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INTRODUCTION

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SYNTHETIC LIFTING,
TOWING & RECOVERY

Synthetic slings offer several advantages to users, including light weight and flexibility, shock absorbency and an ability to conform to the shape of the load. They will not damage delicate surfaces and allow for quick and easy inspection.

A wide range of soft sling protection sleeves are available to help prevent sling damage from abrasion, with some more recent advances including high abrasion resistant kevlar sleeves and anti-cut corner pads.

If you are having trouble deciding between a flat web sling and an endless round sling, refer our handy guide on the following page to assist you in making the best selection.

FLAT WEB SLINGS

Liftec economy range

- A range of stock lengths in Working Load Limits from 1 tonne to 10 tonne
- Colour coded to comply with AS 1353.1
- Manufactured in China

Custom Manufactured

- Manufactured in New Zealand to order by Cookes
- Eye & eye web slings manufactured to required length in Working Load Limits from 1 tonne to 10 tonne
- Endless Web Slings manufactured to required length up to 20 tonne Working Load Limit
- End fittings and wear protection sleeving can be fitted to requirements
- Colour coded to comply with EN 1492-1

Special Imports

- 4-ply eye and eye slings available from Australia in Working Load Limits up to 20 tonne
- Colour coded to comply with AS 1353.1

ENDLESS ROUND SLINGS

Double Cover Round Slings

- With 2 outer covers for longer life
- A range of stock lengths in Working Load Limits from 1 tonne to 50 tonne
- Colour coded to comply with EN 1492-2

Special Imports

- A range of heavy duty round slings available from Australia in Working Load Limits up to 150 tonne
- Colour coded to comply with AS 1353.1

Endless Stage Slings

- A range of 2.4 tonne Working Load Limit heat resistant slings for theatre and stage use

High Performance Twin-Path Slings

- The world's top performing slings manufactured from high spec fibres
- Packed with unique features
- Available in Working Load Limits up to 500 tonne
- Manufactured under license in Australia

Synthetic Sling Protection

- A range of protective sleeves and pads for abrasion or cut resistance.

Custom Manufactured Recovery & Towing Straps

- Manufactured in New Zealand by Cookes
- SnatchMaster 4WD recovery straps and associated hardware
- Heavy vehicle, high Elongation Nylon Recovery Straps up to 36 tonne Minimum Breaking Load
- Light vehicle tow straps
- Polyester tow straps up to 72 tonne Minimum Breaking Load

Black Snake Towing & Recovery Straps

- A unique range of vulcanised rubber covered straps with hard eyes
- High elongation recovery straps with nylon inner core, up to 100 tonne Minimum Breaking Load
- Low elongation tow straps with Kevlar inner core, up to 400 tonne Minimum Breaking Load
- 6 metre straps up to 100 tonne MBL held in New Zealand stock

OUR WORLD LEADING PARTNERS...



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

WHICH SLING DO I CHOOSE?

Both web slings and round slings are an excellent choice where delicate or highly finished products must be protected from damage during lifting. They are both light weight and easy to handle and absorb shock better than either chain or wire rope. They are non-conductive which means they are safe for use in explosive atmospheres.



FLAT WEB SLINGS

- Web slings adjust well to load contour.
- Web slings are available in wide widths which provides greater surface contact aiding load control during lifting.
- Web slings are colour coded for quick identification of Working Load Limit.
- Locally manufactured web slings are available with various eye types (flat eyes, reduced eyes, reduced and reversed eyes) to suit the connection hardware being used or the type of lift. For example, flat eyes allow the web sling to be more easily passed under items such as pallets.
- Numerous types of sleeves are available for flat slings protecting sling fibres from damage.

Web slings can be manufactured using a variety of end fittings with matching Working Load Limits – refer to your Cookes branch for more information. For chemical resistance information refer to chart on page 136.

ENDLESS ROUND SLINGS

- Round slings are constructed from a continuous loop of polyester yarn enclosed within a woven sleeve.
- Round slings allow the wear points to be moved around to extend sling life.
- Round slings are extremely pliable with limited stretch.
- Round slings comply with the shape of any load to grip securely.
- The round sling cover protects the internal load bearing yarns from UV degradation.
- Round slings offer very good shock absorbency.
- Round slings are light weight and colour coded for quick identification of Working Load Limit.
- Round slings are available with considerably higher Working Load Limits than flat web slings.



INTERESTING FACTS:

Did you know that the first round sling with a seamless cover was invented by Ruben Henry Norman from Sweden and was patented in 1972?

In 1980 another Swedish inventor, Bengt Lindahl received a patent for a round sling that had sewn seams. Bengt worked for the Svensk Lasthantering AG Company in Sweden, a company later purchased by the Bridon Group.

The Twin-Path® round sling consisting of two separate and independent high performance yarn cores was invented by Dennis St.Germain of Slingmax® Inc. in 1987.



High Performance Twin-Path® Sling



• Cookes can provide removable kevlar sleeves for both flat web slings and endless round slings. Refer page 157.

WORKING LOAD LIMITS

SYNTHETIC SLING WORKING LOAD LIMITS

Colour Coded Synthetic Lifting Sling Working Load Limits

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SYNTHETIC LIFTING,
TOWING & RECOVERY

Lifting Mode	Vertical	Choke	Basket				2 Leg	3 – 4 Leg
								
Colour	Single	Single	Parallel	30°	60°	90°	0° – 90°	0° – 90°
	t	t	t	t	t	t	t	t
Violet	1.0	0.8	2.0	1.9	1.7	1.4	1.4	2.1
Green	2.0	1.6	4.0	3.8	3.4	2.8	2.8	4.2
Yellow	3.0	2.4	6.0	5.7	5.1	4.2	4.2	6.3
Grey	4.0	3.2	8.0	7.6	6.8	5.6	5.6	8.4
Red	5.0	4.0	10.0	9.5	8.5	7.0	7.0	10.5
Brown	6.0	4.8	12.0	11.4	10.2	8.4	8.4	12.6
Blue	8.0	6.4	16.0	15.2	13.6	11.2	11.2	16.8
Orange	10.0	8.0	20.0	19.0	17.0	14.0	14.0	21.0
Orange	15.0	12.0	30.0	28.5	25.5	21.0	21.0	31.5
Orange	16.0	12.8	32.0	30.4	27.2	22.4	22.4	33.6
Orange	20.0	16.0	40.0	38.0	34.0	28.0	28.0	42.0
Orange	30.0	24.0	60.0	57.0	51.0	42.0	42.0	63.0
Orange	50.0	40.0	100.0	95.0	85.0	70.0	70.0	105.0

Round slings available in larger sizes on request.

WORKING LOAD LIMITS (TONNES) IN ACCORDANCE WITH STANDARD, EN1492 & ASI353.1

Flat Slings or Round Slings in accordance with EN1492-1 and EN1492-2 have a design factor of 7:1.

Flat Slings in accordance with ASI353.1 have a design factor of 8:1.

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in general lifting service under equal loading.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for a WLL lower than the designated figure, the degree of hazard should be assessed by a competent person and the Working Load Limit adjusted accordingly.



• Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 1,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09361100	1.0	50	1.0	0.24	Violet
09361200	2.0	50	1.0	0.24	Violet
09361300	3.0	50	1.0	0.24	Violet
09361400	4.0	50	1.0	0.24	Violet
09361500	5.0	50	1.0	0.24	Violet



Double Ply Flat Slings – 2,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09362100	1.0	60	2.0	0.46	Green
09362150	1.5	60	2.0	0.46	Green
09362200	2.0	60	2.0	0.46	Green
09362250	2.5	60	2.0	0.46	Green
09362300	3.0	60	2.0	0.46	Green
09362350	3.5	60	2.0	0.46	Green
09362400	4.0	60	2.0	0.46	Green
09362500	5.0	60	2.0	0.46	Green
09362600	6.0	60	2.0	0.46	Green
09362800	8.0	60	2.0	0.46	Green



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



 • Refer Synthetic Sling Protection starting page 157 for protective sleeving options.

 • Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 3,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09363100	1.0	90	3.0	0.70	Yellow
09363150	1.5	90	3.0	0.70	Yellow
09363200	2.0	90	3.0	0.70	Yellow
09363250	2.5	90	3.0	0.70	Yellow
09363300	3.0	90	3.0	0.70	Yellow
09363350	3.5	90	3.0	0.70	Yellow
09363400	4.0	90	3.0	0.70	Yellow
09363500	5.0	90	3.0	0.70	Yellow
09363600	6.0	90	3.0	0.70	Yellow



Double Ply Flat Slings – 4,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09364150	1.5	120	4.0	0.90	Grey
09364200	2.0	120	4.0	0.90	Grey
09364250	2.5	120	4.0	0.90	Grey
09364300	3.0	120	4.0	0.90	Grey
09364350	3.5	120	4.0	0.90	Grey
09364400	4.0	120	4.0	0.90	Grey
09364500	5.0	120	4.0	0.90	Grey
09364600	6.0	120	4.0	0.90	Grey



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.



• Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 5,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09365200	2.0	150	5.0	1.35	Red
09365300	3.0	150	5.0	1.35	Red
09365400	4.0	150	5.0	1.35	Red
09365500	5.0	150	5.0	1.35	Red
09365600	6.0	150	5.0	1.35	Red



Double Ply Flat Slings – 6,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09366400	4.0	180	6.0	1.55	Brown
09366500	5.0	180	6.0	1.55	Brown
09366600	6.0	180	6.0	1.55	Brown
09366800	8.0	180	6.0	1.55	Brown



Double Ply Flat Slings – 8,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09368400	4.0	240	8.0	2.15	Blue
09368500	5.0	240	8.0	2.15	Blue
09368600	6.0	240	8.0	2.15	Blue
09368800	8.0	240	8.0	2.15	Blue



Double Ply Flat Slings – 10,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09370500	5.0	300	10.0	2.80	Orange
09370600	6.0	300	10.0	2.80	Orange
09370800	8.0	300	10.0	2.80	Orange
09370910	10.0	300	10.0	2.80	Orange



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.



• Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED HIGH CAPACITY

CS Series Web Lifting Slings



SpanSet Item No.	WLL	Width	Ply
	t	mm	
CS12000*	12	180	4
CS16000*	16	240	4
CS20000*	20	300	4

* Available on indent.

SpanSet 4 ply flat slings are manufactured with reinforced eyes for greater durability. Wide load bearing surface to minimize damage to fragile loads.

- Lightweight for enhanced manual handling safety.
- Excellent strength to weight ratio.
- Light and flexible for good access in awkward situations.
- More lifting power due to four layers.
- Heavy-duty flat sling 12 tonne up to 20 tonne.
- No damage during lifting due to wide supporting surface.
- Optional with loop or D-ring.
- Optimum handling due to low weight.
- Exceptional lateral strength.
- Certified to AS1353 with 8:1 design factor.
- Manufactured in Australia.



• Never exceed manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COOKES CUSTOM MANUFACTURED EN1492-1

Cookes can custom manufacture flat lifting slings in-house to your specific requirements. With highest quality webbing manufactured in Australia, we can produce flat slings in Working Load Limits up to 20 tonne. Various end components can be fitted along with abrasion-resistant sleeving.

Available Configurations



RA2	RA3	RA4	RA1	RA5
Reduced Eyes	Reduced & Reversed Eyes	Flat Eyes	Metal End Fittings	Endless Flat Slings
Where small hooks are used. Reinforced eyes for greater durability. STANDARD OPTION	For choker lift. Gives square lift to load on same plane as webbing. Reinforced eyes for greater durability.	Where minimum clearance is required for passing under load and for use with lifting beams. Reinforced eyes for greater durability.	Best suited to lift where eyes get excessive wear.	Best suited to awkward loads where stability is easily achieved by spreading of the sling legs.

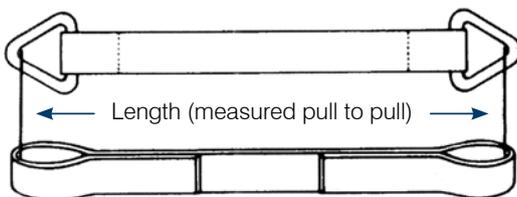
ORDERING YOUR NEW COOKES CUSTOM MANUFACTURED WEB SLING.

Please specify at the time of order:

- Sling Type RA1, RA2, RA3, RA4 or RA5 (refer above).
- Any end fittings required.
- Sling length (pull to pull).
- Working Load Limit.
- Any protective sleeving requirements.

