

DONAGHYS
150 YEARS
INNOVATING SINCE 1876

Industrial Performance



DONAGHYS
PERFORMANCE FIRST



Applications

Applications

Arboriculture

PG 4 - 7

Height Safety/ Rescue

PG 8 - 11

Theatrical Rigging

PG 12 - 15

Telecommunications

PG 16 - 19

Shipping

PG 20 - 23

General

PG 24 - 27

Accessories

PG 28 - 32

Terminations

PG 32 - 33

Technical

PG 36 - 39

A vertical photograph showing two arboriculture workers on a large, dark tree trunk. The worker on the left is wearing a red jacket and a red helmet, while the worker on the right is wearing a red tank top, a red helmet, and a harness. Both are secured with ropes. The background is a clear blue sky. The bottom half of the image is overlaid with a semi-transparent yellow filter, and a third worker in a white helmet and orange shirt is visible in this lower section, also on a tree trunk.

Arboriculture

Armor Prus



Armor-Prus Performance



Armor-Prus Poly

FEATURES/ BENEFITS

Armor-Prus Performance

- Blended Technora® cover acts like armor to prevent melting and glazing
- Very low stretch and a light weight UHMwPE core with twin Kevlar strands, preventing the core from being cut or melted completely in the unlikely event of cover failure

Armor-Prus Poly

- Features the same armored jacket as Performance line
- Economical Polyester core

Both feature

- High grip for footlock
- Technora® has exceptional heat resistance and dissipation properties
- Easy to splice
- Meets ITCC Climbing comp rules
- Conforms to ANSI-Z133

APPLICATIONS

- Prusik line
- Access line
- Foot lock

RANGE

Armor-Prus Performance

- 8mm x 25m reel in Fluro Yellow/Grey mottle
- 10mm x 25m in Blue/Grey mottle

Armor-Prus Poly

- 8mm x 25m reel in Fluro Orange/Grey mottle
- 10mm x 25m in Pink/Grey mottle

Sewn Armor Prus



- Sewn eye options available upon request
- Sewn eyes suitable for 8mm & 10mm Armor-Prus
- Retains a higher tensile strength than a conventional splice
- Labelled for ease of traceability

Cougar



FEATURES/ BENEFITS

- Hard wearing high tenacity Polyester double braid
- Heat Set for maximum repeatable performance from the first deployment
- At 11.7mm, Cougar provides perfect balance between comfortable grip and light weight performance
- Super low stretch climbing line well favoured by climbers on rope wrenches and uncenders for single line access and work positioning
- Double braid construction gives flexibility for easy splicing
- Will not milk when used with prusiks and traditional hitches
- Conforms to ANSI-Z133
- Includes internal year of manufacture marker yarn

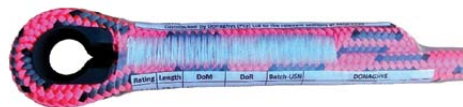
APPLICATIONS

- Access line
- High performance climbing line for use in sports climbing and professional Arborist applications

RANGE

- 11.7mm
- 200m reels

Sewn Cougar



- Sewn soft eye or sewn Nylon thimble eye options available upon request
- Retains a higher tensile strength than a conventional splice
- Labelled for ease of traceability

Highline UHMWPE Throwline



FEATURES/ BENEFITS

- Bright UHMWPE colour for easy visibility
- Solution dyed yarn to prevent premature fading
- Lightweight and high strength to weight ratio
- Polyurethane coated for abrasion resistance
- Low stretch and low friction

APPLICATIONS

- Arbor accessory
- Rope tool

RANGE

- 1.75mm x 50m
- 1.75mm x 100m
- 2.2mm x 100m

Stealth® UHMWPE Winchline



FEATURES/ BENEFITS

- Extreme strength to weight ratio
- UHMwPE is 15 times stronger than steel wire rope and 8 times lighter on a weight for weight basis
- High UV and chemical resistance
- Floats and does not absorb water
- Low stretch, low creep
- Virtually no recoil in the unlikely event of failure
- Will not kink
- Easy to splice
- Abrasion resistant coating provides longevity and superior winch drum grip
- Long continuous lengths available which removes waste factors and enhances hauling/winch lines integrities

APPLICATIONS

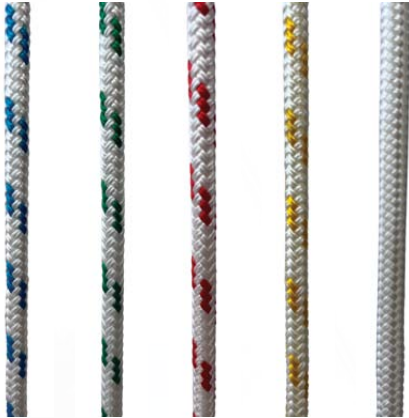
- Winch lines
- Logging
- Lifting
- Tree bracing
- Slings
- Wire replacement

RANGE

- 1mm - 44mm

Arboriculture

Yachtmaster



FEATURES/ BENEFITS

- Double braid construction in 100% high tenacity Polyester
- High jacket to core ratio assisting long life
- Excellent break load, UV and abrasion resistance
- Resistant to kinking, hockling and twisting
- Highly resistant to most chemicals
- Easy to splice

APPLICATIONS

- Rigging
- Control Lines
- Lowering Lines

RANGE

- 4mm - 16mm
- 100m reels
- Bulk reels or cartons and larger diameters available on request

Sewn Yachtmaster



- Sewn eye options available upon request
- Sewn eyes suitable from 6mm to 16mm
- Retains a higher tensile strength than a conventional splice
- Labelled for ease of traceability



Height Safety/Rescue



Height Safety/Rescue

Response® LSK

FEATURES/ BENEFITS



- Low stretched kernmantle (LSK)
- Responsive and reliable
- High strength
- Quick access and excellent knot holding
- Highly visible colours
- Includes internal year of manufacture marker yarn, 11mm and 13mm
- Conforms to EN 1891:2021 Type A

APPLICATIONS

- Abseiling
- Belay
- Static descent
- Safety and Rescue line
- Access line



RANGE

- 11mm - 13mm in 200m reels
- 16mm in 100m reels made to order
- Longer lengths available upon request
- Response® LSK constructed with plaited Nylon core with a 32 plait Polyester protective jacket

Sewn Response

- Sewn eye options available upon request
- Sewn eyes suitable for 11mm, 13mm and 16mm
- Soft eye, Nylon thimble or steel thimble options available
- Retains a higher tensile strength than a conventional splice
- Labelled for ease of traceability



Response® XT



FEATURES/ BENEFITS

- Responsive and reliable
- Manufactured with heat set, pre shrink process
- Low stretch, high strength
- Quick access and excellent knot holding
- Response® XT is heat-set, constructed with parallel twisted Nylon core, with a 32 plait Nylon protective jacket
- Includes internal year of manufacture & Standards marker yarns
- Conforms to EN 1891:2021 Type A

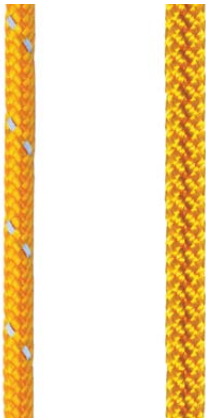
APPLICATIONS

- Abseiling
- Belay
- Static descent
- Safety line
- Rescue line
- Access line

RANGE

- 11mm
- 200m reels

Water Rescue



FEATURES/ BENEFITS

- Reflective marker tape with Retro reflectivity ensures any light source will easily pick out the reflective tape to guide deployment & retrieval
- Braided PP multi cover & twisted core gives construction that allows for easy flaking & deployment from throw bag or valise
- Strong, lightweight, abrasion resistant & floats

APPLICATIONS

- Water Rescue Throw Rope
- Air Rescue kits
- Confined spaces with minimal light
- Helicopter High-line Rescue Line
- Life Lines

RANGE

- 6mm - 12mm available upon request

Hanging by a thread

Donaghy "Response" range of static lines covers all applications of height safety from semi static applications with Response® LSK to higher end static line applications with Response® XT. The Response® range was designed with safety in mind to deliver the most "responsive" and reliable static decent braids available.

