	14	64	9.00	7.00	1600
9	220	13.20	16.67	680	Mini coils:				
*10	220	15.33	14.35	820	9.50	30.40	1.90	16.00	680
12	220	23.79	9.25	953	*Conforms to AS1504/83 with black multi-filament of rayon inside one of the three strands.				
*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					

MANILA

Volatiles petroleum solvents, batching oils and alkalis generally.

Mineral acids, paints, detergents, light chemical salts, fungi, moisture and some oils.

Burns at 150° C, supports combustion, smoulders and smells of burning paper.

15%

1.5

Venhardt PE MONO



Pot rope, 9mm.

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	500.00	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
26	220.00	77.35	2.84	5800
28	220.00	87.32	2.52	7901
30	220.00	100.00	2.20	9030



18mm x 220 metres.

5mm x 450 metres.

16mm x 70 metres.

8mm x 250 metres.

Venline PP

8 Strand square laid, 40mm x 220 metres.

Superven, 20mm.

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
4	650	6.19	105.01	205
6	450	8.22	54.74	370
8	250	7.90	31.65	612
9	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	3695
24	220	62.83	3.50	4327
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

Tan coils				
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	250	7.90	31.65	612

Flanged reels				
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
4	650	6.10	106.56	205
5	450	5.60	80.36	260
5	650	8.10	80.25	260
6	536	9.80	54.74	370
8	229	7.25	31.65	612
8	299	9.47	31.65	612
10	180	9.00	20.00	930
10	198	9.90	20.00	930
12	126	9.00	14.12	1245
14	92	9.00	10.79	1416
16	70	9.00	7.86	2083

Venline PP 0.3% UV stabilisation. Yellow or white, 3 strand, medium/soft lay. Easier on the hands and better for coiling, knotting and splicing than polypropylene mono-filament rope.

Venline PP Square Laid

White, 8 strand, soft lay. More flexible and softer to handle than 3 strand, and less prone to kinking and hocking.

Venline SUPERVEN extra strength

30% stronger than standard Venline. Yellow with double black tracer, 3 strand, medium/soft lay.

Venline SUPERVEN 20mm x 220 metres.

POLYPROPYLENE

Hot and cold alkalis and acids.

Sodium hydrochloride and hot organic solvents.

Shrinks rapidly from flame. Curbs and melts at 150° C.

0.91

25.3%

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	5.48	118.40	237
6	450	7.76	57.99	450
7	220	4.98	44.18	635
8	220	6.60	33.33	890
8	330	9.90	33.33	890
9	220	8.31	26.47	1064
10	220	10.30	21.38	1285
10	330	15.44	21.38	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	103.10	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

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

Hanks				
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
6	15.00	0.25	100.00	450
8	15.00	0.45	50.00	850
10	15.00	0.71	50.00	1285
12	15.00	1.00	30.00	1837

Venline SUPERVEN extra strength				
Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
12	220	15.20	14.47	2420
14	220	21.10	10.43	3260
15	220	26.50	8.30	3990
20	220	41.40	5.31	6090
22	220	50.80	4.33	7350
28	220	82.00	2.68	9498

*8 strand square laid. **Also available in 'Railroad' - 2 strands black, 1 yellow.



Tiger rope, 8mm x 220 metres.

Pot rope, 9mm x 330 metres.

Also Pot Rope for hauling crayfish pots. Medium lay, deep orange, in 8 and 9mm diam. 0.3% UV stabilisation.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
Pot rope				
8	330.00	10.56	31.25	730
9	330.00	13.47	24.50	910
Flanged reels				
3	650.00	2.55	235.85	110
4	650.00	5.15	117.33	200
7	354.10	9.00	40.37	535
8	261.00	9.00	30.81	687
10	174.00	9.00	20.00	1074
12	121.00	9.00	13.51	1516
12	134.00			

** Also available in 'Tiger' rope - 2 strands yellow, 1 strand black.

LEGEND AND TERMINOLOGY

- = Poor
- = Acceptable
- = Good
- = Very good
- = Excellent

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.