Eye and Eye Web Slings

- Complies with EN1492-1.
- Design factor 7:1.
- Various eye designs available (reduced eyes as standard).
- Working Load Limits up to 10 tonne.
- All slings colour coded.
- Manufactured in New Zealand by Cookes.



High Performance Web Slings manufactured in New Zealand

Working Load Limit in tonnes Vertical Lift*		Width (mm)	Colour Code
Eye & Eye (2 Ply)	Endless (1 Ply)		
1.0	1.0	50	Violet
2.0	2.0	60	Green
3.0	3.0	100	Yellow
4.0	4.0	140	Grey
5.0	5.0	150	Red
6.0	6.0	180	Brown
8.0	8.0	240	Blue
10.0	10.0 (1 Ply) 20.0 (2 Ply)	300	Orange

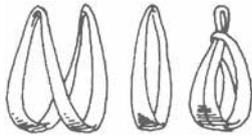
* For other lifting mode factors refer page 134.

i • Specials such as Cradle Slings and Travelift Slings manufactured to order. Refer your nearest Cookes branch.
• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.

! • Never exceed manufacturer's Working Load Limit (WLL).

CARE & SAFE USE OF FLAT SLINGS

CARE & SAFE USE OF FLAT WEB LIFTING SLINGS



Determine required Working Load Limit



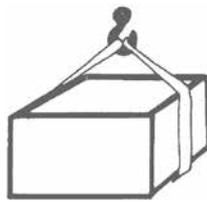
Don't pull sling from under load
The full weight of the load on sling can damage the sling and reduce performance.



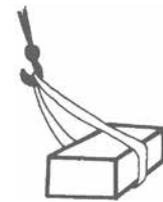
Don't knot a sling
Slings should never be joined by knots. Tying knots seriously weakens sling life and capacity.



Balance load
Use more than only one sling if necessary for balance. Avoid load slippage. There's safety in sling numbers.



Match sling-to-load angle on Working Load Limit chart
Never exceed published Working Load Limit (WLL).



Avoid abrasive surfaces
Don't drag slings on flooring or over equipment.



Acids and caustics
Don't use polyester slings around caustics. Don't use nylon slings around acids.
Don't use any slings in temperatures over 90°C.



Protect load and slings with proper guards
Watch for corners, sharp edges and protrusions.

CHEMICAL RESISTANCE GUIDE

General Guideline Only To Polyester & Nylon Webbing Chemical Resistance

Product	Acids	Alcohols	Aldehydes	Strong Alkalis	Weak Alkalis	Bleaching Agents	Dry Cleaning Solvents	Ethers
Polyester	*	✓	NO	**	✓	✓	✓	NO
Nylon	NO	✓	✓	✓	✓	NO	✓	✓
Product	Halogenated Hydrocarbons	Hydrocarbons	Ketones	Oils Crude	Oils Lubricating	Soap & Detergents	Water	Sea Water
Polyester	✓	✓	✓	✓	✓	✓	✓	✓
Nylon	✓	✓	✓	✓	✓	✓	✓	✓

* Disintegrated by concentrated sulphuric acid. ** Degraded by strong alkalis at elevated temperatures.



- Read and understand all safety instructions prior to using a web lifting sling.
- Always use protective sleeves or pads where cutting or abrasion may occur.



- Failure to follow the safety instructions when using synthetic slings can lead to serious injury or loss of life!

CARE & SAFE USE OF FLAT SLINGS

CARE & SAFE USE OF FLAT WEB LIFTING SLINGS

Webbing slings must be inspected prior to every use. Look for:

- Any external wear such as abrasion or cuts and contusions.
- Internal wear which is often indicated by a thickening of the sling or the presence of grit and dirt.
- Damage caused by high temperatures, sunlight or chemicals (indicated by discolouration).
- Damage to the label or stitching.
- Damage to the eyes or to any end fittings.

Discard a web sling if:

- There is excessive surface wear, cross or longitudinal cuts in the webbing. Cuts or chafe damage to the edges, crystallisation of the webbing (caused by exposure to excessive heat), or local weakening of the webbing so that surface fibres can be plucked or rubbed off.
- The label has been removed or is illegible.
- End fittings are pitted, corroded, cracked or otherwise damaged.
- There is any damage to protective sleeving.
- A nylon sling comes into contact with acid.
- A polyester sling comes into contact with strong alkaline substances.

Storage:

- Proper storage is essential to prevent deterioration and damage to web slings. Wet slings must be allowed to dry naturally before being stored. Under no circumstances should slings be heated or otherwise force dried. Slings must be stored in locations that have the following conditions:
- Clean and free from dirt and grit.
- Dry and ventilated to prevent condensation.
- Off the ground and without contact with any surface that may corrode.
- Away from the following:
 - Direct sunlight and ultraviolet rays.
 - Sources of heat (e.g. steam pipes, furnaces).
 - Sparks from any sources.
 - Chemically degrading atmospheres, including damaging fumes.
 - Chemically degrading materials, incl. liquids that may leak from containers.
 - Locations where mechanical damage is likely to occur, i.e. on or underneath racks containing heavy objects that could inadvertently damage the slings.



• Cookes' experienced personnel can inspect your web slings and reuse hardware where deemed safe on a new sling.



• Cookes recommend use of abrasion-resistant or cut-resistant sleeving with web slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options..



• Never exceed manufacturer's Working Load Limit (WLL).



• Never attempt to repair a damaged web sling.

CARE & USE OF FLAT SLINGS

CARE & SAFE USE OF FLAT WEB LIFTING SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Recognising Webbing Damage

Remove flat web lifting slings from service if any of the following damage is visible:

	<p>Holes, tears, snags, cuts.</p>
	<p>Chemical damage.</p>
	<p>Broken or worn stitching in areas of the load bearing webbing.</p>
	<p>Melting or charring of the webbing, or weld splatter.</p>
	<p>Excessive abrasion.</p>
	<p>Any damage to eyes</p>



- Cookes recommend use of abrasion-resistant or cut-resistant sleeving with web slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options.



- Never attempt to repair a damaged web sling.
- Always use protective sleeves or pads where any possibility of abrasion or cutting exists.

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Violet 1T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09301051	0.5	4.7	38	17	0.3
09301075	0.75	4.7	38	17	0.3
09301101	1.0	4.7	38	17	0.3
09301151	1.5	4.7	38	17	0.3
09301201	2.0	4.7	38	17	0.3
09301251	2.5	4.7	38	17	0.3
09301301	3.0	4.7	38	17	0.3
09301351	3.5	4.7	38	17	0.3
09301401	4.0	4.7	38	17	0.3
09301501	5.0	4.7	38	17	0.3
09301601	6.0	4.7	38	17	0.3



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Polyester Round Slings – Green 2T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09302051	0.5	7.0	57	21	0.5
09302101	1.0	7.0	57	21	0.5
09302151	1.5	7.0	57	21	0.5
09302201	2.0	7.0	57	21	0.5
09302251	2.5	7.0	57	21	0.5
09302301	3.0	7.0	57	21	0.5
09302351	3.5	7.0	57	21	0.5
09302401	4.0	7.0	57	21	0.5
09302501	5.0	7.0	57	21	0.5
09302601	6.0	7.0	57	21	0.5
09302801	8.0	7.0	57	21	0.5



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Lengths 1 metre and above will be superseded by double-cover round slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Yellow 3T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09303051	0.5	8.0	56	23	0.6
09303101	1.0	8.0	56	23	0.6
09303151	1.5	8.0	56	23	0.6
09303201	2.0	8.0	56	23	0.6
09303251	2.5	8.0	56	23	0.6
09303301	3.0	8.0	56	23	0.6
09303351	3.5	8.0	56	23	0.6
09303401	4.0	8.0	56	23	0.6
09303501	5.0	8.0	56	23	0.6
09303601	6.0	8.0	56	23	0.6
09303801	8.0	8.0	56	23	0.6



Polyester Round Slings – Grey 4T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09304101	1.0	9.8	76	27	0.8
09304151	1.5	9.8	76	27	0.8
09304201	2.0	9.8	76	27	0.8
09304251	2.5	9.8	76	27	0.8
09304301	3.0	9.8	76	27	0.8
09304401	4.0	9.8	76	27	0.8
09304501	5.0	9.8	76	27	0.8
09304601	6.0	9.8	76	27	0.8



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Lengths 1 metre and above will be superseded by double-cover round slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Red 5T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09305101	1.0	11.8	75	30	1.0
09305201	2.0	11.8	75	30	1.0
09305251	2.5	11.8	75	30	1.0
09305301	3.0	11.8	75	30	1.0
09305401	4.0	11.8	75	30	1.0
09305501	5.0	11.8	75	30	1.0
09305601	6.0	11.8	75	30	1.0
09305801	8.0	11.8	75	30	1.0
09305910	10.0	11.8	75	30	1.0



Polyester Round Slings – Brown 6T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09306101	1.0	13.0	74	31	1.1
09306201	2.0	13.0	74	31	1.1
09306251	2.5	13.0	74	31	1.1
09306301	3.0	13.0	74	31	1.1
09306401	4.0	13.0	74	31	1.1
09306501	5.0	13.0	74	31	1.1
09306601	6.0	13.0	74	31	1.1
09306801	8.0	13.0	74	31	1.1
09306910	10.0	13.0	74	31	1.1



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.

• Single-cover round slings will be superseded by double-cover slings as stocks are exhausted.

• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Blue 8T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09308101	1.0	15.0	94	37	1.5
09308201	2.0	15.0	94	37	1.5
09308301	3.0	15.0	94	37	1.5
09308401	4.0	15.0	94	37	1.5
09308501	5.0	15.0	94	37	1.5
09308601	6.0	15.0	94	37	1.5
09308801	8.0	15.0	94	37	1.5
09308910	10.0	15.0	94	37	1.5



Polyester Round Slings – Orange 10T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09310101	1.0	18.0	122	45	1.9
09310201	2.0	18.0	122	45	1.9
09310301	3.0	18.0	122	45	1.9
09310401	4.0	18.0	122	45	1.9
09310501	5.0	18.0	122	45	1.9
09310601	6.0	18.0	122	45	1.9
09310801	8.0	18.0	122	45	1.9
09310910	10.0	18.0	122	45	1.9



Polyester Round Slings – Orange 15T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09315201	2.0	15.0	144	50	2.6
09315301	3.0	15.0	144	50	2.6
09315401	4.0	15.0	144	50	2.6
09315501	5.0	15.0	144	50	2.6
09315601	6.0	15.0	144	50	2.6
09315801	8.0	15.0	144	50	2.6
09315910	10.0	15.0	144	50	2.6



• Single-cover round slings will be superseded by double-cover slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Orange 20T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09320201	2.0	20.0	142	52	3.3
09320301	3.0	20.0	142	52	3.3
09320401	4.0	20.0	142	52	3.3
09320501	5.0	20.0	142	52	3.3
09320601	6.0	20.0	142	52	3.3
09320801	8.0	20.0	142	52	3.3
09320911	10.0	20.0	142	52	3.3



Polyester Round Slings – Orange 30T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09330401	4.0	40.0	175	89	6.7
09330601	6.0	40.0	175	89	6.7
09330801	8.0	40.0	175	89	6.7
09330910	10.0	40.0	175	89	6.7



Polyester Round Slings – Orange 50T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09350401	4.0	70.0	186	145	12.6
09350601	6.0	70.0	186	145	12.6
09350801	8.0	70.0	186	145	12.6
09350910	10.0	70.0	186	145	12.6



Colour coded endless round slings with single outer sleeve. Easy to handle and protect surface of goods being lifted.

- High tenacity polyester yarn.
- Reinforced polyester tube cover.
- Complies with EN1492-2.
- 7:1 design factor.
- Other sizes and configurations available upon request.
- Manufactured by DSR Corporation in Korea.