Whether you're seeking the precision of the Response® XT or the refined structure of the Response® LSK, these products are meticulously crafted to deliver superior performance, longevity, and flexibility for a wide range of applications.



CONSTRUCTION

Response® abseiling braids are manufactured to the construction standards defined as "Low Stretch Kernmantle Rope, a textile rope consisting of a core enclosed by a sheath designed for use by persons in rope access including all kinds of work positioning and restraint for rescue and speleology".

Parallel & Plaited Core Yarns

Response® XT: The parallel twisted core that runs along the entire length of the braid is paired with a harmonized sheath, providing enhanced flexibility and consistent response under tension.

Response® LSK: In contrast, features a unique plaited core design that runs along the entire length of the braid, paired with a sheath harmonized to the intricate plaits for a smooth, uniform finish that ensures reliable performance in all conditions.

SHEATH TECHNOLOGY

Both Response® XT and Response® LSK feature a highly engineered 32-plait sheath designed for superior durability and performance, ensures low elongation values and minimises sheath slippage, making it ideal for applications that require precision and reliability.

Response® XT: The advanced heat-set construction of the Nylon sheath enhances its performance, providing exceptional durability under stress. The full-colour sheath contrasts sharply with the white core, acting as a clear visual wear indicator, so you can easily monitor the condition of the yarn.

Response® LSK: Similarly, boasts the same 32-plait design made from HT Polyester, offering robust protection and low elongation, while maintaining consistent performance across a wide range of conditions.

MATERIAL

Response® abseiling braid cores are crafted from premium-grade Polyamide Nylon.

These fibres exhibit an elongation of approximately 40% at break. However, when wet, both elongation and tensile strength are reduced by 5-10%.

The fibres offer excellent resistance to diluted mineral acids, organic acids and alkalis, organic solvents, as well as mildew and fungi.

MARKINGS

- All Response® braids contain a marker yarn in the core to identify the year of manufacture. The colour marker is changed each calendar year and a record is held of the sequence of change.
- Certified compliant braids contain a marker tape with the statement "Donaghys abseiling braids for static life rescue lines" and a reference to the relevant standard, which repeats through the length of the braid.

CERTIFICATION

- 11mm LSK & XT conforms to EN 1891:2021 Type A
- 13mm & 16mm LSK conforms to EN 1891:2021 Type A
- Manufactured under ISO9001:2015



Theatrical Rigging

Fine Braids



APPLICATIONS

- Blind draw cord
- Whipping cord
- Tying lashing
- Lacing cord

RANGE

- 1mm - 5mm white smooth braids in 100m and 300m reels
- 3mm - 12mm White textured braids
- 3mm black textured braid available in 500m reels

FEATURES/ BENEFITS

- Hard wearing high tenacity Polyester fibre supple plait construction
- Available in smooth (16 plait) and textured (8 plait) options
- Highly resistant to stretch, abrasion, UV degradation and discolouration
- Excellent knotting and untying properties

Black Sash Cord



APPLICATIONS

- General purpose cord
- Pulley rope
- Curtain lashing

RANGE

- Polyester cords in 6mm x 100m reels available upon request

FEATURES/ BENEFITS

- Hard wearing Polyester fibre knitted construction
- Smooth feel
- Water resistant
- High abrasion resistance
- UV resistant
- Knots well, without kinks

Brights



APPLICATIONS

- Pulley rope
- Curtain lashings

RANGE

- 4mm - 12mm
- 100m reels
- 4mm, 10mm and 12mm made to order

FEATURES/ BENEFITS

- Double braid construction, manufactured from high tenacity Polyester
- High jacket to core ratio assisting long life
- Excellent break load, UV and abrasion resistance
- Resistant to kinking, hockling and twisting
- Easy to splice

Theatrical Rigging

Polyester Rope



APPLICATIONS

- Lashings
- Lifting and tying
- Restraints

RANGE

- 6mm - 16mm White
- 10mm - 20mm Black

FEATURES/ BENEFITS

- High strength and torsion resistant
- Soft feel, easy handling, coiling, knotting & splicing
- Excellent abrasion and UV resistance
- Equivalent wet/dry strength ratio
- Low creep under load
- Sinks in water
- Blue internal marker (14mm+) as per Australian standard

Synthetic Hemp



APPLICATIONS

- Rigging
- Counterweight systems

RANGE

- 22mm x 250m
- Other diameters available upon request

FEATURES/ BENEFITS

- 3 strand Polypropolene construction
- Holds shape under load
- UV stable
- Replacement for natural fiber ropes

Response®



APPLICATIONS

- Abseiling
- Belay
- Static decent
- Safety line
- Rescue line
- Access line

RANGE

- 11mm
- 200m reels
- Other diameters available upon request

FEATURES/ BENEFITS

- Low stretch, high strength
- Kernmantle construction with Polyester cover and Nylon core
- Quick access and excellent knot holding
- Conforms to EN 1891:2021 Type A
- Manufactured under ISO 9001: 2015
- Includes internal year of manufacture marker yarn and internal standards marker

UHMWPE Rigging Braid



APPLICATIONS

- Wire replacement
- Operating line
- Stunt rigging
- Tie off line

RANGE

- 2mm - 10mm

FEATURES/ BENEFITS

- 12 strand UHMWPE hollow braid construction
- UHMwPE is 15 times stronger than steel wire rope and 8 times lighter on a weight for weight basis
- High UV and chemical resistance
- Solution dyed yarns, will not fade
- High strength to weight ratio
- Non reflective finish
- Minimal stretch
- Excellent grip
- Easy to splice