Elongation at breaking point

Does not burn

Strength and tenacity

Recovery from elongation

Resistance to

Sensitive to

Specific gravity

Burns

Strength when wet

Abrasive resistance and flexibility

Very sensitive to sunlight

Affected by long exposure to sunlight

Great resistance to sunlight

Venhart PP STAPLE SPUN

24mm x 220 metres.



22mm

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

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
5	650.00	7.68	84.86	400
12	220.00	14.50	15.17	2030
22	220.00	48.50	4.54	6500
24	220.00	57.00	3.86	7600
32	220.00	101.00	2.18	12600

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)

Also... BALER TWINES



Venhart PP MONO



16mm x 220 metres.

3mm x 500 metres.

8mm x 298 metres.

Tiger Baby coil, 8mm x 30.5 metres.

Railroad, 8mm x 220 metres.

Railroad, 8mm.

3 strand, medium/soft lay. Buoyant and retains 100% strength when wet. Lowest elongation of the synthetic ropes. Tensile strength, elasticity, energy absorption and abrasion resistance are greater than polyethylene but less than nylon and polyester. Smooth, firm surface. Used for mooring, anchor, towing, fender, tender, heaving and head lines, foot ropes, target tow rope, fishing rope, life lines, water/snow ski tows, pull lines for tension stringing, barrier rope, industrial slings, truck ropes, rope ladders, tarpaulin ties, blasting mats, car tow ropes, control ropes, ducting draw

ords, 6, 8, 9 and 10mm diam. also available in 'Tiger' - two strands yellow, one black. 3mm diam. also available with two strands orange and one black. 8 and 12mm diam. also available in 'Railroad' - two strands black, one yellow. 0.3% UV stabilisation.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
3	650.00	2.56	253.91	152
4	650.00	5.50	118.18	237
5	450.00	5.26	85.55	327
6	450.00	7.22	62.32	450
7	220.00	5.16	42.64	635
**8	220.00	6.65	33.08	850
**9	220.00	8.40	26.19	1064
**10	220.00	10.30	21.36	1285
**12	220.00	14.52	15.15	1837
14	220.00	20.02	10.99	2520
16	220.00	25.87	8.50	3002
18	220.00	33.09	6.65	3996
20	220.00	40.22	5.47	4500
22	220.00	48.81	4.42	6004
26	220.00	68.97	3.19	7500
32	220.00	103.00	2.14	12000
40	220.00	161-163	1.35	18400

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
Flanged reels				
*3	500.00	2.35	181.80	152
3	650.00	2.54	255.91	152
4	650.00	5.49	118.61	237
5	650.00	7.59	85.35	327
**6	450.00	7.22	62.33	450
**8	297.60	9.00	33.08	850
**9	238.30	9.00	26.19	1064
**10	189.00	8.66	21.36	1285
10	192.00	9.00	21.36	1285
12	135.50	9.00	15.15	1837
14	97.80	9.00	10.99	2520
16	76.50	9.00	8.50	3002
Baby coils				
4	30.50	0.26	118.61	237
6	30.50	0.49	62.33	450
8	30.50	0.92	33.08	850

*1 strand black, 2 strands orange
**Available in 'Tiger' rope - 2 strands yellow, 1 black
***Available in 'Railroad' - 2 strands black, 1 yellow.

Venhart NYLON



8 strand, square laid, 40mm.

10mm x 125 metres.

20mm x 220 metres.

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.

NYLON

Acetone, organic solvents, mineral and organic salts. Phenol, strong acids, concentrated formic acids.

Softens at 235° C Melts at 250° C Oxidation occurs at 150° C

46% 1.14

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	15,562
32	220	148.60	1.47	19,678
*40	220	232.32	0.95	29,518
*56	220	483.20	0.46	55,120
Flanged reels				
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	209.10	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

*8 strand square laid.

Venhart PP FIBRE FILM



16mm x 220 metres.

12mm x 135 metres.

Mussel rope 12mm x 220 metres

8mm, lead core.

9mm x 220 metres, green tracer.

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,

head lines, ducting draw cords, 8mm diam. also available in grey with green tracer. 6, 7 and 8mm diam. also available with lead core. 0.3% UV stabilisation. Also PP Mussel Rope, medium lay.

