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**SpanSet
GROUP**

**50
YEARS**

**SpanSet
Certified
Safety**

ERGOLite Harness Range

1000 ERGOLite Ultra Full Body Fall Arrest Harness



1100 ERGOLite Full Body Fall Arrest Harness



1104 ERGOLite Full Body Fall Arrest Harness



1107 ERGOLite Full Body Fall Arrest Harness



1300 ERGOLite Full Body Fall Arrest Harness



User Weight Limits

All harnesses = 160kg. Refer to specific lanyard and inertia reel data for force calculations.

Attachment Hardware

Rear D

- Forged aluminium
- Cranked (bent) for ease of attachment
- Polished for smoother edges
- Clear anodised for corrosion resistance
- Minimum tensile strength 22kN (5M–5000lb)
- Proof loaded to 16kN
- Ring internal diameter 54mm
- Webbing slot size 16 x 54mm
- Compatible with Gotcha™ Rescue Kit
- Laser etched with batch number and rating

Front D

- Forged aluminium
- Polished for smoother edges
- Clear anodised for corrosion resistance
- Minimum tensile strength 22kN (5M–5000lb)
- Proof Loaded to 16kN
- Ring internal diameter 46mm
- Webbing slot size 11mm x 46mm
- Compatible with Gotcha™ Rescue Kit
- Laser etched with batch number and rating

Buckles

- 2 bar buckles for easy adjustment
- 17.8kN/4000lb
- Clear anodised for increased corrosion resistance
- Webbing slot size 46mm
- Stamped with batch number and rating
- Exceed AS/NZSS 1891.1

**Buckles
1000 ERGOlite Ultra**

- 2 + 3 Bar Buckles
- 17.8kN/4000lb
- Clear anodised for increased corrosion resistance
- Webbing slot size 46mm
- Stamped with batch number and rating
- Exceed AS/NZSS 1891.1

Quick Connect Buckles
(Except 1000 ERGOlite Ultra)

- Double action pawls
- "Green light" safe connection indicator
- Lightweight aluminium
- Anodised for corrosion resistance
- Intergrated roll buckle adjuster
- Extruded and machined

Webbing

- Colourfast polyester high tensile
- Heat set for lower friction co-efficient – longer wear
- Light (UV) degradation certified to AS/NZS1891.1
- Minimum tensile strength 30kN
- Lay flat – non-roping

Sewing

- Hight tensile polyester light fast, UV resistant thread
- Load bearing seams sewn with high density, multi-bar tack patterns for extra wear and ease of inspection
- Load bearing seams sewn on computerised lock-stitch machines for consistency and security
- Contrasting colour for ease of inspection
- Non load-bearing patterns (labels, web end fold backs, decorative etc) flat manual sews
- All finished with over-stitching

Labels

- Compliance labels protected in openable pouch
- UV resistant PVC
- Thermal transfer printing

Webbing Keepers

- Nylon high density elastic for easy stowage of excess webbing
- Contrasting black for quick identification
- Rubber pull tabs on all end straps

Suspension Trauma Relief Straps

20mm nylon webbing
2-part hook and loop design
Housed in individual zippered soft pouches
Attached to harness via reeveable loop and positioning press studs
Length adjusting increments 185mm
300 Kg WLL

Waist and Buttock Padding

Motion activated ventilation bellows effect
Composite foam and mesh
Moulded and formed for greater ergonomics
Nylon abrasion resistant outer shell
Nylon mesh, breathable inner lining
Stiffened and reinforced for additional support

Confined Space Attachment Loops

(except ERGOlite 1000)

UV resistant polyester tubing
Tight and small enough to fit snap hooks
Colour contrasted for ease of identification
Must be used together
Clearly labelled

Construction

Original ERGO Euro style geometry
3 layer pocket webbing supporting load bearing Chest strap for front D
ERGOmatic, pull up adjustment at front shoulder straps
Sub -pelvic strap to minimise peel out
Fully adjustable shoulder, leg and chest straps
Leg straps fixed at hips – no excessive tightening around thighs in the event of an arrested fall
Front D allows for easier attachment with remote rescue kits
Centralised front D gives even loading