T12 Rigging Braid



APPLICATIONS

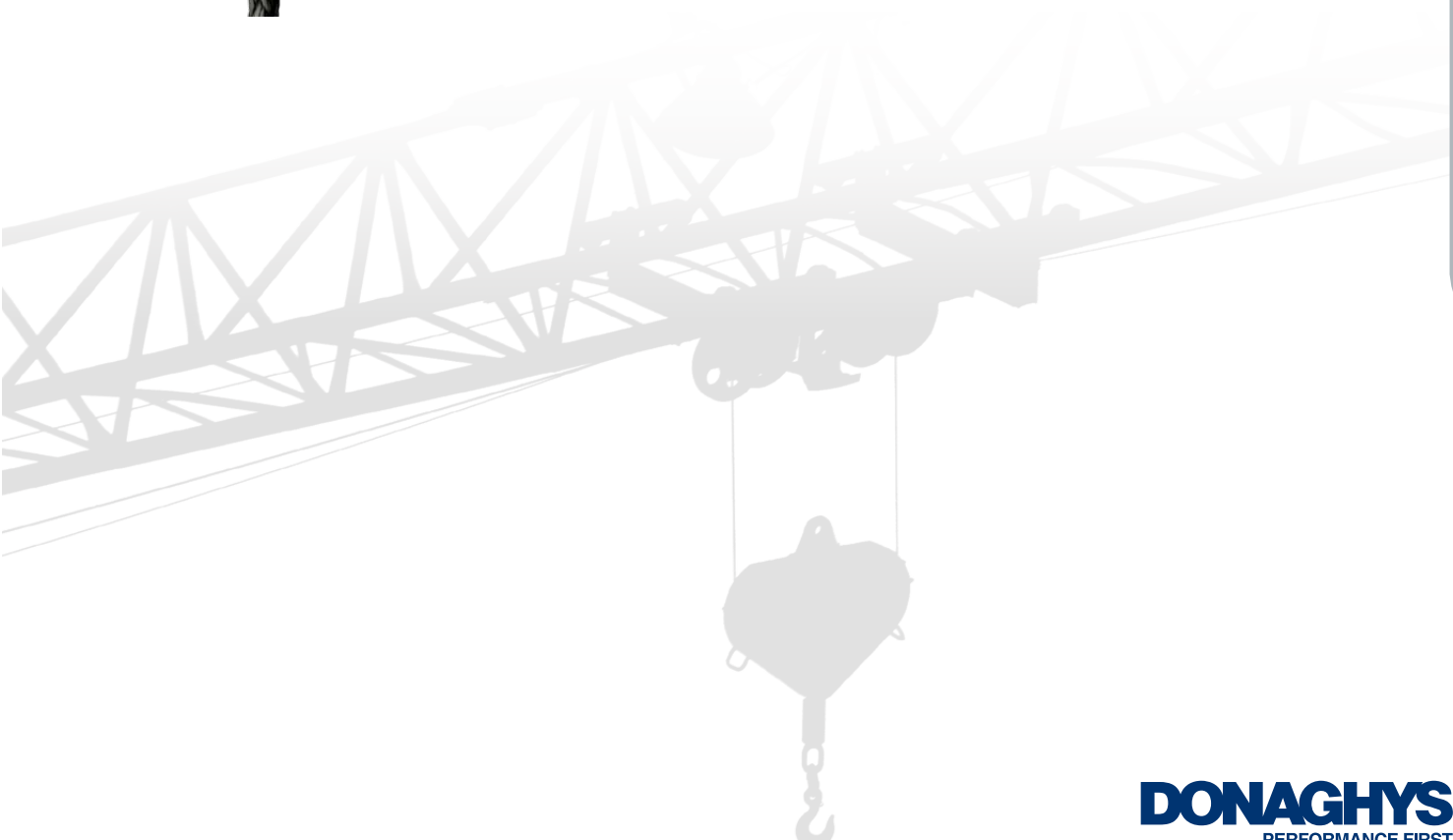
- Wire replacement
- Operating line
- Camera zip lines
- Stunt rigging
- Tie off line

RANGE

- 3mm - 8mm available upon request

FEATURES/ BENEFITS

- 12 strand Technora® hollow braid construction
- Extreme heat resistance
- High strength to weight ratio
- Non reflective finish
- Great creep resistance
- Easy to splice







Telecommunications

Sub Surface Telecommunications Hauling Products


3mm PP Mono Braid Orange

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Light ropes for Fibre Optic Cable installation into main ducts <p>RANGE</p> <ul style="list-style-type: none"> - 3mm x 1000m 	<ul style="list-style-type: none"> - Much stronger than PE Mono Substitutes - Highly abrasion resistant - Braided construction handles well - Easily spliced - App Break Force of 90 kg <p>PRODUCT CODE: RBRS0324 Telstra item code: 675/00083</p>

4mm PP/PE Mega Rope

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Medium ropes for small/ medium cables into main ducts @ 100mm I.D <p>RANGE</p> <ul style="list-style-type: none"> - 4mm x 1000m 	<ul style="list-style-type: none"> - 3 strand construction with 1000m continuous length - Packaged on easy use flange reels - App Break Force of 200kg <p>PRODUCT CODE: RPRP0404</p>

6mm PP Rope Blue/ Yellow

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Medium ropes for small/ medium cables into main ducts @ 100mm I.D <p>RANGE</p> <ul style="list-style-type: none"> - 6mm x 400m - 6mm x 500m 	<ul style="list-style-type: none"> - Telstra certified product and contract supplier - Tangle free uncoiling to coil end, no waste - Available in both 400m and 500m coils - App Break Force of 602kg <p>PRODUCT CODE: RROS0614 AND RROS0652 Telstra item code for 400m: 675/00294</p>

Conduit Ezi - Blow/ Ezi - Pull Lines & Accessories



PP Pull Line

- Manufactured from Virgin PP for high strength and durability
- 4500 tex, available in 950m spools
- App Break Force of 163kg

PRODUCT CODE: RLAS0111D


PP Pull Line

- Pull from centre spools for tangle free deployment of lashing
- 2240 tex, available in 1830m spools
- App Break Force of 90kg


PRODUCT CODE: RLAS0110D

Mechanical & Specialty Hauling Braids


PP/ PE Aquatec Rope - 3 strand Hawser laid Crushed Mono Rope

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Mechanical hauling rope for general Capstan Winches and specialty uses <p>RANGE</p> <ul style="list-style-type: none"> - 4mm - 40mm 	<ul style="list-style-type: none"> - Excellent abrasion and shock load resistance - High strength to weight ratio - UV resistant with excellent weathering properties - Excellent for knotting and splicing - Not affected by water - Ideal for cable hauling, Industrial & Marine applications where reliability and performance is key

Polysteel® Rope 3 strand hawser laid & 12 strand plaited

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Mechanical hauling rope for general Capstan Winches and specialty uses <p>RANGE</p> <ul style="list-style-type: none"> - 6mm - 46mm in 3 strand available upon request - 18mm - 60mm in 12 strand available upon request 	<ul style="list-style-type: none"> - High quality tensile synthetic rope - High strength to weight ratio - High abrasion resistance - UV resistant with excellent weathering properties - Not affected by water

Yachtmaster XS Double Braid

	APPLICATIONS	FEATURES/ BENEFITS
	<ul style="list-style-type: none"> - Mechanical hauling braid for Capstan Winches and specialty uses <p>RANGE</p> <ul style="list-style-type: none"> - 5mm - 16mm in 100m reels, other diameters and lengths available upon request 	<ul style="list-style-type: none"> - Double braid construction in high tenacity Polyester - High jacket to core ratio assisting long life - Excellent break load, UV and abrasion resistance - Resistant to kinking, hockling and twisting - Easy to splice, sewn eye options also available - Larger diameters and custom made lengths available upon request

Cable Haul Braids



APPLICATIONS

- Mechanical and specialty hauling

RANGE

- 14mm in 182m and 365m
- 19mm in 182m, 365m and 500m
- 21mm in 182m, 365m and 500m