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
5	650	7.59	85.64	327
6	450	7.88	57.11	450
8	220	6.68	32.93	850
**9	220	8.31	26.47	1064
10	220	10.30	21.36	1285
12	220	14.61	15.06	1837
16	220	25.87	8.50	3002
40	220	162.80	1.35	18474
Flanged reels				
6	450.00	8.45	53.25	450
6	536.40	9.24	62.33	450
8	297.60	9.00	32.93	850
10	182.30	9.00	21.36	1285

Diam. mm	Length metres	Weight kg gross	Metres per kg	Tensile strength kg
12	135.50	9.00	15.06	1837
14	99.00	9.00	10.87	2520
16	76.70	9.00	8.50	3002
with lead core				
6	220.00	6.94	31.70	600
7	220.00	8.80	25.00	550
8	220.00	13.06	16.85	830
Mussel rope				
12	220	14.50	15.06	1837

***Grey with green tracer.

Venhart POLYESTER



16mm x 220 metres.

6mm.

6mm x 450 metres.

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, halyards, 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	Metres per kg	Tensile strength kg
6	220	6.03	36.48	556
8	220	11.34	19.40	1004
10	220	16.98	12.96	1566
12	220	25.87	8.50	2239
14	220	33.09	6.65	3132
16	220	45.58	4.83	4016
Flanged reels				
6	450.00	12.33	36.48	556
8	174.40	9.00	19.40	1004
10	109.75	9.00	12.96	1566
12	76.53	9.00	8.50	2239
14	56.82	9.00	6.65	3132

POLYESTER

Solvents at room temperatures, mineral and organic acids. Concentrated sulphuric acid, hot alkalis and organic solvents.

Burns with aromatic smell, leaves hard pellets.

25% 1.38

Venhardt BRAIDED ROPE AND CORD



PE SKI ROPE



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

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.

12mm with nylon core.



8mm x 100 metres. 12mm x 100 metres.

NYLON 8 STRAND BRAID WITH 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 gross	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	8.46	11.79	2500

POLYESTER YACHT ROPE

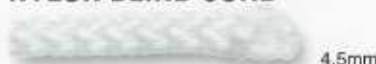
8 strand braided jacket on an 8 strand braided core. Pink.

Diam. mm	Length metres	Weight kg gross	Metres per kg gross	Tensile strength kg
8	100.00	3.17	31.55	556
6	190.00	5.00	20.00	1004
10	100.00	8.17	12.24	1566
12	100.00	13.10	7.53	2239

Brushed polyester yacht rope

8	200	7.00	28.57	560
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NYLON BLIND CORD



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.

No	Diam. mm	Metres per reel	Kg per reel gross	Metres per kg gross	Tensile strength
No 10	2.50	900	3.33	270.27	120
No 10	2.50	90	0.35	257.14	120
No 15	3.00	900	4.75	189.47	179
No 15	3.00	90	0.47	191.49	179
No 20	4.00	900	8.75	102.86	230
No 20	4.00	90	0.89	101.12	230

All 1 reel per pack

POLYESTER HOLLOW BRAID

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.



2mm x 810 metres. 3mm x 400 metres.

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	Kg per reel gross	Metres per kg gross	Tensile strength kg
6'S Polyester core	5	338	8.00	42.25	100
	5	338	5.00	67.60	
	6	226	3.84	58.85	
	7	200	6.00	33.33	
	8	165	6.40	25.78	
	10	115	5.50	20.91	

All 1 reel per pack

	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	
White	2.50	10	480	240	
	3.00	10	400	200	

All 2 kg per reel

Venhardt LASHING



FIBRELASH PT5A 1575 metres. FIBRELASH PT3A 3152 metres. FIBRELASH PT2 630 metres per spool.



SISAL LASHING 2 ply, 291 metres. SISAL LASHING 1 ply, 597 metres. SISAL LASHING 3 ply, 195 metres.



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



Multi-ended PP Tomato twine.

FIBRELASH

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	3780	630	1400	25	714
0.45 kg per spool, 60 spools per pack					
PT 3A	12608	3152	788	50	1269
PT 4A	8100	2025	506	78	1875
PT 5A	6300	1575	394	100	2538
PT 6A	5056	1264	216	125	3165
PT 7A	3080	770	193	207	8181
PT 8A	2340	585	146	270	6849

4 kg per reel, 4 reels per pack

SISAL LASHING

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 and gardening.