• Single-cover round slings will be superseded by double-cover slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Violet 1T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09301101D	1.0	5.0	37	18	0.30
09301151D	1.5	5.0	37	18	0.30
09301201D	2.0	5.0	37	18	0.30
09301251D	2.5	5.0	37	18	0.30
09301301D	3.0	5.0	37	18	0.30
09301351D	3.5	5.0	37	18	0.30
09301401D	4.0	5.0	37	18	0.30
09301501D	5.0	5.0	37	18	0.30
09301601D	6.0	5.0	37	18	0.30



The additional cover means added core protection

Polyester Round Slings Double Skin – Green 2T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09302101D	1.0	7.0	56	22	0.49
09302151D	1.5	7.0	56	22	0.49
09302201D	2.0	7.0	56	22	0.49
09302251D	2.5	7.0	56	22	0.49
09302301D	3.0	7.0	56	22	0.49
09302351D	3.5	7.0	56	22	0.49
09302401D	4.0	7.0	56	22	0.49
09302501D	5.0	7.0	56	22	0.49
09302601D	6.0	7.0	56	22	0.49
09302801D	8.0	7.0	56	22	0.49



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin- Yellow 3T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09303101D	1.0	8.7	55	24	0.66
09303151D	1.5	8.7	55	24	0.66
09303201D	2.0	8.7	55	24	0.66
09303251D	2.5	8.7	55	24	0.66
09303301D	3.0	8.7	55	24	0.66
09303351D	3.5	8.7	55	24	0.66
09303401D	4.0	8.7	55	24	0.66
09303501D	5.0	8.7	55	24	0.66
09303601D	6.0	8.7	55	24	0.66
09303801D	8.0	8.7	55	24	0.66

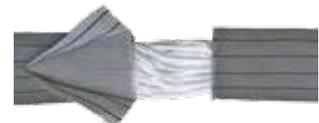


The additional cover means added core protection

Polyester Round Slings Double Skin- Grey 4T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09304101D	1.0	10.5	74	29	0.81
09304151D	1.5	10.5	74	29	0.81
09304201D	2.0	10.5	74	29	0.81
09304251D	2.5	10.5	74	29	0.81
09304301D	3.0	10.5	74	29	0.81
09304401D	4.0	10.5	74	29	0.81
09304501D	5.0	10.5	74	29	0.81
09304601D	6.0	10.5	74	29	0.81



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Red 5T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09305101D	1.0	12.7	73	32	1.0
09305151D	1.5	12.7	73	32	1.0
09305201D	2.0	12.7	73	32	1.0
09305251D	2.5	12.7	73	32	1.0
09305301D	3.0	12.7	73	32	1.0
09305401D	4.0	12.7	73	32	1.0
09305501D	5.0	12.7	73	32	1.0
09305601D	6.0	12.7	73	32	1.0
09305801D	8.0	12.7	73	32	1.0
09305910D	10.0	12.7	73	32	1.0



The additional cover means added core protection

Polyester Round Slings Double Skin – Brown 6T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09306101D	1.0	14.2	71	34	1.23
09306201D	2.0	14.2	71	34	1.23
09306251D	2.5	14.2	71	34	1.23
09306301D	3.0	14.2	71	34	1.23
09306401D	4.0	14.2	71	34	1.23
09306501D	5.0	14.2	71	34	1.23
09306601D	6.0	14.2	71	34	1.23
09306801D	8.0	14.2	71	34	1.23
09306910D	10.0	14.2	71	34	1.23



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Blue 8T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09308101D	1.0	16.0	91	40	1.66
09308201D	2.0	16.0	91	40	1.66
09308301D	3.0	16.0	91	40	1.66
09308401D	4.0	16.0	91	40	1.66
09308501D	5.0	16.0	91	40	1.66
09308601D	6.0	16.0	91	40	1.66
09308801D	8.0	16.0	91	40	1.66
09308910D	10.0	16.0	91	40	1.66



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 10T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09310101D	1.0	18.9	118	49	2.1
09310201D	2.0	18.9	118	49	2.1
09310301D	3.0	18.9	118	49	2.1
09310401D	4.0	18.9	118	49	2.1
09310501D	5.0	18.9	118	49	2.1
09310601D	6.0	18.9	118	49	2.1
09310801D	8.0	18.9	118	49	2.1
09310910D	10.0	18.9	118	49	2.1



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 15T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09315201D	2.0	25.0	141	53	3.75
09315301D	3.0	25.0	141	53	3.75
09315401D	4.0	25.0	141	53	3.75
09315501D	5.0	25.0	141	53	3.75
09315601D	6.0	25.0	141	53	3.75
09315801D	8.0	25.0	141	53	3.75
09315910D	10.0	25.0	141	53	3.75



The additional cover means added core protection

 • Never exceed Manufacturer's Working Load Limit (WLL).

03
SYNTHETIC LIFTING,
TOWING & RECOVERY

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Orange 20T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09320201D	2.0	31.1	139	55	6.10
09320301D	3.0	31.1	139	55	6.10
09320401D	4.0	31.1	139	55	6.10
09320501D	5.0	31.1	139	55	6.10
09320601D	6.0	31.1	139	55	6.10
09320801D	8.0	31.1	139	55	6.10
09320910D	10.0	31.1	139	55	6.10



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 30T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09330401D	4.0	38.0	175	89	8.55
09330601D	6.0	38.0	175	89	8.55
09330801D	8.0	38.0	175	89	8.55
09330910D	10.0	38.0	175	89	8.55



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 50T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09350401D	4.0	48.0	186	145	14.85
09350601D	6.0	48.0	186	145	14.85
09350801D	8.0	48.0	186	145	14.85
09350910D	10.0	48.0	186	145	14.85



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED JUMBO

Endless Polyester Round Slings – Orange 80T WLL



03

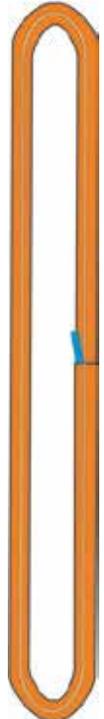
SYNTHETIC LIFTING,
TOWING & RECOVERY

Product Code	Length	WLL	Approx. Width Under Load	Colour
	m	t	mm	
09380601*	6.0	80.0	180	Orange
09380801*	8.0	80.0	180	Orange
09380910*	10.0	80.0	180	Orange

* Available on indent.

Jumbo 80 Tonne Round Slings with low stretch prevents 'load bounce' when lifting.

- Complies with AS4497.1.
- 7:1 design factor.
- Manufactured in Australia.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

COLOUR CODED SUPRA PLUS

SUPRA PLUS HEAVY DUTY ROUND SLINGS

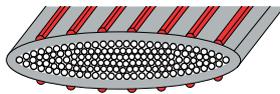


1 Tonne – 8 Tonne WLL.

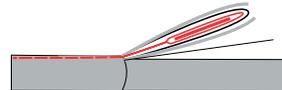
- Up to four times the wear of conventional round slings.
- 40% thicker sleeve for durability.
- Raised ribs for greater wear and higher resistance to cutting.
- 20% narrower than standard slings for easy hook interface.
- Variable load bearing point for more even wear.
- Ideal for choke lifting cylindrical objects without creasing.
- Less creasing means less wear.
- Certified to AS4497.1.
- WLL data woven into sleeve for unmistakable capacity identification.
- High strength to weight ratio.
- Webbing reinforced encapsulated compliance labels.



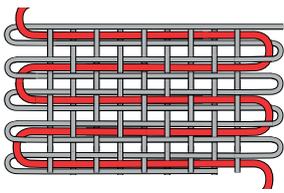
More compact cross-section.



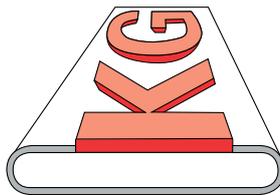
Improved ribbed reinforcement.



Protected quality label.



Interwoven textile wire.



Superior interwoven load-bearing capacity indication.



SP1000 – Violet 1.0T WLL



SP5000 – Red 5.0T WLL



SP2000 – Green 2.0T WLL



SP6000 – Brown 6.0T WLL



SP3000 – Yellow 3.0T WLL



SP8000 – Blue 8.0T WLL



SP4000 – Grey 4.0T WLL

Manufactured in Australia to your requirements. Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@cookes.co.nz for pricing and delivery information.



ENDLESS ROUND SLINGS

COLOUR CODED MAGNUM PLUS

MAGNUM PLUS HEAVY DUTY ROUND SLINGS



10 Tonne – 150 Tonne WLL.

- 40% thicker sleeve for durability.
- Raised ribs for greater wear and higher resistance to cutting..
- 20% narrower than standard slings for easy hook interface.
- Variable load bearing point for more even wear.
- Ideal for choke lifting cylindrical objects without creasing.
- Less creasing means less wear.
- WLL data woven into sleeve for unmistakable capacity information.
- High strength to weight ratio.
- Webbing reinforced encapsulated compliance labels.

Magnum Plus Round Sling Technical Data

SpanSet Product Code	Rated WLL	Thick Under Load	Width Under Load	Min Attachment Hardware Ø (mm)	Min Load Edge Ø (mm)	Weight
	kg	mm (approx.)	mm (approx.)			kg per m
MAG10000*	10,000	19	90	19	57	2.2
MAG15000*	15,000	21	115	21	63	3.2
MAG20000*	20,000	23	135	23	69	4.4
MAG25000*	25,000	24	150	24	72	5.6
MAG30000*	30,000	27	170	27	81	7.4
MAG40000*	40,000	37	190	37	111	10.0
MAG50000*	50,000	65	190	65	195	13.0
MAG60000*	60,000	75	220	75	225	14.8
MAG80000*	80,000	86	230	86	258	20.0
MAG100000*	100,000	96	260	96	288	26.0
MAG125000*	125,000	120	325	120	360	33.8
MAG150000*	150,000	144	390	144	432	41.6

* Available on indent. Minimum Length = 1.5 Metres; Maximum Length = 60 Metres; Colour = Orange.

- Manufactured in Australia.



• Never exceed Manufacturer's Working Load Limit (WLL).

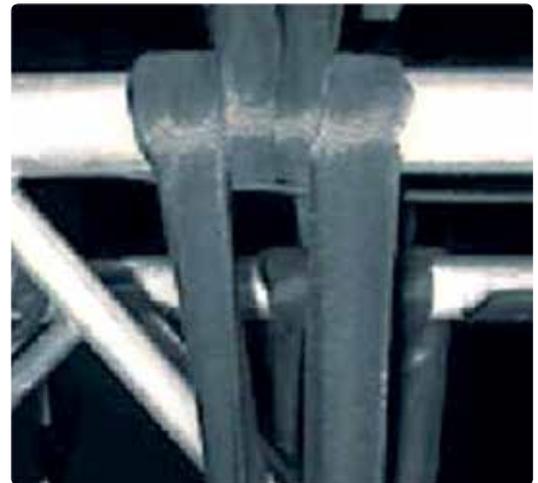
ENDLESS ROUND SLINGS

HEAT RESISTANT STAGE SLINGS

SpanSet Steel-Tex High Heat Resistant Stage Slings

SpanSet[®]

Product Code	Length	WLL	Weight
	m	t	kg
09295090	0.9	2.4	0.85
09295180	1.8	2.4	1.60
09295270	2.7	2.4	2.50



SpanSet Steel-Tex lightweight round slings are ideal for easy and inconspicuous suspension of stage, sound and lighting equipment.

- Black sleeve material helps the sling blend into its surroundings.
- The load bearing member of Steel-Tex round slings consists of galvanised steel aircraft cable wound in an endless configuration.
- The steel wire core is encased in a heavy black polyester cover.
- Fitted with a unique inspection window with a velcro closure which is located beside the reinforced identification tag.
- The wide inspection window allows for easy inspection of the core for broken wires or corrosion.
- Manufactured in the USA.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

SPECIAL REPORT – SHACKLES WITH ROUND SLINGS



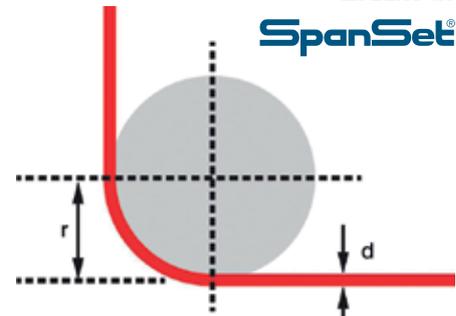
SpanSet®

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Background

Round slings made out of textile fibres are frequently used in combination with shackles with the same WLL in everyday lifting applications. But in many cases the bend radius of the shackle is a sharp edge for the sling as defined by the rule of thumb (bend radius of the bearing surface of a sling has to be greater than the thickness of the sling). As there are no standards or regulations for assessing these situations, Van Beest tested the breaking strength of certain combinations of round slings and shackles together with SpanSet GmbH & Co. KG and the DGUV (German Social Accident Insurance – Metal and Surface Treatment Technical Committee).