FEATURES/ BENEFITS

- Double braid composite Polyester/ Nylon construction
- High strength, shock absorbing plaited Nylon core with hard wearing high tenacity Polyester Jacket
- Provides excellent grip on winches and remains supple for continued winch use
- Resistant to kinking, hocking and twisting
- Available pre-spliced with 150mm soft eyes each end

Superbraid Hauling Braid



APPLICATIONS

- High performance mechanical and specialty hauling

RANGE

- 4mm - 24mm in 200m reels
- Larger diameters and longer lengths available upon request

FEATURES/ BENEFITS

- Light weight Stealth® UHMWPE core with high tenacity Polyester cover provides high strength with minimal stretch
- Treated with Donaghys Bindacoat on core to prevent core/ cover slippage
- Excellent bend radius properties and withstands shock loadings better than Aramid fibers

Stealth® UHMWPE Winchline



APPLICATIONS

- High performance mechanical and specialty hauling
- Wire replacement
- Winch ropes
- Drone stringing
- Cable hauling

RANGE

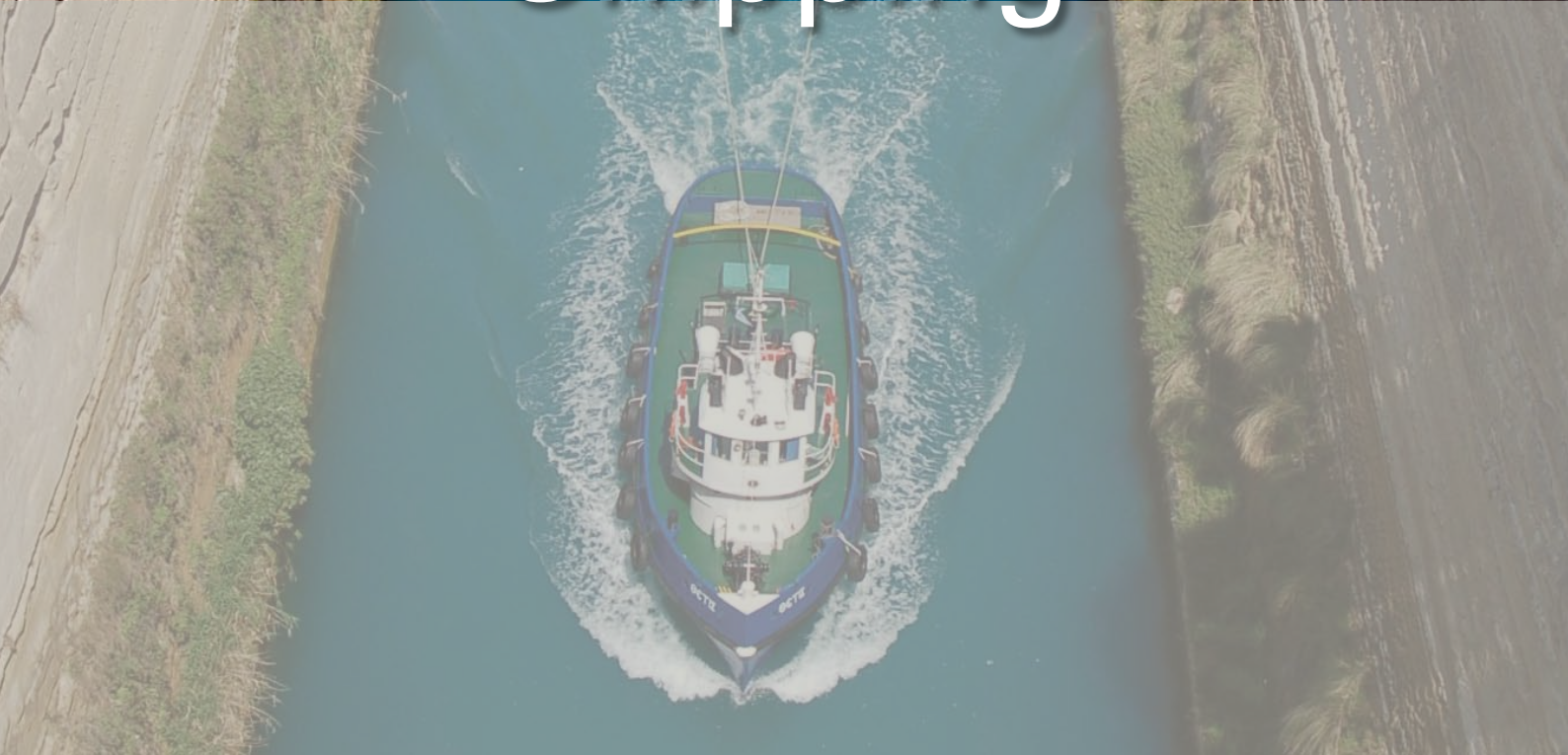
- 1mm - 44mm, larger diameters available upon request

FEATURES/ BENEFITS

- Extreme strength to weight ratio
- UHMWPE is 15 times stronger than steel wire rope and 8 times lighter on a weight for weight basis
- High UV and chemical resistance
- Floats and does not absorb water
- Low stretch, low creep
- Virtually no recoil in the unlikely event of failure
- Will not kink
- Easy to splice
- Abrasion resistant coating provides longevity and superior winch drum grip
- Long continuous lengths available which removes waste factors and enhances hauling/winch lines integrities



Shipping



Tiger Rope



APPLICATIONS

- Marine, fishing, rural, heavy industrial, oil exploration
- Slings
- Mooring
- Towing
- Docking
- Anchoring
- Fibre rope tails

RANGE

- 24mm - 80mm 8 strand in 220m coils, pre-spliced with 1.8m covered soft eyes each end
- 12 strand options available upon request

FEATURES/ BENEFITS

- Abrasion resistant
- High strength to weight ratio
- Shock load resistant
- UV resistant with excellent weathering properties
- Not affected by water
- Floats on water
- Kink resistant
- Distinctive colours
- 1.8m HD covered eye splice each end
- Certified to standards and supplied with either ABS, APAVE, DNV or MEG4 Certification
- Break force conforms to ISO2307:2019
- Testing conforms to ISO15072:2009 and ISO1346:2021

Aquaflex Rope



APPLICATIONS

- Towing stretchers
- Single point moorings
- Mooring lines
- Mooring jaws
- Slings
- Anchoring
- Fibre rope tails

RANGE

- 48mm - 80mm 8 strand in 220m coils, pre-spliced with 1.8m covered soft eyes each end
- 12 strand options available upon request

FEATURES/ BENEFITS

- High performance economical mooring line
- Equivalent wet/dry strength
- High strength to weight ratio
- Excellent abrasion resistance against internal and external friction
- TOLL value of 73%. TOLL is the actual BF of wet rope after 1000 cyclical loadings. This is expressed as a percentage of original wet break strength
- Excellent shock load absorption
- Specific gravity 1.1 i.e. neutrally buoyant
- Remains flexible and easy to splice in use
- Certified to standards and supplied with either ABS, APAVE, DNV or MEG4 Certification