Sizing

Harness Size	Shirt Size							
	M	L	XL	2XL	3XL	4XL	5XL	6XL
Medium	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Light Grey	Light Grey	Light Grey	Light Grey
Large	Light Grey	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Light Grey	Light Grey	Light Grey
X Large	Light Grey	Light Grey	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Light Grey	Light Grey
2X Large	Light Grey	Light Grey	Light Grey	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Light Grey
3X Large	Light Grey	Light Grey	Light Grey	Light Grey	Dark Blue	Dark Blue	Dark Blue	Dark Blue

Testing

- 5-stage inspection process during manufacture:
- All harnesses tested and certified to AS/NZS1891.1 - 2007
- 100% visual inspection
- Rear D and front D's tested to dynamic 3.8m head up and head down
- Rear D and front D's tested static 15kN head up and 10kN head down
- Side Ds – 1.8m drop test on pole 12kN static test at side Ds and rings
- Confined space loops – 12kN static test through spreader bar
- Webbing UV degradation tested

Certification

Designed, tested and certified to AS/NZS1891.1-2007

Common Features

- Lightweight and comfortable
- Easy to fit and adjust
- Individually serial numbered

Features	1000 ERGOlite	1100 ERGOlite	1104 ERGOlite	1300 ERGOlite
Harness Weight	0.690kg	1.215kg	1.284kg	1.720kg
Breathable rear mesh panel	•	•	•	•
Confined space attachment loops		•	•	•
Front fall arrest D ring	•	•	•	•
Padded waist band and side pole strap widemouth Ds				
Rear fall arrest D ring	•	•	•	•
Rear fall arrest extension strap			•	
Suspension trauma relief straps	•	•	•	•
Waist band and side Ds				•

Suitable for

Confined space entry		•	•	•
Construction	•	•	•	•
Elevated work platforms	•	•	•	•
Fall arrest	•	•	•	•
Hire industry	•			
Ladder safety systems	•	•	•	•
Maintenance	•	•	•	•
Pole work				•
Rescue				
Roof work	•	•	•	•
Rope access				
Tower work				

Types of Attachment Points

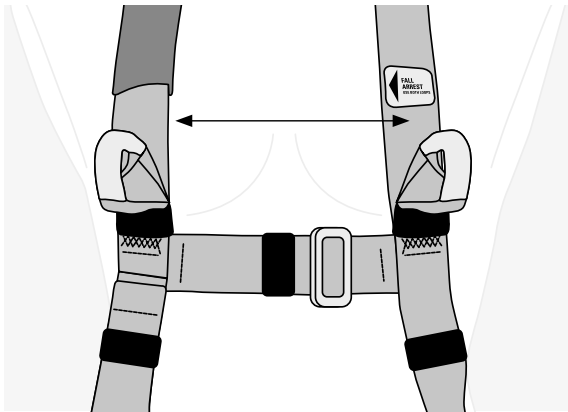


- 1 Confined space attachment loops**
Reverse folded loops to eliminate snagging and minimise metal components in contact with the body. Both loops must be used together.

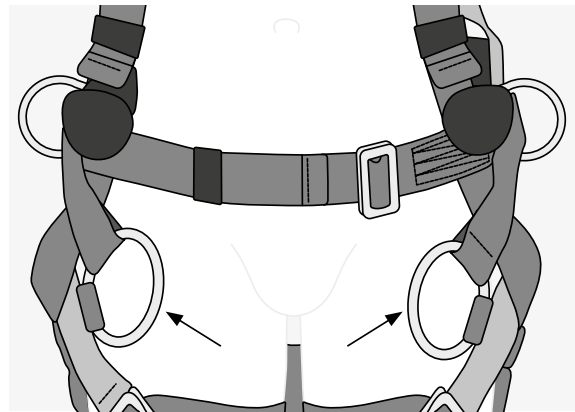
- 2 Front fall arrest D ring**
For versatility and ease of rescue.

- 3 Pole strap attachment D rings**
Easy to locate and connect to.