Definition of a sharp edge:
radius edge (r) < thickness of lifting gear (d)

Selecting products for the test

The spectrum of tested lifting capacities for the combinations of round slings and shackles covered the most common increments of the load capacities ranging from 0.5t up to 150t. Van Beest tested round slings made of classic polyester fibres as well as round slings of high performance fibres. The latter is of particular interest since the properties of the fibre material used in these slings differs from those of conventional polyester fibres.

Standard Green Pin® shackles were used in the tests. These shackles have a uniform high quality, produced by upset forging from round bars. This makes them very different from standard imported drop forged shackles. Green Pin® Standard shackles are ideal for use together with round slings.



Test procedure

A test plan was drawn up in cooperation with the DGUV that took into account the usual combination of parts with the same WLL.

5-times the nominal carrying capacity was defined as the target strength to be achieved for round slings with a nominal lifting capacity of below 8 t and 4 times the nominal carrying capacity for slings with a nominal lifting capacity of 8t or more. The slings were positioned in the bow of the shackles in each case.

The strength tests were then carried out on calibrated 250t and 600t tensile testing machines. The test was deemed to have been passed successfully as long as there was no sudden drop in force or a complete breakage of the sling. Damage to the sling sleeve or deformations of the shackle were acceptable in view of the excess load.

Result

After loading and removal from the machine, the test specimens were examined and the findings recorded in a test report.

In addition to the main criterion i.e. whether the combinations of round slings and shackles had withstood the applied test force, it was also ascertained whether the individual components had been easy to separate from one another, and whether pressure points had led to any damage to the round slings due to contact pressure at the shackle radius.



All of the various combinations that were tested achieved the respective target strength. The combinations tested are detailed on the following page.

To view a video of these tests please go to YouTube and search for 'Green Pin Shackles with SpanSet Round Slings' or use this link:

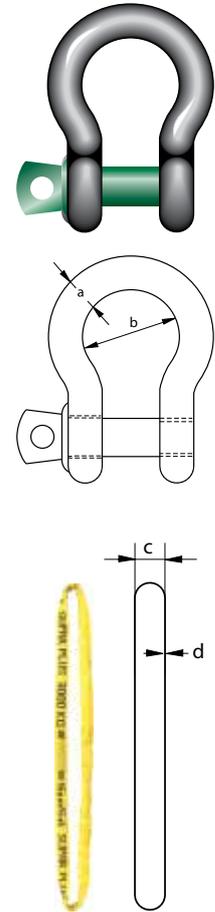
<https://www.youtube.com/watch?v=lvBLk1jMGJl>

ENDLESS ROUND SLINGS

SPECIAL REPORT – SHACKLES WITH ROUND SLINGS

Test Combinations (Polyester Fibre Slings)

Green Pin® Shackle Type	WLL (t)		Dimensions (mm)				Proof Load kN
	Shackle	Round Sling	a	b	c	d	
G-4161, G-4163	0.5	0.5	7	20	36	5	25
G-4161, G-4163	1.0	1.0	10	26	36	6	49
G-4161, G-4163	2.0	2.0	13	32	37	8	99
G-4161, G-4163	3.25	3.0	16	43	44	10	148
G-4161, G-4163	4.75	4.0	19	51	52	12	197
G-4161, G-4163	6.5	5.0	22	58	59	13	246
G-4161, G-4163	6.5	6.0	22	58	65	14	295
G-4161, G-4163	8.5	8.0	25	68	68	17	393
G-4161, G-4163	12.0	10.0	32	83	90	19	393
G-4161, G-4163	17.0	15.0	38	99	115	21	589
G-4161, G-4163	25.0	20.0	45	126	135	23	785
G-4161, G-4163	35.0	30.0	50	138	170	27	1,178
G-4161, G-4163	42.5	40.0	57	160	190	37	1,570
G-4163	85.0	60.0	75	190	190	75	2,355
G-4163	85.0	80.0	75	190	230	86	3,140
P-6036	120.0	100.0	95	238	260	96	3,924



Test Combinations (High Performance Fibre Slings)

Green Pin® Shackle Type	WLL (t)		Dimensions (mm)				Proof Load kN
	Shackle	Round Sling	a	b	c	d	
G-4161, G-4163	12.0	10.0	32	83	55	12	393
G-4161, G-4163	25.0	20.0	45	126	80	15	785
G-4161, G-4163	35.0	30.0	50	138	90	20	1,178
G-4161, G-4163	42.5	40.0	57	160	110	24	1,570
G-4161, G-4163	55.0	50.0	65	180	117	23	1,962
G-4163	85.0	60.0	75	190	150	30	2,355
G-4163	85.0	80.0	75	190	200	40	3,140
P-6036	120.0	100.0	95	238	233	47	3,924
P-6036	150.0	125.0	105	275	267	53	4,905
P-6036	150.0	150.0	105	275	308	62	5,886

Note: Tests undertaken using SpanSet Magnum-X round slings. WLL of the combination of Green Pin® shackle and round sling is limited by the WLL of the round sling for all combinations.



• Never exceed Manufacturer's Working Load Limit (WLL).

CARE & USE OF ROUND SLINGS

CARE & USE OF ROUND SLINGS

Always:

- Plan the lift, establish the weight of the load and prepare the landing area ensuring that it will take the weight.
- Check slings and equipment are free of damage, use slings/sliding methods suitable for the load and protect slings from sharp edges and corners.
- Attach the sling securely to the load.
- Ensure the load is balanced and will not tilt or fall.
- Keep all body parts clear when tensioning slings and when landing loads.
- Ensure that the load is free to be lifted.
- Make a trial lift and trial lower.

Never:

- Use damaged slings or accessories.
- Twist, knot or tie slings.
- Hammer slings into position.
- Overload slings due to the weight of the load or the mode of use.
- Trap slings when landing the load.
- Drag slings over floors etc or attempt to pull trapped slings from under loads.
- Allow personnel to ride on loads.
- Use a sling if label is missing.

When you select & specify roundslings consider the following:

- The Working Load Limit (WLL) and type of load (correct mode factor: see WLL table on page 134).
- The method of use, together with the weight, size and shape of the load and the working environment.
- The selected sling must be strong enough and of correct length for the actual mode of use. The connection of the sling to load and lifting equipment shall be evaluated. Consideration should be given to end fittings and lifting equipment, which shall be compatible with the round sling. When connecting a round sling to a lifting device/hook, the shape of the hook must be of a type that allows correct contact with the sling.
- Plan the lifting operation before action. Slings, lifting and lowering: Good slinging practice shall be followed.
- Round slings shall be located and connected in proper positions in a safe and correct way. The sling shall be protected from sharp and uneven edges, friction and other damage, from both the load and lifting device. Protection sleeves and other types of protection shall be used when required, and be positioned correctly. Slings shall be attached in a way that ensures the load will be carried by their full width. Slings shall never be used when twisted or knotted.

Lifting in good balance:

Plan the lifting operation before commencing. Always ensure that the hook is located directly above the centre of gravity of the load. Slings shall be selected/used in a way to ensure that this position can be maintained throughout the complete lifting & lowering process. Slings must not be used in a manner that may cause the load to tilt or slip. Remember that endless slings can slide in the hook if the load is not in balance.

Round Sling colour coding provides visual assistance in selecting a sling with correct WLL:



WLL t	Colour
1.0	Violet
2.0	Green
3.0	Yellow



WLL t	Colour
4.0	Grey
5.0	Red
6.0	Brown



WLL t	Colour
8.0	Blue
10.0	Orange
>10.0	Orange

i • Cookes recommend the use of Kevlar abrasion resistant sleeving to protect round slings from damage – refer Synthetic Sling Protection starting page 157 for protective sleeving options..

CARE & USE OF ROUND SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

CARE & USE OF ROUND SLINGS

Inspection before first use:

- Check that WLL and other characteristics of the sling correspond with the lifting application.
- Check that manufacturer's certificate is available, showing correct traceability between sling and certificate (Material number and batch/ id. number of the sling, shall be covered by the certificate).
- Inspect the sling for visible defects and ensure that labels and marking are in good condition. If any doubts exist regarding the condition of the sling, remove it from service for examination by a competent person.



In-service inspections:

- Inspect the sling for visible defects and ensure that all labels and markings are in good condition. If any doubts exist, remove the sling from service for examination by a competent person.
- Signs of defects or damage can be:
 - Damage at cover (loadbearing core yarn visible).
 - Damage at seam.
 - Flaking of the surface which may be rubbed off (chemical attack).
 - Glazed or melted surface (heat or friction damage).
 - Deformed or otherwise damaged fittings.

Storage:

After use, slings must be inspected. Damaged slings must be replaced, and undamaged slings must be stored in a dry place, protected from harmful environments (e.g. chemicals and strong UV radiation). Wet slings must be carefully dried, before storage.

Periodic inspection:

Periods for inspection should be determined by both the working environment and frequency of sling use. Records from examination shall be maintained, with full identity of the sling. If any doubts exist, the sling must be removed from service and examined by a competent person.



- Cookes recommend use of abrasion-resistant or cut-resistant sleeving with round slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options.



- Never exceed manufacturer's Working Load Limit (WLL).



- Never attempt to repair a damaged round sling.
- Always use protective sleeves or pads where any possibility of abrasion or cutting exists.

SYNTHETIC SLING PROTECTION

HIGH ABRASION-RESISTANT SLEEVES

KEVLAR SLEEVES

Not all abrasion resistant sleeving is the same. The likes of canvas, polyester, layflat hose or leather sleeving will provide moderate resistance only to abrasion.

Now available in New Zealand, exclusively from Cookes high abrasion resistant Kevlar sleeves with strong Velcro® closure tape. With a superior abrasion resistant outer cover manufactured in the USA and a yellow kevlar inner that aids inspection, these sleeves offer the ultimate flexible abrasion protection for your synthetic slings. Quick and easy to fit and remove for correct positioning on the sling and faster rigging time.

Kevlar Sleeves

Product Code	Suit Flat Sling	Suit Round Sling	Sleeve length
	width (mm)	WLL	m
09662075A	50	1T - 3T	0.5
09662075B	50	1T - 3T	1.0
09662100A	60-75	4T - 5T	0.5
09662100B	60-75	4T - 5T	1.0
09662100C	60-75	4T - 5T	2.0
09662150A	90-120	6T - 8T	0.5
09662150B	90-120	6T - 8T	1.0
09662150C	90-120	6T - 8T	2.0
09662200A	140-150	10T - 15T	0.5
09662200B	140-150	10T - 15T	1.0
09662200C	140-150	10T - 15T	2.0
09662240A	180-200	20T - 25T	0.5
09662240B	180-200	20T - 25T	1.0
09662300A	240	30T - 35T	0.5
09662300B	240	30T - 35T	1.0 </td
09662350A	300	40T	0.5
09662350B	300	40T	1.0



- High abrasion resistant easy-fit Kevlar sleeves.
- Suitable for new or existing flat slings or round slings.
- Also suitable for use on fibre rope slings, wire rope slings, chain slings etc.
- Both sides of sleeve able to be used.
- Other lengths available on indent.
- Manufactured in Australia using American developed sling protection technology.



• Kevlar sleeves are extremely flexible and when fitted still allow flat or round slings to be easily coiled.



- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

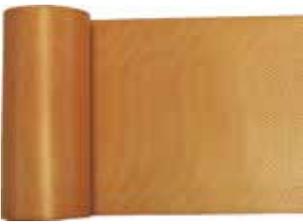
MODERATE ABRASION-RESISTANT SLEEVES



Lay Flat Hose

Product Code	Nominal Size	Width Measured Flat
	mm	mm
09661051	51	85
09661065	65	108
09661075	76	122
09661100	102	162
09661125	127	200
09661152	152	242

- Available in various widths as above.
- Best fitted at time of sling manufacture.



Kooper Sleevings

Lightweight tubular sleeving. For fitting at time of sling manufacture. Fitted as standard to the eyes of Cookes locally manufactured flat slings.



Heavy Leather

Hide leather cut and sewn to order in-house. Best fitted at time of manufacture. Note: May require multiple pieces for longer length slings.

 While these sleeves will provide moderate abrasion resistance they will offer no protection against sharp edges. Recommended where the main requirement is to protect sling fibres from dirt ingress.

 A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage. It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage. Never ignore damage to sleeving or pads during sling inspections.