Toughsafe PRO Mooring Rope



APPLICATIONS

- Mooring lines
- Snap back reduction

RANGE

- 48mm to 72mm
- 220m coils, pre spliced with 1.8m covered eyes each end

FEATURES/ BENEFITS

- 12 strand construction with core
- Anti kinetic properties incorporated to reduce dangerous recoil of rope
- Equivalent wet/ dry strength ratio
- Combined specific gravity of 0.99
- High abrasion and chemical resistance
- UV stable
- Certified under ABS according to OCIMF mooring equipment guidelines 4 (MEG4)

Tiger Mooring Tails



FEATURES/ BENEFITS

- For use with mooring lines to provide stretch
- Provides protection from surging and shock loading
- Easy to handle
- Easy to inspect
- Certified to standards and supplied with certification
- 50/50 Polypropylene/Polyethylene blend
- 11m finished length measured eye to eye, 1.8m covered eyes each end

APPLICATIONS

- Mooring stretchers
- Towing pennants
- Anchoring tails

RANGE

- 48mm - 80mm
- 8 strand construction
- 11m lengths pre-spliced with 1.8m covered soft eyes each end

Aquaflex Mooring Tails



FEATURES/ BENEFITS

- For use with mooring lines to provide stretch
- Provides protection from surging and shock loading
- Easy to handle
- Easy to inspect
- Certified to standards and supplied with certification
- 45/55 Polypropylene/Polyester blend
- 11m finished length measured eye to eye, 1.8m covered eyes each end

APPLICATIONS

- Mooring stretchers
- Towing pennants
- Anchoring tails

RANGE

- 48mm - 80mm
- 8 strand construction
- 11m lengths pre-spliced with 1.8m covered soft eyes each end

Stealth® UHMWPE Winchline



APPLICATIONS

- Wire rope replacement
- Winch lines
- Berthing lines
- Towing line
- Slings

RANGE

- 1mm - 44m, larger diameters made to order
- Custom lengths with terminations or jacketed options available upon request

FEATURES/ BENEFITS

- Manufactured from UHMWPE, high strength to weight ratio
- High UV resistance.
- Low stretch and creep properties
- High internal and external abrasion resistance with liquefied polyurethane coating
- Floats and does not absorb water
- Easy to inspect and splice

Soft UHMwPE Shackles



APPLICATIONS

- Commercial Marine
- Offshore

RANGE

- 1.2 tonne - 600T

FEATURES/ BENEFITS

- The perfect replacement for traditional metal shackles
- UHMwPE soft fibre shackle protected by an abrasion and UV resistant Urethane coating
- Will not rust or corrode
- Soft and will not damage surfaces around it
- Will not shatter in the event of a failure as with metal shackles
- Versatile, lightweight, safe and easy to use
- All shackles 15.7 tonne and above comes complete with cover
- Optional covers available on other sizes on request

Mongoose® D-Lite™ Shackle



APPLICATIONS

- Conventional steel shackle replacement
- Commercial Marine

RANGE

- 62.5T to 500T

FEATURES/ BENEFITS

- Extreme strength-to-weight ratio, 50% lighter than conventional steel shackles
- Hydrophobic fibre crown (no water absorption)
- Synthetic fibre crown maintains high strength around tight radius bends
- HMPE covered eyes to ensure high performance against abrasion
- High tensile steel pins with integrated locking end cap with locking screw



General

Polyester Fine Braids



APPLICATIONS

- Blind draw cord
- Whipping cord
- Lacing cord
- Tying lashing
- Motor starter cord

FEATURES/ BENEFITS

- UV stabilised
- High abrasion resistance
- Multi-purpose applications
- Excellent knotting and untying properties
- Starter cords are strong, durable, low stretch, high tenacity Polyester cords with maximum abrasion resistance

RANGE

- 16 plait smooth 1mm - 5mm white in 100m and 300m reels
- 8 plait textured 3mm - 12mm White, 3mm black in 500m reel
- Starter cords 3.5mm - 5mm in 100m reels to suite all leading equipment starter mechanisms

Shock Cord



APPLICATIONS

- General purpose marine, automotive and industrial

FEATURES/ BENEFITS

- Durable and abrasion resistant
- Resists UV degradation
- Not affected by water

RANGE

- 3mm - 10mm Black, larger diameters available upon request
- 3mm - 14mm White with Blue fleck available upon request

PP Ropes



APPLICATIONS

- Marine / Fishing
- Mining / Construction
- Rural
- Trucking
- Ladder ropes
- Nets
- Tarpaulin ties
- Slings
- Control ropes
- Head lines
- Ducting draw cords
- Cable hauling

FEATURES/ BENEFITS

- Tough, abrasion resistant
- High strength to weight ratio
- UV stabilised with excellent weathering properties
- Excellent handling and splicing properties
- Unaffected by water
- Resistant to oils, petrols, common solvents, bacteria and fungi

PE Silver Rope



APPLICATIONS

- General industrial/marine
- Truck ropes
- Head lines
- Slings
- Industrial riggings
- Tarpaulin ties
- Floor ropes
- Mooring/Anchor lines
- Truck nets
- Agriculture

FEATURES/ BENEFITS

- Superior strength
- Wear and abrasion resistant
- UV stabilised with excellent weathering properties
- Surface characteristics provide excellent knotting and handling properties
- Floats
- Not affected by water
- Resistant to fungal attack
- Available in monofilament and fibrillated film construction

RANGE

- 6mm - 40mm coils
- 4mm - 12mm Solid White
- 14mm - 40mm White with Green/Gold fleck
- 4mm - 16mm PE mono reels available for retail
- 12mm - 32mm PE mono coils

Aquatec



APPLICATIONS

- Marine, fishing, rural, heavy industrial
- Slings
- Mooring/Docking
- Towing
- Anchoring
- Tarpaulin lines
- Nets
- Control ropes

FEATURES/ BENEFITS

- Abrasion resistant
- High strength to weight ratio
- UV stabilised with excellent weathering properties
- Not affected by water
- Excellent knotting and splicing

RANGE

- Green 4mm - 40mm

Polyester



APPLICATIONS

- General industrial
- Marine and safety sector
- Slings
- Bolt ropes
- Hoist ropes
- Safety lines
- Docking line
- Theatrical rigging

FEATURES/ BENEFITS

- High strength and torsion resistant
- Soft feel, easy handling, coiling, knotting & splicing
- Excellent abrasion and UV resistance
- No strength loss when wet
- Low creep under load
- Sinks in water
- Blue internal marker (14mm+) as per Australian standard

RANGE

- 6mm - 16mm White
- 10mm - 20mm Black

Nylon



APPLICATIONS

- Slings
 - Forestry ropes
 - Anchor warps
 - Safety lines
 - Safety nets
 - Mooring lines
 - Car tow rope
- RANGE**
- 6mm - 16mm reels
 - 10mm - 24mm coils

FEATURES/ BENEFITS

- Good strength - higher than Polyester rope
- Abrasion and UV resistant
- High extension and recovery
- Soft feel and easy handling
- Excellent shock absorption
- Sinks in water
- Excellent mooring, anchor & dock line
- Green internal marker (14mm+) as per Australian standard

Sisal



APPLICATIONS

- Mining
- General industrial
- Truck ropes
- Rope handles
- Barrier ropes
- Halters and nets
- Driver ropes
- Slings
- Tag lines