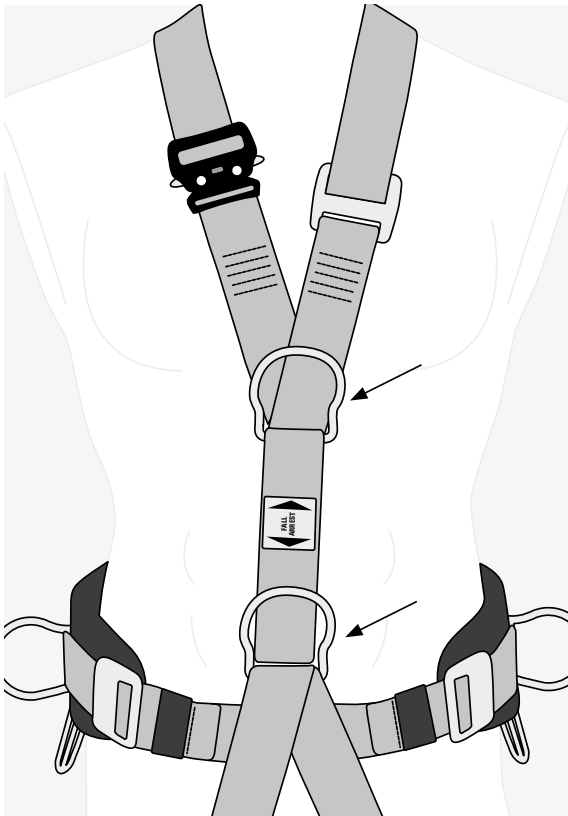
- 4 Rear fall arrest D ring**
Easy to locate and connect.



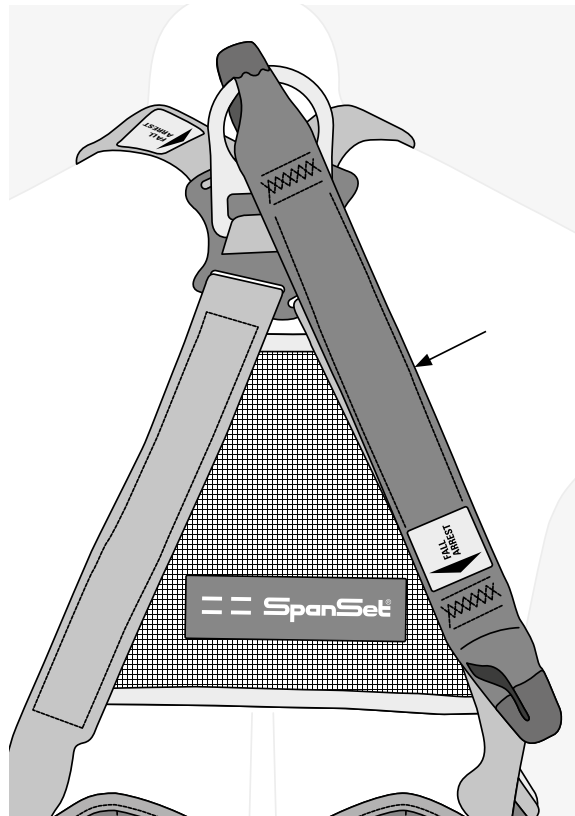
Front Fall Arrest Loops
(Both loops must be used together)



Auxiliary Pole Strap Rings
(Both Ds must be used)



Front Fall Arrest
Attachments (can also be used for abseiling,
work positioning or belay work)

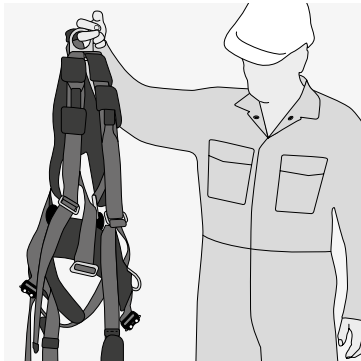


Dorsal/Rear (Fall Arrest)
Extension Strap

WARNING: ONLY USE ATTACHMENTS THAT ARE SPECIFICALLY LABELLED FOR THE APPLICATION

Fitting Instructions

Vest Style Harnesses



Hold harness by the Rear D with all straps undone



Place both shoulder straps over the shoulder as in donning a vest



Connect chest buckle, ensuring that green spot is seen in the receiver window. Tighten strap.