 Where a higher level of abrasion resistance is required for safety, choose only Kevlar abrasion resistant sleeves.

SYNTHETIC SLING PROTECTION

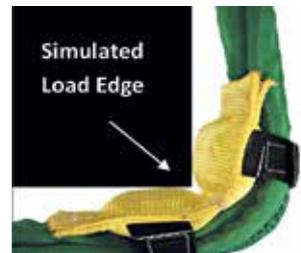
CUT-RESISTANT PADS & SLEEVES



CORNERMAX® PADS – ENGINEERED CUT PROTECTION

Exposure of a sling to load edges or corners requires a pad that is not susceptible to cutting because of toughness or zero contact. The CornerMax® Pad forms a tunnel between the load edge and the pad. This geometric separation is essential in protecting the pad itself from contacting the load edge, which provides maximum protection to the sling.

Cookes is New Zealand's authorised distributor of CornerMax™ cut-resistant sling pads.



CornerMax™ Pad For 90° Load Edges.

Product Code	Suit flat sling width	Pad length
	mm	mm
09662501	Up to 75	275
09662503	90-100	275
09662505	110-120	275
09662507	140-150	275
09662509	180-200	275
09662511	240-250	275
09662513	300	275

- Engineered cut protection designed for use on loads that have a 90° straight edge.
- Rated Working Load Limit of 4,464kg per cm of sling width.
- Attached with hook and loop tape for easy adjustment.
- The ultimate edge protection, allowing synthetic slings to be used for lifting steel or concrete beams.
- Available in 275mm lengths as per chart above.

CORNERMAX® SLEEVES – ENGINEERED CUT PROTECTION

CornerMax™ sleeves are designed for all other edges – curved, rough or irregular. They are perfect as protection around I-beams.

CornerMax™ sleeves are made of Dyneema® fibre that is specially woven to provide cut protection for a variety of edges and surfaces.

CornerMax™ sleeves allow synthetic slings to maintain full flexibility.

- CornerMax™ Sleeves imported to order from the USA.



 • Both products above allow synthetic slings to meet their full WLL with no damage to the sling protectors.
 • A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
 • It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
 • Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

CUT-RESISTANT PADS & SLEEVES



Unrivalled Cut Protection with CornerMax®

CornerMax® Sleeves

The CornerMax® Sleeve is the ideal solution to protect synthetic slings from cutting when it is not practical to use a CornerMax® Pad, whether due to the curvature of the load edge or repetitive used such as unloading steel coils.



CornerMax® Sleeves



CornerMax® Sleeves

CornerMax® Sleeves are imported to required width and length from the USA.



672 tonne super yacht lift using TwinPath® Slings and CornerMax® Sleeving.

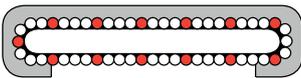
SYNTHETIC SLING PROTECTION

CUT-RESISTANT PADS & SLEEVES

Secutex® Sleeves

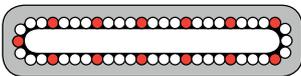
Secutex® has been perfectly formulated with the optimum balance between flexibility, elasticity and toughness to protect synthetic slings from sharp edges and abrasion. The sleeve grips the edge of the load, allowing the sling to move within the Secutex® to self centre and adjust to the centre of gravity. This feature also allows the rotation of sharp objects, such as steel coils, without damage to the sling or products.

Secutex® Sleeves are imported to order from Australia and are available in single-sided, double-sided or clip-on options to suit your requirements.



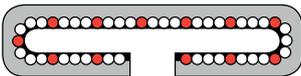
Single Sided Secutex®

- Encapsulates the sling with a hard wearing, flexible cut resistant surface on one side.
- Designed for fitting during sling manufacture.



Double Sided Secutex®

- Fully encapsulates the sling with a hard wearing, flexible cut resistant surface on both sides.
- Designed for fitting during sling manufacture.



Clip-On Secutex®

- Clips on to the sling with a hard wearing, flexible cut resistant surface on one side.
- Easy to fit to existing slings.



- The sling must be firmly positioned against the load edge and the sling must be free to slide inside the Secutex® Sleeve.
- Start lift slowly to enable sleeve and sling to position correctly.
- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

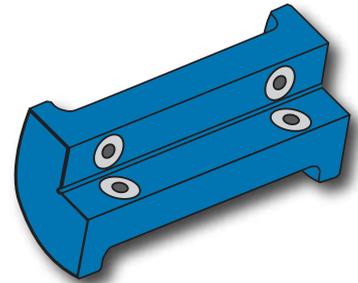
MAGNETIC SLING PROTECTORS

These American manufactured protectors attach with strong magnets to the steel corner and prevent the sling from contacting the load. Manufactured of solid nylon, these magnetic sling protectors are only 1/7th the weight of steel. No tools are needed with the magnets, allowing quick and easy attachment and removal.

Magnetic Sling Protectors

Type	Product Code	Length	Approximate Weight
		mm	kg
Regular Sling Protector	09662601*	152	0.60
	09662602*	230	0.75
	09662603*	305	0.95
	09662604*	450	1.40
Heavy Duty Sling Protector	09662701*	152	2.30
	09662702*	230	3.10
	09662703*	305	4.00
	09662704*	450	5.90
Groove Sling Protector	09662801*	230	1.25
	09662802*	305	1.70
	09662803*	450	2.50
Coil Top Sling Protector	09662901*	152	2.00
Centre Sling Protector	09662902*	152	2.00
Half Round Bar Sling Protector	09662903*	305	1.45

* Available on indent.



- Do not use at temperatures over 104°C or below -40°C.
- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to magnetic sling protectors during sling inspections.

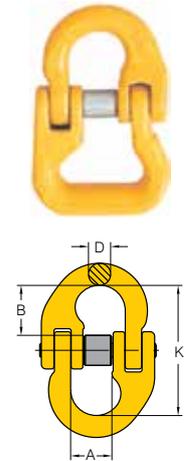
SYNTHETIC SLING CONNECTORS

SYNTHETIC SLING CONNECTORS

Synthetic Sling Connectors



Product Code	Yoke Item No.	WLL	Dimensions (mm)					N. W.
		t	A	B	D	K	W	kg
02477007	8-016-07	2.00	18	22	9	62	40	0.3
02477010	8-016-10	3.15	25	26	11	78	47	0.6
02477013	8-016-13	5.30	30	35	16	95	53	1.1
02477016	8-016-16	8.00	36	38	19	115	67	1.9
02477019	8-016-20	12.50	42	46	22	132	80	3.2
02477022	8-016-22	15.00	49	59	24	187	125	7.5
02477026	8-016-26	21.20	55	62	30	209	150	12.0



03

SYNTHETIC LIFTING,
TOWING & RECOVERY



- Allows a variety of connections to round or flat synthetic slings.
- Designed to eliminate bunching.
- No sharp edges to cut or damage soft slings.
- Allows connection to any Grade 80 eye type components of equal Working Load Limit.
- Design factor 4:1 proof tested and certified.
- Tested according to EN1677.
- Manufactured in Taiwan.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Correctly match connector to sling/components Working Load Limit.

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



High Performance Twin-Path® Round Slings

Cookes is proud to distribute the world's strongest slings; high performance Twin-Path® incorporating K-SPEC® core yarn. Incorporating UV protected, abrasion resistant heavy duty covering, Twin-Path® slings are manufactured in Australia under license to Slingmax in the USA.

At half the weight of a conventional round sling and approximately 10% of the weight of a steel wire rope sling, Twin-Path® slings with overload indicators and optional fibre-optics core-inspectors are the only choice where high strength, light-weight, safety and performance are important.



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Twin-Path® Overview

Twin-Path® Extra Slings with Covermax® and K-Spec® core yarn. Slingmax Twin-Path Slings are the safest, lightweight slings for heavy lifting applications up to 600 tonnes.

The Covermax® cover has superior abrasion resistance to conventional polyester round slings.

Twin-Path® Extra Slings have only 1% stretch at their Working Load Limit (WLL). This is the lightest and strongest sling on the market today with K-Spec® – the longest lashing load bearing core yarn, backed by independent testing.



Safety Features

- Twin-Path Patent Design: Using two independent paths each capable of carrying the rated Working Load Limit (WLL).
- Low Stretch: With 1% elongation at Working Load Limit (WLL).
- Can be safely used in chemical environments.
- Check Fast®: Immediate and high visibility indication of extreme overload before the sling fails.
- Optional Optic Fibres: The optic fibre system can alert you to heat exposure, cutting and chemical damage of the core fibre just by shining a flashlight into one end of the optic fibre (available as an option on slings up to 100T WLL).

Handling Features

- Weight Advantage: 80% lighter than wire rope and chain slings, 50% lighter than polyester slings.
- Control of Sling: Actual rigging becomes quick and more manageable due to the low weight.
- Marine Application: Does not absorb moisture and is naturally buoyant, making it ideal for all off-shore and salvage work.
- Storage Retrieval and Salvage: Easily rolled up and shelved after use. Transportable and can easily be tossed in the back of a car or van.

Cost Efficiencies

Wear Resistant Covermax Outer Cover: The fabric is four times more abrasive resistant than common Nylon or Polyester, increasing the sling life.

Repairable: Twin-Path® slings can be repaired by the Australian manufacturer using a special procedure.

All slings are retested after the repairs are completed.

Reduce Rigging Times: Actual rigging can be reduced by as much as 80% with less exposure to possible accidents.



• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



Twin-Path® Working Load Limits in Tonnes (5T to 100T)

Beaver Item Number	Vertical	Choke	Basket		Tube Width mm	Approx. Weight per Metre kg
						
	Single	Single	Vertical	60°		
	t	t	t	t		
TPXC5*	5	4	10	8.5	75	0.57
TPXC10*	10	8	20	17.0	100	1.14
TPXC15*	15	12	30	25.5	125	1.70
TPXC20*	20	16	40	34.0	125	2.27
TPXC25*	25	20	50	42.5	150	2.84
TPXC30*	30	24	60	51.0	150	3.41
TPXC35*	35	28	70	59.5	200	3.98
TPXC40*	40	32	80	68.0	200	4.55
TPXC45*	45	36	90	76.5	200	5.11
TPXC50*	50	40	100	85.0	200	5.68
TPXC55*	55	44	110	93.5	250	6.25
TPXC60*	60	48	120	102.0	250	6.82
TPXC65*	65	52	130	110.5	250	7.39
TPXC70*	70	56	140	119.0	300	7.96
TPXC75*	75	60	150	127.5	300	8.52
TPXC80*	80	64	160	136.0	300	9.09
TPXC85*	85	68	170	144.5	300	9.66
TPXC90*	90	72	180	153.0	300	10.23
TPXC95*	95	76	190	161.5	300	10.80
TPXC100*	100	80	200	170.0	300	11.37

* Available on indent.

Constructed with two independent paths, each capable of carrying the rated Working Load Limit (WLL).

- Very low stretch – 1% only at Working Load Limit.
- 50% lighter than polyester round slings of same WLL.
- Abrasion resistant cover.
- No minimum bend radius when matched with commercially available hardware of same WLL.
- Highly resistant to chemicals, heat and moisture.
- Complies with EN1492-2.
- Design factor 7:1.
- Test certificates supplied with all slings.
- Manufactured in Australia to order.



• Twin-Path® slings can be supplied with a revised design factor for heavy towing applications.



• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



Twin-Path® Working Load Limits in Tonnes (100T to 200T)

Beaver Item Number	Vertical	Choke	Basket		Tube Width mm	Approx. Weight per Metre kg
						
	Single	Single	Vertical	60°		
	t	t	t	t		
TPXC100*	100	80	200	170	250 & 100	11.37
TPXC110*	110	88	220	187	250 & 100	12.50
TPXC120*	120	96	240	204	250 & 100	13.64
TPXC130*	130	104	260	221	250 & 100	14.77
TPXC140*	140	112	280	238	250 & 150	15.91
TPXC150*	150	120	300	255	250 & 150	25.27
TPXC160*	160	128	320	272	250 & 150	27.28
TPXC170*	170	136	340	289	250 & 150	28.98
TPXC180*	180	144	360	306	250 & 200	30.69
TPXC190*	190	152	380	323	250 & 200	32.39
TPXC200*	200	160	400	340	250 & 200	34.10

* Available on indent.

Constructed with two independent paths, each capable of carrying the rated Working Load Limit (WLL).