FEATURES/ BENEFITS

- Tough, abrasion resistant nature fibre
- Good external wear
- Versatile
- Non-conductive
- Easily spliced
- Biodegradable
- Excellent for knotting and splicing

RANGE

- 4mm - 12mm reels
- 6mm - 40mm coils

Manila



APPLICATIONS

- Marine
- Shipping
- Lifting
- Driving ropes
- Slings
- Rope ladders
- Cargo Nets
- Safety nets
- Block fall ropes
- Decorative purposes
- Tag lines
- Tug-o-war rope

FEATURES/ BENEFITS

- Tough, abrasion resistant nature fibre
- Soft feel, smooth handling
- Biodegradable
- Non-conductive
- Low stretch
- Resistant to weather, fungal attack and moisture

RANGE

- 6mm - 40mm coils



Accessories

Hot Knife



FEATURES/ BENEFITS

- Available in 18V cordless and 240V hand held
- For use on Synthetic ropes, Twines, Braids and Webbing
- Cuts and seals low melting point Synthetic fibres with ease
- Not suitable on Natural, Vectran®, Kevlar® or PBO fibres
- Hand Held cutter comes complete in a carry case with R blade, wire brush cleaner, Allen key, and operating instructions. Power type 220-230V ~ 60W
- Spare cutter blades available

Cordless Hot Knife



FEATURES/ BENEFITS

- Cordless option offers portability and double protection thermostat to prevent overheating. Features an On/Off spring loaded safety trigger
- Cordless kit comes complete in a carry case with cutter, Allen key, wire brush cleaner, Li2005 battery pack, R blade and charger (100-240V AC, 21V 1.5AH)
- Cordless hot knife spare batteries available in 18V
- Spare cutter blades available
- Spare Batteries available

Rope Measurer



FEATURES/ BENEFITS

- Accommodates rope and cordage from 6mm to 20mm in diameter
- The toothed measuring wheel and stainless steel pressure shoe assures uninterrupted NO SLIP contact with cordage
- Bench mounted, wall mounting options available upon request
- Not suitable for wire, wire rope or rubber coated materials

Donaghys Splicing Kit



FEATURES/ BENEFITS

- Splicing kits come complete with splicing instructions, also available on our website
- Contains five splicing fids and a wire fid pusher
- Fid sizes: 4mm, 6mm, 8mm, 10mm and 12mm
- Suitable for splicing double braid ropes 6mm to 24mm

Selma Splicing Kit



FEATURES/ BENEFITS

- Splicing kits come complete with splicing instructions, also available on our website
- Contains five splicing fids
- Fid sizes: 4mm, 5.5mm, 7.5mm, 10mm and 13mm
- Suitable for splicing double braid ropes up to 32mm, hollow braid ropes up to 20mm and 3 strand ropes up to 36mm

Lifebuoy Cabinet



FEATURES/ BENEFITS

- 30m floating PE braided line (8mm diameter) with clip included
- Suitable for attaching to lifebuoys and life rings
- Cabinet can store both 30 inch and 24 Inch round Lifebuoy Rings with the encapsulated floating line holder paddle
- Removable lid protects the lifesaving equipment against the elements
- Cabinet can be mounted directly to a wall/ flat vertical surface, fence or to our purpose built galvanized mounting poles via a recess on the back of the cabinet
- Strong resistance to corrosion. UV damage and the elements
- Dimensions: 850mm x 850mm x 230mm
- Weight: 6.5kg

* Lifebuoy rings sold separately

Lifebuoy Cabinet components sold separately



Lifebuoy Cabinet Lid

- Material: Polyethylene
- Dimensions: 640mm x 800mm x 70mm
- Weight: 3kg



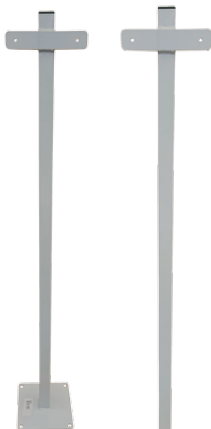
Lifebuoy Ring

- SOLAS approved
- Material: Polyethylene
- Dimensions: 710mm x 710mm x 100mm
- Weight: 2.5kg



Lifebuoy Paddle with Float Rope

- Encased Polyethylene paddle
- Paddle fits in the internal diameter of the lifebuoy ring
- Contains 8mm x 30m Polyethylene Heaving Line
- Polyethylene Heaving Line has a 279kg break load
- Dimensions: 480mm x 70mm x 120mm
- Weight: 0.557kg



Galvanised Mounting Poles

- Galvanised - powder coated grey
- 1.5m Pole with base plate mounted for installation
- Pole dimensions: 40mm x 40mm
- Weight: 5kg
- Base plate dimensions: 200mm x 200mm
- 2m Pole for below surface mounting available upon request
- Pole dimensions: 40mm x 40mm
- Weight: 5.5kg

Terminations/ Hardware

Donaghys are proud to offer an in-house splicing service available on all our rope and cordage products, delivered to you packaged in cartons or reeled onto timber drums.



Soft Eye Splice

- Flexible soft eye which can be tailored for inner eye sizing
- All rope constructions i.e. 3 strand, 8, 12 and double braid can be spliced



Thimble Eye

- Standard thimble eye (with open "V"), available in galvanised steel, stainless steel or nylon
- Strengthens and protects spliced eye against abrasion
- Light applications e.g. anchor ropes



Sewn Eye

- Sewn eye options available to braided ropes from 6mm to 16mm
- Retains more strength than a conventional splice
- Thimble options available



Tube Webbing Serving

- Available for soft eye covering or both eyes and full body
- Protects from grit which can cause internal or external damage through abrasion
- Applying to eye gives added life by protecting at the bearing point



Endless Spliced Grommet

- A flexible continuous rope join primarily for 12 strand ropes
- Join to be positioned between bearing point and load
- 1.6 times strength of braid tensile in grommet configuration



End Whipping

- It is important that whipping is applied to any bare end of rope in order to prevent the unraveling or fraying of the strands



Drum Winding

- Winch line delivered in this form allows for easy rewinding onto existing winch drums
- Also protects line against damage during transport



Galvanized Steel Thimble

- Manufactured from heat treated high tensile steel
- Suitable for high use, high load applications
- Strengthens and protects spliced eye against abrasion
- Available in standard or AS1138 compliant



Steel Tubed Thimble

- Offer greater protection for the eye
- Tubed ends help encapsulate rope to prevent thimble falling out



Gusseted Tubed Thimble

- Heavy duty applications
- The gusset prevents the distortion of thimble under extreme load



Captive Thimble Eye

- Heavy duty applications
- Captive thimble eye with welded " V "
- Recommended for use with synthetic ropes to keep the rope and thimble uniform at all times



Eye Sling Hook with Safety Latch

- This fitting is used in conjunction with a steel thimble for many industrial applications
- Rated and AS3776 compliant



Care & Maintenance

Care & Maintenance

Extreme care must be employed in use of any load bearing device. Misuse may lead to injury. To ensure you select the right product for your application, consider these key factors:

- Rope selection must consider all fibre characteristics, manufacturer's load certification and mode/factors as per the Australian standards.
- Ropes should not be subject to dynamic (shock) loading i.e. sudden application of 10-15% of BF rating.
- All mechanical hardware must be free from defect and subject to inspection prior to use i.e. pulleys, shackles, terminations etc.
- Ropes should not be subjected to excessive heat abrasion or chemical exposure. (fibre characteristics published on each product fact sheet)
- Strength loss factors must be applied to splicing (10-20% dependant on type) and up to 50% for basic knotting used for joining or termination.