	Metres per pack	Metres per spool	Metres per kg gross	Tensile strength kg	Tex grams
1/200	4772	596.50	205	86	4670
2/200	2328	291.00	100	163	10000
3/200	1559	194.88	67	252	14925

2.91 kg per spool, 8 spools per pack

POLY SISAL PP

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

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

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.

	Spools per pack	Kg per pack	Metres per pack	Metres per kg	Tensile strength kg	Tex grams
PP Tomato twine	2	2.86	100x160	100x112	25	3575
Multi-ended PP	1	25	25x210	25x8.40	160	4762

Venhardt TWINES

Medium,
236 metres.

COTTON SHOP TWINE



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.

PP, 100 metres.

Jute 3 ply,
60 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.

	Reels p/pack	Kg p/pack	Metres p/reel	Metres per kg	Tex grams
Fine (104'S)	36	0.34	15.0	1588	630
Fine (104'S)	36	0.56	25.0	1607	622
Fine (103'S)	6	2.70	724.5	1610	621
Medium (5'S)	6	2.70	236.0	524	1908
Medium (5'S)	20	1.00	24.6	524	1908
Heavy (3'S)	6	2.70	117.0	260	3845

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.

	Metres p/pack	Metres p/reel	Metres per kg	Tensile str. kg	Tex grams
No 6-104'S	3264	544	1209	16	827
No 8-5'S	2040	340	756	34	1323
No 4'S	1091	182	404	68	2475

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.

	Reels p/pack	Kg p/pack	Metres p/pack	Metres p/reel	Metres per kg
Fine (204'S)	10	0.5	545	54.5	1090
Fine (204'S)	6	2.70	2946	491	1091
Med. (202'S)	6	2.70	1470	245	544
Heavy (804'S)	6	2.70	738	123	273

Green Jute: Soft, ecologically friendly, natural fibre.

Polypropylene: Stronger than sisal or jute and rot-proof.

Cardinal

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.

	Kg p/pack	Metres p/pack	Metres p/spool	Metres per kg	Tex grams
Jute Green 3ply	1.00	300	30	300	3333
Jute Green 3ply	1.00	450	45	450	2222
Jute Green 3ply	1.00	600	60	600	1667
PP Green	0.75	1000	100	1333	750
Sisal 1 ply	1.24	390	65	316	3168
Sisal 1 ply	1.30	522	87	401	2494

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.



COTTON

Alkalis, weak acids, organic solvents. Mineral acids, particularly sulphuric.

Burns readily, decomposes at 150° C

1.5

25%

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

22%

JUTE

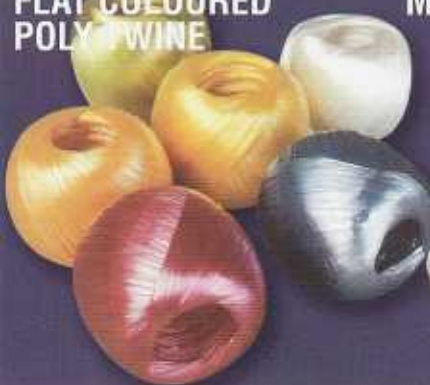
Solvents and alkalis generally. Sulphuric acid, cuprammonium liquor at 80° C

Burns readily, decomposes at 180° C

1.5

2%

FLAT COLOURED POLY TWINE



MULTI-COLOURED PP



3 PLY POLYESTER TWINE



400 metres.

FLAT PE TYING MACHINE TWINE

No 28, 3600 metres.



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	18270	121.8
555A colours	150	127.50	18270	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 789.23gm. Tensile strength 25kg.

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.

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.

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 Venhardt 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.



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.

555 Church Street, Richmond, Vic. 3121, Melbourne, Australia.
Phone: (03) 9428 1652. Fax No: (03) 9429 5506.
www.venuspack.com.au Email: packaging@venuspack.com.au



WARNING: All data in this brochure is provided as a guide only and should not be used in writing specifications. Purchasers should test any product offered herein to determine suitability for their particular purpose. Oct. 2002.