- Very low stretch – 1% only at Working Load Limit.
- 50% lighter than polyester round slings of same WLL.
- Abrasion resistant cover.
- No minimum bend radius when matched with commercially available hardware of same WLL.
- Highly resistant to chemicals, heat and moisture.
- Complies with EN1492-2.
- Design factor 7:1.
- Test certificates supplied with all slings.
- Manufactured in Australia to order.



• Twin-Path® slings can be supplied with a revised design factor for heavy towing applications.



• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

TWIN-PATH® INSPECTION



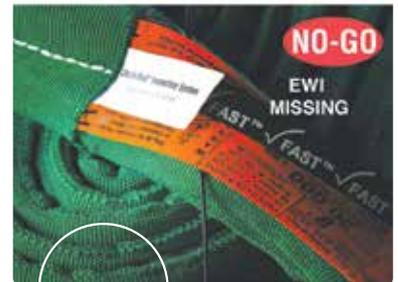
Check-Fast® Inspection

- US Patent #7,661,737 – CA #2,547,632 – EP #1899255.

The Check-Fast® System is designed to improve job-site safety. The Check-Fast® External Warning Indicator (EWI) provides for a pass/fail inspection of the internal load bearing core yarn.

Damage to the core yarn from ultraviolet (UV) light degradation, fibre on fibre abrasion, fatigue, and severe overload can be detected. If the sling is mistakenly overloaded beyond its Working Load Limit, the EWI is designed to disappear before the sling fails.

The sling inspector now has a GO/NO-GO inspection device rather than relying on a subjective hand-over-hand inspection to make an educated guess if the load bearing core yarns are in good condition.



Optional Fibre Optic Inspection for Twin-Path® Slings

- Twin-Path® slings up to 100T have an optional Fibre Optic inspection system.
- The condition of the internal core yarn can be inspected just by checking the continuity of the fibre optic cable.
- If crushing or cutting, heat or chemical damage, has occurred then the damage to the fibre optic cable will destroy its ability to transmit light from one end to the other giving the inspector a reason to remove the sling from service and send it in for repair evaluation.
- The fibre optic cable will conduct light using natural, overhead or flashlight sources.
- The inspector simply covers and removes his finger from one end and watches the other end for blinking which indicates that the sling is OK to use for another lift.



500 tonne steel bridge lift using Twin-Path® slings.



HIGH PERFORMANCE SLINGS

TWIN-PATH® SLINGS PERFORMING



03

SYNTHETIC LIFTING,
TOWING & RECOVERY



Twin-Path® slings lift a 275 tonne floodgate.



Only Twin-Path® slings were trusted to lift the spire for the World Trade Centre.

HIGH PERFORMANCE SLINGS

SPARKEATER® FIRE RESISTANT



Sparkeater® Fire Resistant Twin-Path® Soft Sling

The Sparkeater® Fire Resistant Soft Sling is designed for steel workshops, welders, boiler makers etc. and is perfect for construction sites that need to weld in steel while held by a crane. It has the same advantages as normal Twin-Path® – ie: Weight saving and ease of handling, ability to reduce the rigging gear tare weight.

The Sparkeater® sling is ideal for hot environments up to 150°C, enabling a lift without marring the surface of the lifted piece. Also, for stage rigging giving protection from fire, heat, sparks and pyrotechnics. Black is available for theatre or yellow for all other applications.

When lifting heated steel, wire rope or chain slings might scratch the load causing expensive rework. Fire exposure testing was performed by London Scientific and the product was identified as being as good as wire rope or chain for use in off-shore applications in the oil industry.

- All Sparkeater® Slings are yellow to distinguish them from other types and make them identifiable on site.
- Sparkeater® comes with EWI (External Warning Indicators) same as the standard Twin-Path® slings.
- These slings are manufactured to order in Australia under licence from an aramid high performance core yarn.



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

HIGH PERFORMANCE SLINGS

CARE & USE OF TWIN-PATH® SLINGS



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Safe Use of Twin-Path® Slings

- Load both paths of Twin-Path® slings equally. Do not side load. Do not load the edge of the sling.
- Determine the weight of the load. The weight of the load shall be within the Working Load Limit (WLL) of the sling.
- Select a sling having suitable characteristics for the type of load, hitch and environment.
- Slings shall not be loaded in excess of the Working Load Limit (WLL). Consideration shall be given to angle of lift which may affect the lifting capacity.
- Slings used in a choker shall not be forced to tighten around the load by pounding with hammers or other objects. Choker hitches are the least effective way to use a sling based on capacity. Two chokers should be used to balance the load. One choker in the centre of the load may create an unbalanced situation which could lead to an accident.
- Slings used in a basket hitch must have the load balanced to prevent slippage and accidents.
- Slings used with fittings shall be compatible with the fittings used.
- Slings in contact with edges, corners, protrusions, or abrasive surfaces shall be protected with a material of sufficient strength, thickness, and construction to prevent damage.
- Slings shall not be dragged on the floor or drawn across other surfaces which may damage the sling.
- Slings shall not be twisted or tied in knots to shorten.
- Slings can be damaged by resting loads on them or by pulling slings from under a load.
- Slings which are damaged shall not be used.
- Personnel shall stand clear of suspended loads.
- Avoid shock loading.

Inspection of Twin-Path® Slings

- If your sling is equipped with Check-Fast® and the EWI is not visible, remove the sling from service. Send to Cookes for repair evaluation.
- If Fibre-Optic inspection is installed in the sling, inspect by allowing light to enter the fibre optics. If the fibre optics do not transmit light from end to end, remove the sling from service and contact Cookes for repair evaluation.
- Slings shall be inspected for evidence of cutting or tearing of the outer cover. Slings with cuts shall be removed from service and sent back to Cookes for repair evaluation. Damage to the cover may indicate core damage.
- Inspect slings for evidence of heat damage. Sparkeater® slings shall not be exposed to temperatures over 149°C. K-Spec® slings shall not be exposed to temperatures above 82°C. Cold temperature exposure down to minus 40°C does not affect the strength of the products.
- If any part of the sling shows evidence of chemical degradation or damage, remove the sling from service. Return the sling to Cookes for repair evaluation.
- Slings using aluminium fittings shall not be used where fumes, vapours, sprays or mists of alkalis or acids are present.
- Twin-Path® lifting slings and any fittings attached shall be subject to frequent and regular inspections. In addition to the initial inspection by a competent person and frequent written inspections, the slings shall be visually inspected before each use.
- Written inspections shall be performed as required and documents of such inspection by a competent person shall be kept on file in the safety department of the plant or site where used. Inspections may be done more often based on frequency of use, severity of conditions or experience of past service life.
- Slings shall be examined throughout their length for abrasion, cuts, heat damage, fitting distortion or damage, tag legibility, and if any doubts are held by the inspector, the sling shall be removed from service. If deterioration is found, the sling must be removed from service.
- Slings removed from service that are not repairable shall be destroyed and rendered completely unfit for future use.
- Abrasion, heat damage or cuts to the cover may indicate a loss of strength to the core yarns, and these slings shall not be used until evaluated by Cookes.

HEAVY TOWING & RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

WEBBING TOWING & RECOVERY STRAPS

THE DIFFERENCE BETWEEN A TOW STRAP AND A RECOVERY STRAP

Tow Straps

- Cookes tow straps are manufactured from high tenacity polyester webbing.
- Designed to have less elongation than a nylon strap while still providing sufficient elasticity to help absorb the impact of any sudden loading.
- While many tow straps on the market today have fitted hooks, Cookes recommends against this practice. Hooks can become deadly missiles should a strap break under load.



What Size Tow Strap Should I Choose?

Cookes recommend that a 1.5:1 factor is applied when choosing a tow strap. While this may be more than some believe to be necessary, it takes into account unintentional shock loading. On this basis, to tow a 6,000Kg vehicle choose a 9,000Kg breaking load tow strap. It is much better to be safe than sorry!



Recovery Straps

- Cookes recovery straps are manufactured from high tenacity nylon webbing to provide both strength and high elongation.
- The elongation aids recovery of bogged vehicles through the build-up of stored energy in the strap. As the strap elongates, it transfers the stored energy to the stranded vehicle, aiding its recovery.
- **Recovery straps do not have fitted hooks. Straps with fitted hooks should never be used for vehicle recovery.**

What Size Recovery Strap Should I Choose?

Cookes recommend that a 2:1 factor be applied when choosing a recovery strap to take into account any unintentional shock loading. So to recover a vehicle weighting 9,000Kg choose a recovery strap with a minimum breaking load of 18,000Kg.

The chart below will assist your understanding of how each Cookes nylon heavy vehicle recovery strap, when used correctly, can handle the recovery of vehicles in various degrees of traction loss. Where higher breaking loads are required refer the Black Snake stop range on following pages.

Recovery Strap		Lack of Traction Only* (kg)	Stuck Due to Medium Boggging* (kg)	Stuck Due to Severe Boggging* (kg)
Product Code	Min Breaking Load (kg)			
09996601	12,000	24,000	12,000	7,000
09996993	18,000	36,000	18,000	11,000
09997000	24,000	48,000	24,000	14,500
09997025	36,000	72,000	36,000	21,500

* Definitions:

Lack of Traction Only: The wheels of vehicle are on the surface of the ground but unable to gain traction due to conditions.

Medium Boggging: The wheels of the vehicle are unable to gain traction and have dug into the ground to around 1/3 of the wheel diameter.

Severe Boggging: The wheels of the vehicle are unable to gain traction and are buried up to the axles.



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

WEBBING TOWING & RECOVERY STRAPS

100% High Tenacity Nylon Webbing Recovery Straps (12t – 36t)



Product Code	Length*	Breaking Load	Web Width	Ply
	m	kg	mm	
09996601	6.0	12,000	50	2
09996993	6.0	18,000	75	2
09997000	6.0	24,000	100	2
09997025	6.0	36,000	150	2

- High elongation heavy duty nylon webbing.
- Reduced eye each end.
- Leather eye protection.
- Australian sourced raw materials.
- Manufactured by Cookes in New Zealand.



Where higher breaking loads are required refer the Black Snake Recovery Strop range on following pages.

100% High Tenacity Polyester Webbing Tow Straps (12t – 72t)



Product Code	Length*	Breaking Load	Web Width	Colour	Ply
	m	kg	mm		
09997091	6.0	12,000	50	White	2
09997093	6.0	18,000	75	White	2
09997095	6.0	24,000	100	White	2
09997099	6.0	36,000	150	White	2
09997101	6.0	45,000	180	Brown	2
09997102	6.0	60,000	240	Blue	2
09997103	6.0	72,000	300	White	2

- Heavy duty polyester webbing.
- Reduced eye each end.
- Leather eye protection.
- Australian sourced raw materials.
- Manufactured by Cookes in New Zealand.



Where higher breaking loads are required refer the Black Snake Tow Strop range on following pages.

 • The tables above show the standard 6 metre length. Heavy Vehicle Recovery Straps and Tow Straps can be manufactured to your specific requirements – refer your nearest Cookes branch.
• Where higher breaking loads are required refer the Black Snake Recovery Strop or Tow Strop range on the following pages.

 • Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.

 • Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE INTRODUCTION

Cookes is proud to be the authorised New Zealand distributor of the innovative Australian manufactured Black Snake product range. The high performance Black Snake strops love tough conditions and offer our customers a great alternative to webbing straps, fibre ropes, round slings, chains or wire ropes for heavy towing or recovery work.

Whether you are seeking a strop for a high performance 4WD recovery or you are wanting to recover a bogged loader, Black Snake has the product for you.

All Black Snake strops feature a vulcanised rubber outer that not only protects the important internal fibres from oil, dirt and water, but ensures minimal recoil in the event of destruction through overloading.

These high strength, versatile strops are available with nylon internal core up to 100 tonne breaking load and 20% elongation for recovery work and with Kevlar® internal core up to 400 tonne breaking load and 4% elongation for those extreme towing jobs.

For more information on the Black Snake range, please contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@cookes.co.nz



• Did you know that Black Snake also produce an environmentally friendly alternative to conventional mooring chain? Refer page 239 for details on the Black Snake Mooring Strop.

HEAVY TOWING & RECOVERY

BLACK SNAKE H.D. NYLON RECOVERY STROPS

Heavy Duty Black Snake Nylon Recovery Stropps (20t – 100t)



Product Code	Break Strength	Length*	Maximum GVW **	Thimble Size	Strop Weight
	t	m	t	mm	kg
09998926	20.0	6	15	24	8
09998936	30.0	6	20	28	12
09998956	50.0	6	35	36	20
09998976	70.0	6	50	44	25
09998978	100.0	6	70	52	36

* Other lengths imported to order.