If a waist belt is fitted, connect and tighten



Connect leg buckle



Tighten leg strap



Connect opposite leg strap



Tighten straps and retain free webbing within the elastic webbing



Fitted harness should be snug and firmly fitted, particularly the leg straps

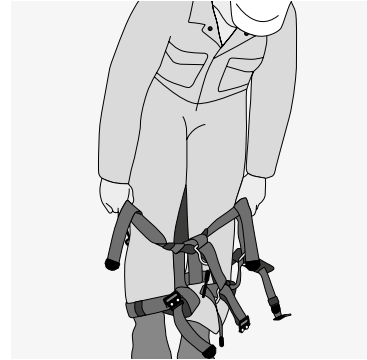
Step-in Style Harnesses



Hold harness by the shoulder straps and disconnect the chest fast release buckle



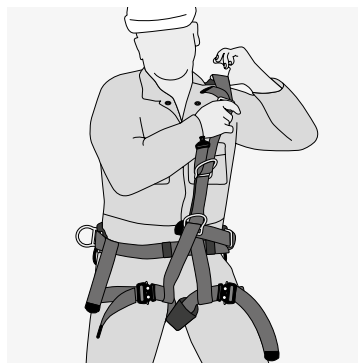
Place left leg through the left leg strap



Place the right leg through the right leg strap



Pull the harness upwards to waist level



Place the left shoulder strap over the shoulder



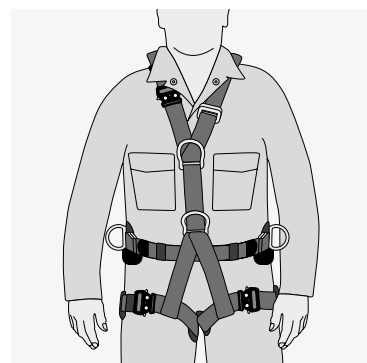
Repeat for right shoulder strap and connect the buckle. Ensure green spot can be seen in the receiver window



Tighten waist strap by pulling both sides



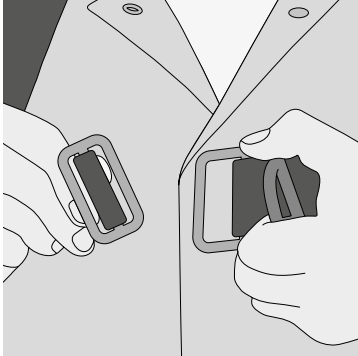
Tighten leg straps



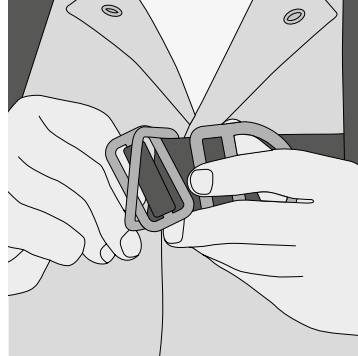
Fitted harness should be snug and firmly fitted, particularly the leg straps