ALWAYS:

- Consider all factors applying to the job at hand.
- Consider all relevant standard and manufacturer's information provided with the product for use.
- Avoid abrasion, shock loading, overloading, extreme bend ratio's or environments.
- Consult Donaghys for further technical information and assistance as required.

During rope inspection, the following should be considered.

EXTERNAL WEAR

Braids develop fur/pile on the surface as a result of friction and abrasion. This is normal and forms a protective barrier to the main body of the jacket yarns initially.

Excessive wear is indicated by severe yarn filamentation or breakage either distorting the round profile of the braid, breaking yarns or exposing the core materials through the jacket. Note, certified kernmantle braids must have a contrasting colour core to jacket to assist this inspection.

In the event of significant jacket wear the braid must be retired immediately.

INTERNAL WEAR

Dirt, grit or other foreign matter may penetrate between the core and jacket constructions. Examination must be undertaken carefully being mindful not to buckle or distort fibres in this process which may cause problems later.

The presence of large quantities of fibre duct in the centre of the rope indicate that replacement is due.

CHEMICAL OR SUNLIGHT ATTACK

Degenerative contamination can occur to synthetic fibres through accidental exposure to chemicals. Nylon is sensitive to strong oxidising agents and mineral acids. It is soluble in formic acid, concentrated sulphuric acid and phenolic compounds. Examination should determine whether any areas of fusion or carbonisation are present. If in doubt, discard the braid. The entire length of the rope should be carefully inspected prior to and at completion of every use.

Avoid using rope that shows signs of wear. If in doubt, retire the rope.

Jackets protect the strength and integrity of braided rope cores, the profile loss % age guide to retirement is:

- 3 strand rope: 8-15%
- 8 & 12 strand braids: 20-25%
- 16 & 24 carrier braid on braid jackets: 40%

Once a rope has been subjected to shock loading, potential internal damage decrees it must be replaced. Ropes displaying inconsistencies in size, colouration or work hardened (stiffening) should be retired.

PROTECTIVE MEASURES

Always store, transport and contain braids in a dustproof, strong storage area which is impervious to light.

Always use Donaghys braids and fibre rope slings only for the purpose they have been designed and intended. It is good practice to maintain a braid history/usage log to assist in determining a responsible retiring date on aged product.

Shelf life for nylon kernmantle braids and synthetic fibre rope slings is estimated as a maximum of 10 years when stored in a cool, dry and UV light excluded environment. There must be no exposure to chemicals or fumes.

In the event of limited casual usage, an estimated six years would apply where no significant wear is evident, internally or externally of the braid.

Always apply conservatism to rope use as the following factors will ensure long life in application:

- A larger/stronger rope will work at lesser loading capacity and last longer.
- Wear sleeves can be used to protect from excess chaffing and localised wear points.
- Always purchase from a reputable certified manufacturer as your best guarantee of reliability.

SPLICING

Splicing produces a fastening point which has a strength of up to 90% of the un-spliced rope when completed correctly.

Inspect regularly and in the case of a plaited rope splice, ensure that no new fibres appear at the neck of the splice.

If the rope eye appears to be moving i.e. if clean rope appears, we recommend you seek professional advice of rigging specialists.

FITTINGS

Ensure that all moving parts of fittings or blocks are performing freely as seized blocks and swivels can damage ropes very quickly. For information on recommended sheave diameters, please consult your retailer.

CARE

At the end of each season all ropes should be immersed in lukewarm clear water, with non-halogenic mild detergent additive if required to remove traces of dirt or salt which can harm ropes. Drying is best achieved in a cool, shaded area with healthy air circulation.

Technical

FIBRE QUALITIES

FIBRE TYPE	DESCRIPTION	SPECIFIC GRAVITY	SENSITIVE TO	RESISTANT TO	HEAT REACTION	STRENGTH AND ELONGATION
Sisal	Agave Sisalana/ Vegetable fibre	1.5	Mineral acids, paints, detergents, chemical salts, fats, weathering and sunlight	Volatile petroleum solvents, batching oils and alkalis	Burns as fire touches flame. Supports combustion.	Fibre elongation: Dry: 2.9%, Wet 3.4% Rope Elongation: Dry: 13%, Wet 16% Extension causes rupture.
Manila	Abaca Musa Textilis 65% cellulose, 12% water, 22% pectin	1.5	Mineral acids, weak or strong paints, detergents, chemical salts, fats, weathering and sunlight	Volatile petroleum solvents, batching oils and alkalis	Critical temp is 150°C after which fibre burns at flame. Supports combustion.	Fibre elongation: Dry: 2.8%, Wet 3.2% Rope Elongation: Dry: 13%, Wet 15% Extension causes rupture.
PP (Polypropylene)	Continuous Filament	0.91	Sodium hypochlorite and some hot organic solvents. Very susceptible to sunlight but with suitable additives, loss of strength is retarded.	Hot and cold acids like alkalis	Shrinks rapidly from flame. Curls and melts at about 165°C.	High tenacity. Good recovery from stretch and elongation at break for film ropes is 25-30%.
PE (Polyethylene)	Continuous Filament	0.95	Xylene at 95°C, hot nitric or Sulfuric Acids. Some hot organic solvents. Sensitive to prolonged sunlight exposure.	Most acids, alkalis, grease, oils and organic solvents.	Softens 100°C, Melts 110-120°C.	High tenacity with good recovery after stretch and extension at break of 50%.
Polysteel®	Continuous Filament	0.91	Strong Oxidizing Agents, Organic Solvents (at high temperatures), UV Radiation + Chemicals combined, Concentrated acids/bases at high temperatures.	Most acids & alkalis, Salts & Brines, Alcohols, Oils & Hydrocarbons, Water & Aqueous Solutions.	Melts at 164°C Working temp limit Low -26°C, High 93°C.	Equivalent wet/dry strength ratio. Elongation 18-22% at Break.
Polyester	Continuous Filament	1.38	Alkalis, Phenolic Compounds, Sulfuric Acid.	Most Organic and Mineral Acids, Solvents, Bleaches and Oxidizing Agents.	Softens 228°C, Melts 255°C.	Equivalent wet/ dry strength ratio. Elongation 12% at Break.
Polyamide (Nylon)	Continuous Filament	1.14	Strong Acids and Oxidizing agents, soluble in formic, Sulfuric Acids and Phenolic and most Bleaches.	Alkalis, Alcohols, esters, Hydrocarbons and most bleaches	Nylon 6,6 Softens 229°C. Melts 249-260°C.	Elongation Dry 40 %, Wet 35%. 90-95% strength ratio wet/ dry.
UHMwPE Ultra High Molecular Weight Polyethylene	Continuous Filament	0.97 g/cm3	Strong oxidising agents. Chlorosulfonic & Nitric acids at high temperatures. Slightly affected by Sodium Hydroxide (pH>14)	Most acids & alkalis, cold alcohols, ethers, esters, ketones & bleaches.	Softens 144°C, Melts 152°C.	Equivalent wet/dry strength ratio. Elongation 4% at Break.
Technora®	Spun Filament	1.39	Hydrochloric, hydrobromic and sulphuric acids, bleaching and sunlight.	Mineral and organic acids, alkalis, organic solvents, sea water and steam.	500°C+ decomposition.	Equivalent wet/dry strength ratio. Elongation 4.5% at Break.
Aramid (Kevlar®)	Continuous Filament	1.44	Hydrochloric, hydrobromic and sulphuric acids, bleaching and sunlight. Highly sensitive to abrasion.	Mineral and organic acids, alkalis, organic solvents, mildew and fungi.	371°C decomposition.	Equivalent wet/dry strength ratio. Elongation 4% at Break.