** Maximum GVW is the maximum recommended gross vehicle weight of a severely bogged vehicle for a given tow strop. Severely bogged vehicle is judged as a vehicle which is resting on its axles or chassis. The vehicle is being dragged with no rolling of the wheels.



Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free and making it far more durable than other fabric stropps.

- For recovery of heavy commercial, mining and military vehicles.
- Well suited to harsh environments.
- Very flexible and light weight for access into awkward spaces and for attachment devices.
- Easy to install with standard thimble eyelets embedded into the rubber casing.
- Smooth stretch of up to 20% to assist snatch style recovery.
- Individual serial number for traceability.
- Manufactured in Australia.

Load Bearing Fibres Rubber Casing



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

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SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE H.D. NYLON RECOVERY STROPS

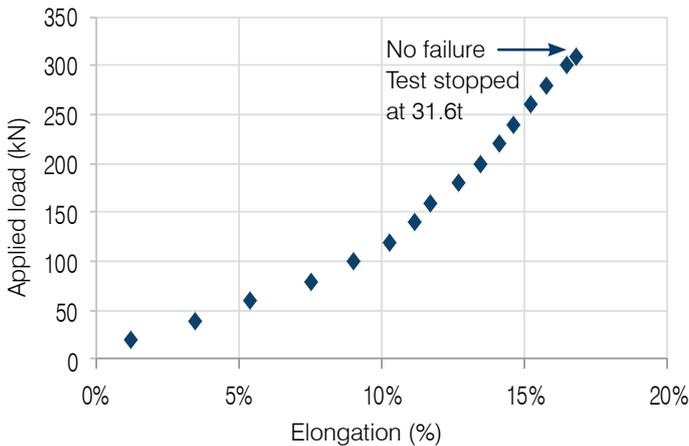


Nylon Recovery Strop Applied Load vs Elongation (%)

- This graph shows actual results for a 30 tonne Black Snake Nylon Recovery Strop. A pre-load of 5kN was applied.
- Smooth stretch up to 20% typical elongation is achieved by the Nylon 6.6 fibres and rubber casing combination.
- It is typical for the Nylon recovery strop to stretch more at low applied loads before assuming a linear gradient as displayed on the graph.
- Nylon 6.6 load bearing fibres are arranged as an endless parallel lay configuration around steel eyes/thimbles and wrapped in a protective rubber outer casing.
- Vehicle recovery can be assisted using a 'snatch' or 'potential energy → kinetic energy' type of recovery.
- At failure, nylon fibres separate at one eye and bury deep into the rubber casing which acts as dampening mass (dead-weight).



Controlled test on Nylon 30t, 2m Black Snake Strop



Recommended Minimum Shackle Sizes

Black Snake Nylon Strop Size (t)						
8	12	20	30	50	70	100
19mm Pin	22mm Pin	28mm Pin	32mm Pin	38mm Pin	42mm Pin	50mm Pin
Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow
WLL 3.25t	WLL 4.75t	WLL 8.5t	WLL 9.5t	WLL 13.5t	WLL 17.0t	WLL 25.0t
02325019	02325022	02325028	02325032	02325038	02325042	02325051



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

BLACK SNAKE H.D. KEVLAR® TOW STROPS

Kevlar® Tow Strop Weight Chart



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SYNTHETIC LIFTING,
TOWING & RECOVERY

Length	Break Strength (t)								
	20	30	50	70	100	150	200	300	400
m									
0.5	3kg	3kg	4kg	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1.0	3.5kg	3.5kg	4kg	5kg	n.a.	n.a.	n.a.	n.a.	n.a.
1.5	5kg	5kg	6kg	7kg	13kg	15kg	n.a.	n.a.	n.a.
4.0	8kg	9kg	10kg	14kg	22kg	22kg	27kg	41kg	51kg
6.0	11kg	11kg	13kg	18kg	24kg	25kg	32kg	48kg	54kg
10.0	16kg	16kg	20kg	28kg	36kg	37kg	44kg	66kg	90kg
15.0	24kg	24kg	27kg	33kg	48kg	50kg	59kg	96kg	122kg
20.0	28kg	28kg	36kg	44kg	63kg	65kg	77kg	120kg	144kg

Note: Manufactured to order in lengths up to 20m. Stock sizes/lengths below. All others available on indent.

Stock Sizes

Product Code	Break Strength	Length
	t	m
09998936K	30	6
09998956K	50	6
09998976K	70	6
09998978K	100	6



Abrasion/cut resistant rubber protects the inner Kevlar® fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free.

- For towing of mining, heavy commercial and military vehicles.
- Ultra high strength to weight ratio and flexibility for easy use and handling.
- Easy to install with various shaped eyelets available that are sized to fit standard connections.
- Special end fittings can also be fitted according to customer requirements.
- Individual serial number for traceability.
- Low elongation (4%) from the Kevlar® fibres and thick rubber cover.
- Vulcanised rubber outer provides a safe energy dampening feature (minimal recoil) should strop be overloaded and fail.
- Manufactured in Australia.



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle towing strops can result in serious injury or death.

HEAVY TOWING & RECOVERY



BLACK SNAKE H.D. KEVLAR® TOW STROPS

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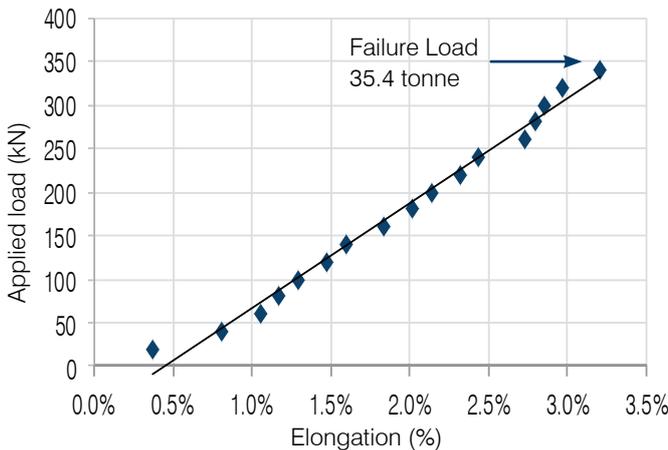
SYNTHETIC LIFTING, TOWING & RECOVERY

Kevlar® Tow Strop Applied Load vs Elongation (%)

- This graph shows actual test results for a 30t Black Snake Kevlar® Tow Strop. A pre-load of 5kN was applied.
- Very low stretch up to 4% typical elongation is achieved by the Kevlar fibres and rubber casing combination.
- The linear gradient on the graph is typical for Kevlar® tow strops longer than 0.5metres.
- Kevlar® Type29 load bearing fibres are arranged in an endless parallel lay configuration around steel eyes/thimbles which are wrapped in a protective rubber outer casing.
- Shock loading of a Kevlar® Black Snake tow strop and associated couplings/attachments can occur due to the low elongation of the Kevlar fibres and should be avoided where possible.
- No 'snatch' type of recovery should be attempted when using a Kevlar® Tow Strop.
- At failure, Kevlar® fibres break at one eye and bury deep into the rubber casing which acts as dampening mass (dead-weight).



Controlled test on Kevlar® 30t, 1.6m Black Snake Strop



- Applied load vs Elongation (%) curves vary for different sized strops and for different eye combinations.
- Protective outer casing is an industrial NR/BR abrasion resistant rubber vulcanized around the eyes and load bearing fibres.

Recommended Minimum Coupling Sizes

Black Snake Kevlar® Strop Size (t)										
	10	20	30	50	70	100	150	200	300	400
Hi-Load Bow Shackle	22mm Pin	28mm Pin	32mm Pin	38mm Pin	42mm Pin	50mm Pin	57mm Pin	65mm Pin	83mm Pin	83mm Pin
	02325022	02325028	02325032	02325038	02325042	02325051	02325057	02325065	02329080	02329080
Chain Style Connecting Link	13mm	16mm	20mm	22mm	26mm	32mm	n.a.	n.a.	n.a.	n.a.
	Grade 80									
	02459013	02459016	02459019	02459022	02459026	02459032				



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle towing strops can result in serious injury or death.

HEAVY TOWING & RECOVERY

WHAT SIZE BLACK SNAKE DO I CHOOSE?



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Suggested Black Snake Strop Sizes

Strop Size (Break Strength) Tonne	Gross Vehicle Weight (G.V.W) of Recovered or Towed Machine Given in Tonnes					
	Stranded Vehicles			Towing on Inclined Roadways		
	Lack of Traction* Slippery Conditions	Medium Bogged*	Severely Bogged*	10-1 Slope 10% Grade 6° Incline	6-1 Slope 16% Grade 9.5° Incline	4-1 Slope 25% Grade 14° Incline
8	16	8	5	30	20	12
12	24	12	8	50	30	20
20	40	20	15	80	50	35
30	60	30	20	120	80	50
50	100	50	35	200	130	80
70	140	70	50	270	180	120
100	200	100	70	400	250	170
150	300	150	100	600	380	250
200	400	200	140	800	500	340
300	600	300	200	1200	750	500
400	800	400	280	1600	1000	675

The handy chart provides suggested Black Snake strop sizes for both recovery and towing based on varying conditions. For further information on Black Snake Towing or Recovery Strops, contact your local Cookes branch, **Freephone 0508 274 366** or email customerservices@cookes.co.nz.

* Definitions:

- Lack of Traction Only: The wheels of vehicle are on the surface of the ground but unable to gain traction due to conditions.
- Medium Bogging: The wheels of the vehicle are unable to gain traction and have dug into the ground to around 1/3 of the wheel diameter.
- Severe Bogging: The wheels of the vehicle are unable to gain traction and are buried up to the axles.



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle towing and recovery strops can result in serious injury or death.

HEAVY TOWING & RECOVERY

CARE & USE OF BLACK SNAKE STROPS

For safe use

- If in doubt of the forces involved, do not attempt a vehicle recovery.
- The break strength (tonnes) is the applied load at which the tow strop or recovery strop will fail.
- All attachments, shackles, links, etc., must have greater break strength than the strop.
- Attachment hardware shall only be fitted to the bearing point of the eyes / end fittings of the strop.
- Never use a Black Snake strop as a lifting device.
- Always use vehicle manufacturer's recovery points.
- Do not use excessive speed when retrieving a vehicle.
- Do not use jerking (uneven acceleration) action when retrieving a vehicle.
- Never stand on, over, under or directly beside a Black Snake strop or near each end of the strop during a recovery attempt.
- Inspect strop for damage between each use.

Keep your Black Snake strop in good condition

- If in doubt of the appearance or general suitability of your Black Snake strop, do not use it.
- Do not use a Black Snake strop if there is any sign of cut rubber sleeving, exposed inner core, snagging, heat or chemical damage, or presence of foreign matter penetrating the rubber sleeving.
- Do not tie knots in a Black Snake strop.
- Protect a Black Snake strop from sharp edges during use.
- The rubber sleeving provides temporary cut and abrasion resistance only.
- Do not expose a Black Snake strop to temperatures above 90°C.



- Always follow product instructions.
- Only attach the Black Snake strop to a vehicle or device that is suitably rated for use with the strop.



- It is important to correctly attach the Black Snake strop to a vehicle. A standard tow ball or vehicle tie point is NOT designed for this purpose. This may result in the strop or a vehicle component detaching from the vehicle, striking and seriously injuring or killing a person.

4WD RECOVERY

SNATCH MASTER NYLON WEBBING STRAPS

Snatch Master 4WD Recovery Straps



Product Code	Break Strength	Length	Width	Colour
	t	m	mm	
09996600	8.0	6.0	60	Blue
09996900	8.0	9.0	60	Blue

Note: Stock sizes shown, other lengths manufactured to order.

Using Australian manufactured high tenacity, high elongation nylon webbing, the Snatch Master 4WD Recovery Straps are fabricated in New Zealand by Cookes. The Snatch Master is New Zealand's original, proven quality and high performance 4WD Recovery Strap.

- Heat set and dyed webbing to prevent dirt and oil ingress.
- High elongation webbing (up to 20%).
- Eye protection ensures increased life.
- Proven performance over 25 years in New Zealand conditions.
- Preferred choice of many 4WD recovery event competitors.
- Other lengths can be manufactured to order.
- Manufactured in New Zealand by Cookes.