Buckle Connection Instructions

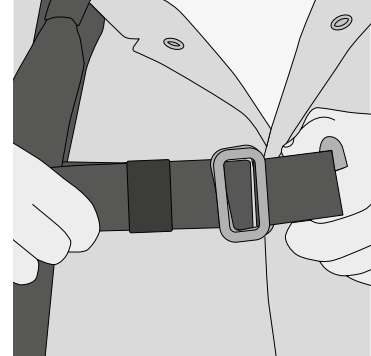
2-3 Bar Buckles



Bring the 2 buckles together, ensuring there are no twists in the webbing

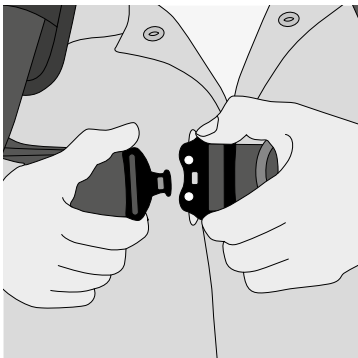


Turn the 3 bar buckle and push it through the 2 bar buckle



Ensure both buckles lay flat against one another and tension the strap

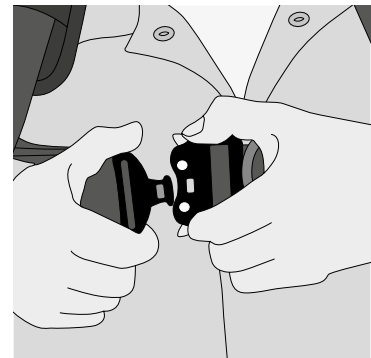
Quick Connect Buckles



Align the tongue with the slot in the receptor buckle and insert

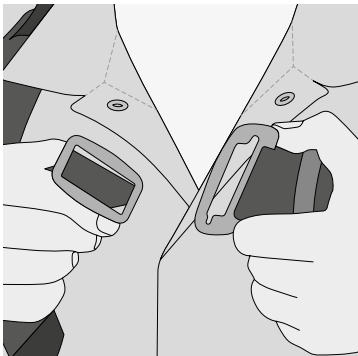


Push together until you hear a distinct click and the green mark appears in receiver window

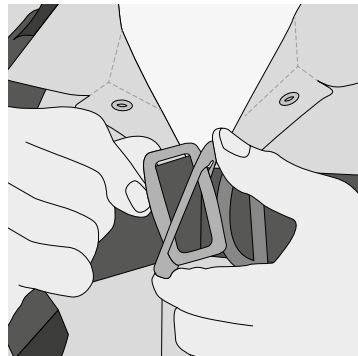


To release, push the two side tabs simultaneously and separate the buckles

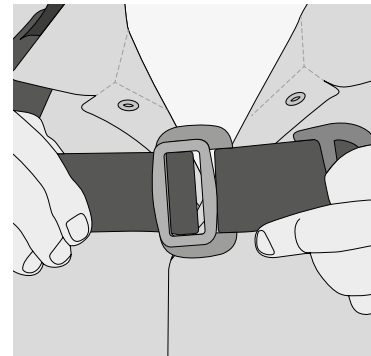
Slotted Buckles



Bring the 2 buckles together, ensuring there are no twists in the webbing

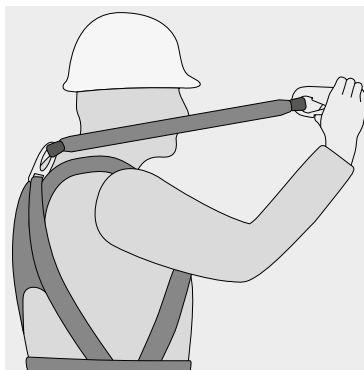


Push the smaller buckle through the slot in the larger buckle



Ensure both buckles lay flat against one another and tension the strap

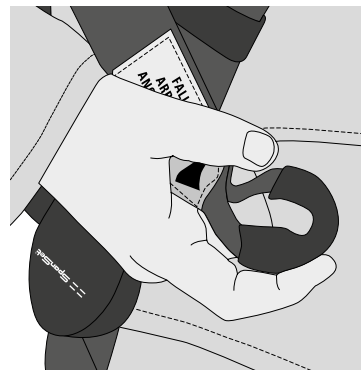
Dorsal Extension



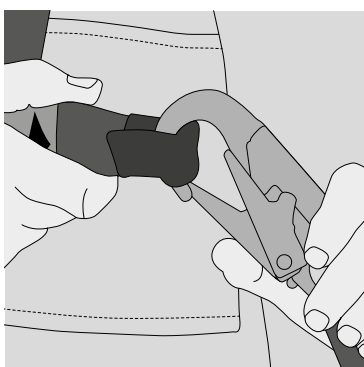
The dorsal extension is located at the rear of the harness, held in place by velcro strip



Remove dorsal extension from velcro strip and bring under the armpit



Ensure the eye is open to receive the connection hardware



Connect attachment hardware to the eye, making a visual check for secure connection

Note: All SpanSet dorsal extensions are deliberately located on the rear of the harness in order to keep an attached lanyard away from the neck and face.

The harness is correctly fitted (donned) when:

- The dorsal D ring (rear) is between the shoulder blades
- The shoulder straps are firm
- The chest strap is firm and located mid-chest
- The leg straps are firm
- There are no twists in any straps
- The butt strap is located just below the buttocks
- Spare strap ends are tucked away.

Types of Harnesses and Environmental Conditions

ERGOplus and ERGOiplus Harnesses

These premium harnesses are padded for comfort and feature quick connect buckles for convenience when donning. For professional users in dry conditions where no excessive dirt, mud and grime build up is experienced. ERGOiplus also features iWeb inspectable webbing with Xtreme Guard coating

ERGO Harnesses

These are the workhorses in the range and are best suited for dirty and harsh conditions by professional operators who appreciate no nonsense reliability. They feature the most reliable buckle system, being the 2 and 3 bar buckle, and don't feature any moving parts or unnecessary padding.