COATINGS

Armor-Coat

Donaghys Armor-Coat is specifically engineered to enhance the performance of high-strength fibres. This advanced 2 part water based aliphatic coating improves abrasion resistance, provides superior UV protection, and facilitates easier splicing. Utilising cutting-edge nanotechnology, Armor-Coat bonds at the molecular level to individual fibres, forming a durable, protective barrier across the braid.

Armor-Coat Lite

Donaghys Armor-Coat Lite is specifically designed for high-performance double braid ropes, enhancing their internal abrasion resistance and increasing longevity. It improves durability and extends the service life of ropes by providing excellent resistance to wear, moisture, and environmental exposure. Armor-Coat Lite ensures your ropes stay strong, flexible, and reliable—helping you maintain safety and performance with every application.

Agri-Coat

Donaghys Agri-Coat is a purpose-built coating formulated to minimise fibre breakdown and preserve rope strength in high-ammonia and high-abrasion environments. Designed for use with our Stealth® Winchline, Agri-Coat provides robust protection against ammonia and other corrosive compounds commonly found in agricultural operations.

By shielding the rope from chemical degradation caused by prolonged exposure to livestock waste, Agri-Coat extends service life, reduces maintenance, and delivers consistent, reliable performance in demanding conditions.

Response® LSK Certification Criteria

Criteria	European Standard Certification		
	Actual Test Results	EN1891 Type A	Certified Compliant
Actual Break Force (Avg.kN)	31.9 kN	(A) > 22 kN	Yes
Static Strength Without Terminations	31.9 kN	≥ 22 kN	Yes
Static Strength With Terminations	≥ 15kN	≥ 15kN	Yes
Knot Break Force (Avg.KN)	19.00 kN	2300Kg	
Impact (Fall Test)	3.75 Falls		
Dynamic Performance (N)	5 Drops	N ≥ 5 Drops	Yes
Elongation (E)	3.2%	E < 5%	Yes
Fall Arrest Peak Force (F)	5.3 kN	F ≤ 6 kN	Yes
Knotability Ratio (K)	K 1.18	K < 1.2	Yes
Sheath Slippage (Ss)	0.3%	Ss < V * 100 / 1.930mm	Yes
Shrinkage	2.6%	Described in 5. 7 of the standard	Yes
Core Mass	49%	(A) Formula	Yes
Outer Sheath Mass	51%		
Mass Per Unit Length (M)	91 g/m	Described in 5.8 of the standard	Yes
Mass Of Outer Sheath Material (Sp)	51%	Sp min ≥ 30%	Yes
Mass Of The Core Material ©	49%	C min ≥ 32%	Yes
Core Material	Nylon		
Sheath Material LSK	Polyester		
Sheath Material XT	Nylon		
Rope Diameter (D)	11.2mm	8.5mm ≤ D ≤ 16mm	Yes

Note: Above results relate to independent testing of 11mm Response® LSK braid

BREAK LOAD

3 STRAND ROPES AVERAGE UNSPLICED BREAK LOAD CHART (KG)

Diameter (mm)	PE Silver Rope	PP Rope	PP/PE Aquatec	Polysteel®	Polyester	Nylon	Sisal	Manila	Synthetic Hemp
3		125							
4		214	240						
6	375	602	680	770	600	750	260	260	
8	620	1060	1200	1360	1020	1346	480	480	
10	945	1560	1800	2035	1600	2080	635	635	
12	1265	2210	2700	2900	2300	3000	955	955	2030
14	1440	3050	3600	3905	3200	4100	1285	1285	
16	2120	3770	4500	4910	4100	5300	1805	1805	3500
18	2590	4810	5800	6300	5100	6730	2140	2140	
20	3160	5800	6900	7600	6300	8260	2845	2845	5370
22				8900				3405	6500
24	4395	8130	9900	10490		12000	4070	4070	7600
26				12320					
30				16000					11500
28	5945		13200	13900			5325	5325	
32	7770		16800	17500			6865	6865	
36	9820			22080			8700	8700	
40	12140		25700	26860			10500	10500	

BRAIDED ROPES AVERAGE UNSPLICED BREAK LOAD CHART (KG)

Diameter (mm)	Water Rescue Ropes	Yachtmaster & Brights	Cable Haul Braid	Polyester Abseil	Cougar	Response® LSK & XT	Amor-Prus Poly	Armor-Prus Performance	Superspeed	Superbraid
4		400							310	
5		660							940	
6	550	900							1400	1400
8		1700					2300	2800	3400	3400
11					2800	3249				
10		2350					3297	4300	5700	5700
12	2000	3250		3300					9200	9200
13						4095				
14		4200	5568							12000
16		5600				5098				16900
18										19800
19			11600							
20										29900
22			13660							34700
24										45200

Technical

8 & 12 STRAND ROPES AVERAGE UNSPLICED BREAK LOAD CHART (KG)

Diameter (mm)	Polysteel® 12 Strand	PP/PE Tiger Rope 8 Strand	PP/Polyester Aquaflex Rope 8 strand	Toughsafe PRO 12 Strand	Nylon 8 Strand	UHMWPE Rigging Braid 12 Strand	T12 Rigging Braid 12 Strand	Stealth® UHMWPE Winchline 12 Strand
2						940		1200
2.5						1200		1200
3						1400	1000	1400
4						2400		2400
5						3400	2400	3400
6						4800	3400	4800
7						5800		5800
8						7300	5200	7300
9								9200
10						10800		10800
11								12100
12					3000	1700		17000
14					4100			19900
16								23600
18	6300							34800
20	7600							41300
22	8900							45800
24	10490	10200						55000
26	12320							67800
28	13900							76700
30	16000							87400
32	17500	17425						94000
36	22080							118700
38	24350							131100
40	26860	28000	34200	36400				145600
44	31780							174400
48	37180	39500	47400	51600				201100
56	49380	52000	63200	69400				271100
64		67550	81600	89600				333300
72		84500	102000	111900				403300
80		104000	125000	137000				466700



Celebrating 150 years' of service, quality and innovative rope solutions

AUSTRALIA

Head Office - Sydney
PO Box 4205, Bradbury
NSW 2560
Australia

FREEPHONE **1800 644 404**

E-MAIL sales@donaghys.com

NEW ZEALAND

Head Office - Christchurch
16 Sheffield Crescent, Harewood
PO Box 20-449, Christchurch
New Zealand

FREEPHONE **0800 942 006**

E-MAIL sales@donaghys.com

DONAGHYS
PERFORMANCE FIRST