For instructions on the safe use of Recovery Straps refer page 188.



- Not suitable for lifting applications.
- The recovery of vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



- Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE 4WD STROPS



Heavy Duty Black Snake Nylon Recovery Stropps

Product Code	Break Strength	Length	Maximum GVW *	Strop Weight
	t	m	t	kg
09998806	8.0	6	5	4
09998810	8.0	10	5	6
09998906	12.0	6	8	6
09998910	12.0	10	8	8

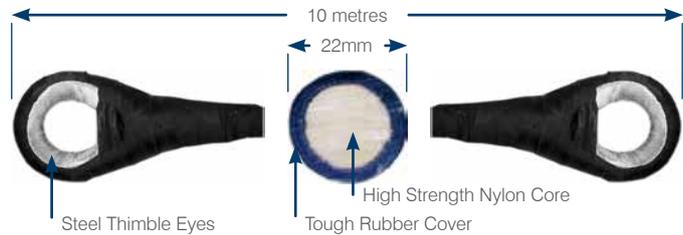


Note: Stock sizes shown, other lengths manufactured to order in Australia.

* Maximum GVW is the maximum recommended gross vehicle weight of a severely bogged vehicle for a given tow strop. Severely bogged vehicle is judged as a vehicle which is resting on its axles or chassis. The vehicle is being dragged with no rolling of the wheels.

Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free and making it far more durable than other synthetic straps or stropps.

- A great, tough & high performance alternative to webbing straps.
- High strength Nylon 6.6 load bearing core with high strength to weight ratio.
- Easy to install with galvanised thimble eyelets embedded into the rubber casing.
- Perfectly matched with shackles and clevis pins.
- Very flexible and light weight for access into awkward spaces and for attachment devices.
- Smooth stretch of up to 20% to assist snatch style recovery.
- Individual serial number for traceability.



The Black Snake 4WD Recovery Strop is built for serious 4WD users. It is a high performance recovery strop ideal for recreational 4WD, light commercial and industrial vehicles.

The Black Snake 4WD Recovery Strop is manufactured from high strength nylon fibres within a rubber casing. The rubber coating protects the load bearing fibres from the elements and also acts as a dampener.

Black Snake 4WD Recovery Stropps are designed with steel thimble each end for easy attachment and durability. This paired with the flexible nylon core make it easy and safe to use in the toughest of conditions.

- Nylon fibre core has a smooth stretch of up to 20% assisting in snatch type recovery.
- Abrasion and cut resistant rubber casing.
- Far more durable than other fabric snatch straps.
- Oil, water and dust proof. No cleaning required after use.
- Each unit has its own individual serial number for traceability.
- Proven safer than fabric snatch straps.
- Manufactured in Australia.



- Not suitable for lifting applications.
- The recovery of vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



- Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

4WD Tree Trunk Protectors

Product Code	Ply	Web Width	Length	Breaking Load
		mm	m	kg
09997300	1	75	3.0	9,000

Help protect our native trees from damage caused by wire ropes, chains, etc.

- High tenacity polyester webbing, heat-set and dyed orange for excellent visibility.
- Eye protector each end.
- Manufactured in China.



4WD Polyester Winch Extension Straps

COOKES
a BRIDON • BEKAERT Ropes Group Brand

Product Code	Web Width	Length	Breaking Load
	mm	m	kg
09997510	50	10	6,000
09997515	50	15	6,000
09997520	50	20	6,000
09997530	50	30	6,000



Winch extension straps are designed to extend winch cable when cable is too short.

- 50mm high tenacity polyester webbing.
- Minimum breaking load of 6 tonne.
- Reinforced eye at each end.
- Other lengths can be manufactured to order.
- Manufactured in New Zealand by Cookes.



• Not suitable for lifting applications



• Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

8T Economy 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125	11	125	8,000	4.60

Economy imported 4WD Off-Road Recovery Block – 8,000 Kg Line Pull.

- Minimum Breaking Load 12 tonne.
- 125mm sheave suits up to 11mm Ø wire rope.
- Manufactured in China.



8T NZ 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125R	11	125	8,000	4.90

Locally manufactured, quality 4WD Off-Road Recovery Block – 8,000 Kg Line Pull.

- Minimum Breaking Load 12 tonne.
- Cast iron 125mm sheave with bronze bush suits up to 11mm Ø wire rope.
- Proudly manufactured in New Zealand.



15T H.D. 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	Ømm	kg	kg
07128151	22	150	15,000	7.1

Locally manufactured, quality Heavy Duty 4WD Off-Road Recovery Block – 15,000 Kg line pull for the grunty jobs!

- Minimum Breaking Load 24 tonne.
- Cast iron 150mm sheave with bronze bush suits up to 22mm Ø wire rope.
- Proudly manufactured in New Zealand.



• Not suitable for lifting applications



• Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

4WD Tow Hook Sets



Product Code	Finish	Maximum Load
		kg
09564690	Black	4,500
09564691	Chrome	4,500



- Designed to allow easy coupling of recovery equipment.
- Supplied with fixing bolts and nuts.
- Black or chrome finish.
- Manufactured in China.

For 4WD Towing/Recovery applications only.

Hi-Load Alloy Bow Shackles

Product Code	Pin Ø	WLL	Weight
	mm	t	kg
02325519	19	3.2	0.65
02325522	22	4.7	1.10



High strength alloy bow shackles with clearly marked WLL.

- 6:1 design factor WLL to minimum breaking load.
- Hot dip galvanised.
- Manufactured in accordance with AS2741.
- Larger sizes available if required.
- Manufactured in China.

'Tugger' Recovery Winches



Product Code	Rated Capacity	Dynamic Load	Wire Rope		Net Weight
	kg	kg	Ø (mm)	Length (m)	kg
10048080	800	1,250	8.3	20	6
10048160	1,600	2,000	11.0	20	11
10048320	3,200	4,000	16.0	20	22

Easy and safe to use in all recovery situations. Multiple pulleys can be used to increase load if necessary.

- Portable and light weight.
- 20 metres of wire rope complete with safety hook.
- Manufactured in China for Cookes.



STOP • Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

TIEDOWN STRAPS AND DRAG CHAIN SETS

With in-house webbing manufacturing facilities, and New Zealand's largest range of chain and components, Cookes can fabricate tiedown straps or drag chain sets to your specific requirements.



Tiedown Straps



Tiedown Straps



Drag Chain (Snig Chain) Sets

STEEL WIRE WINCH ROPES

For your convenience, Cookes has rigging facilities at 12 sites throughout New Zealand. Using Bridon manufactured galvanised steel wire rope, winch cables can be fabricated to your requirements. Make an appointment to bring your vehicle to our premises to have existing wire ropes shortened or a new hook fitted while you wait.



• 4WD hardware is designed specifically for off-road recovery use and must never be used for lifting applications. While certain products in this section are rated for lifting, they must not be used for this purpose after being used for vehicle recovery.



• Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY WINCHES

Comeup 4WD Self Recovery Electric Winches – DV Series

Pacific Hoists

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Product Code		Comeup Item No.	Line Pull	Line Speed	Motor Rating	Wire Rope	Drum Size	Gear Ratio	Weight
12 Volt	24 Volt		kg	m / min	watt / hp	Ømm x m	mm xmm		kg
10059754	n.a.	DV6000S	2,720	8.0	2,386 / 3.2	7 x 24.4	63.5 x 125.5	216 : 1	17.7
10059756	10059757	DV9000	4,080	13.4	3,430 / 4.6	8 x 30.5	63.5 x 229.0	216 : 1	36.0

The Comeup Self Recovery Winches are equipped with a heavy duty motor which delivers superior torque output for self recovery applications. Our featured items offer a choice between 6,000lbs (2,720kg) or 9,000lbs (4,080kg) line pull though other options are available up to 15,000lbs (6,800kg) line pull.

All Comeup Recovery Winches offer the strongest power for working in off-road environments.



Standard Features Include:

- All sealed high performance motor supplies superior torque output and faster line speed.
- Three stage planetary gearbox delivers the most reliable & durable performance of winch under tough weather conditions.
- Protective thermal sensor LED.
- Heavy duty sealed contactor ensures sound waterproof protection.
- Galvanised 7x19 construction steel wire rope.
- Manufactured in Taiwan.



- Never exceed manufacturer's Maximum Line Pull.
- 4WD electric winches should only be operated by persons fully trained in the safe use of this equipment.



- Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

SAFE USE OF 4WD RECOVERY STRAPS

General

A tow strap should not be used to recover or snatch a vehicle that is bogged. Traditionally vehicle tow straps are much less flexible and designed only to pull a load that freely moves. The straps' inability to stretch can't absorb energy, which increases the likelihood that it will break. Using a tow strap with very little stretch for vehicle recovery is extremely unsafe!

Important

- Never attempt to recover a vehicle without all the necessary equipment.
- Only use equipment that is properly rated for the particular situation. If in doubt, don't use it.
- Never exceed the Minimum Breaking Load (MBL) of the strap or the Working Load Limit (WLL) of shackles.

Selecting The Correct Recovery Strap

It is very important the correctly rated strap is used. A strap with a 'too light' breaking strength may break under load. A strap with 'too heavy' a breaking strength may not stretch adequately and more stress will be placed on the recovery points, possibly causing damage or injury. The Minimum Breaking Load (MBL) of the strap should be between 2 and 3 times the Gross Vehicle Mass (GVM) of the 'lighter' of the two vehicles used in the recovery process. Be aware that the Recovery Strap will be under greater load if the vehicle is bogged in mud, sand or heavily loaded.

Keeping People Safe

Only the drivers of the stranded and recovery vehicle should be in those vehicles. Nobody else should be in or on those vehicles.

Ensure bystanders stay at least 1.5 times the un-stretched strap length away, to the side of the line of recovery. **NEVER** stand between vehicles connected by a Recovery Strap.

Key Information & Safety Recommendations

- Check the strap and its packaging for the stated Minimum Breaking Load (MBL) of the strap.
- Persons intending to use the strap should consider completing a nationally recognised training course or contact a four wheel drive club for comprehensive advice on the proper selection and use of the strap.
- The strap must never be used for lifting or conventional towing.
- Persons intending to use the strap must ensure that the strap is not damaged and is in usable condition.
- The strap's strength and stretch are reduced when the strap is saturated.
- Something like a recovery damper, heavy bag or blanket must be draped over the strap during use to reduce any unintentional rebound of the strap.
- While the strap is being used, persons situated outside the motor vehicles involved in the recovery process must – (A) be kept at a safe distance (recommended as at least 1.5 times the length of the unstretched strap) from either of the vehicles involved in the recovery process; and (B) never situate themselves within the path of the vehicle performing the recovery.

General Care & Maintenance

- Never allow your strap to rub against sharp or hot surfaces.
- Avoid twists & kinks, after washing, and when dry always coil your strap for storage.
- Clean your strap with warm water and a mild detergent, allowing thorough drying before storage. Foreign material such as sand and grit can permanently damage the strap fibres.
- Check full length of straps for nicks and cuts before and after use. If damaged, replace it.
- Never use the strap as a lifting sling.
- Inspect shackles for damage; if pins are hard to turn, shackle has been overstressed. Replace it.



• **Never exceed the specified rating of any 4WD recovery equipment.**



• **WARNING – Always follow product instructions. It is important to correctly attach the recovery strap to a motor vehicle. A standard tow ball or vehicle tie-down point is not designed for this purpose and may result in the strap or a vehicle component detaching from a motor vehicle and striking and seriously injuring or killing a person. Only attach the strap to a vehicle recovery point or device that is suitably rated for use with the strap.**

LIGHT VEHICLE TOWING

VEHICLE TOW STRAPS

5 Tonne Vehicle Tow Straps

Product Code	Web Width	Length	Breaking Load	Colour
	mm	m	kg	
09996055	50	3.65	5,000	Orange



An essential accessory in every vehicle – you will not realise how much you need it until you are stranded without one!

- Light weight and easy to store.
- 5 tonne breaking load webbing in high-visibility orange.
- Webbing heat set and dyed to prevent dirt and oil ingress.
- Eye protected each end for long life.
- Manufactured in China.



• Not suitable for lifting applications.



• While some tow straps and ropes are available on the market with fitted hooks, Cookes strongly recommend against this practice. Hooks can become deadly missiles should a tow strap or rope break under load!