Compliance Harnesses

Tradie and EWP (also known as Spectre) harness are compliant entry level harnesses without many of the features of the previous harness ranges such as confined space loops, centre front D and suspension trauma straps

HotWorks Harnesses

These harnesses are for use around welding, grinding and similar hot work. They are made from heat resistant materials including the padding and have a lower total cost of ownership compared to polyester harnesses which are susceptible to heat.

WaterWorks Harnesses

These are for use around constantly wet areas and confined spaces and utilise all stainless steel fittings for longevity. Additionally they have Xtreme Guard coated webbing for water oil and dirt resistance.

ToughWorks

These are PVC or polyurethane coated harnesses for added resistance to paint, abrasion and excessive wear.

StageWorks

These particular harnesses have little or no reflectivity for working backstage and aloft at productions where the riggers and support personnel need to work at height but remain inconspicuous.

Belts

Waist belts on their own must not be used for fall arrest applications. SpanSet generally only manufacture miners' belts, to carry battery packs and self-rescuer devices. These belts may be integrated into full body harnesses however only the load bearing and tested harness attachment points listed in AS/NZS 1891.1 may be utilised in fall, rescue or suspension applications.

Maximum User Weights

SpanSet harnesses are rated in excess of 150kg.

General Maintenance

- A visual check should be carried out before and after daily use, and a 6 monthly periodic inspection is to be performed by a competent person and the results recorded.
- Clean prior to inspection.

Checklist for Inspection of Harnesses and Pole Straps

The following points should be checked before use:

- Check all webbing for effects of cuts, tears, abrasion, heat, chemicals, corrosives or solvents, hardening, excessive stretching, glazing due to friction, excessive wear or fuzziness, discolouration due to chemical contamination or prolonged ultraviolet exposure, excessive stiffness due to overloading, possibly as a result of a fall.
- Check all stitch blocks for broken, cut or worn stitching and damage due to heat, corrosives, solvents or mildew
- Check all buckles and D-rings for deformation, distortion, corrosion, wear and correct orientation
- Ensure the protective sleeve is in place on the pole strap
- Check ID number and Standards logo for legibility
- Check Date of manufacture - life shall not exceed 10 years
- Check for evidence of a fall. Must be withdrawn from service after a fall and destroyed if any damage has been sustained
- Check with the user for possible causes of damage.

If any of these points are not satisfactory then the harness should be destroyed.

Inspecting iWeb Enabled Products

Webbing with iWeb is woven with a contrasting (red) core of load bearing webbing which runs the full width and length of the webbing. To inspect, simply look for signs of red in any abrasion point, scuff, or cut on the surfaces or edges. This gives an objective inspection and discard criteria for both the user and the competent inspection person to apply.

Training Courses

Height Safety

Working Safely at Height*

Working Safely at Heights Refresher

Height Safety Supervisor*

Height Safety Manager*

Rescue

Rescue Systems Operator*

Vertical Rescue*

Tower and Pole Rescue*

Wind Access Rescue Technician*

EWP Emergency Escape

Gotcha Rescue

Confined Space

Confined Space*

Confined Space - Refresher*

Breathing Apparatus*

Confined Space Non-Entry Rescue*

Inspection

Competent Person Practical
Inspection and Record Keeping*



SpanSet Accreditations

ISO 9001:2008 Certified Quality
Management System

ISO 14001:2004 Certified Environment
Management System

OHSAS 18001:2007 Certified Occupational
Health and Safety Management Systems

Australian/New Zealand Standard
4801:2001 certified Occupational Health
and Safety Management Systems

Accredited Laboratory Tested by NATA to
ISO/IEC 17025

ASQA Registered Training Organisation
certified to ISO 9001:2008

Certified manufacturer to AS/NZS 1891.1
"Industrial Fall Arrest Systems and Devices"

Certified manufacturer to AS/NZS 1353.1 "Flat
Synthetic Webbing Slings"

Certified manufacturer to AS/NZS 4497.1
"Round Slings—Synthetic Fibre"

