

WINCHLINE PULL LINES AQUATEC YACHTMASTER XS SUPERSPEED SUPERBRAID WINCHLINE

TELECOMMUNICATIONS PRODUCT RANGE

DONAGHYS
PERFORMANCE FIRST

Sub Surface Telecommunications Hauling Products

Light ropes for Fibre Optic Cable installation into main ducts



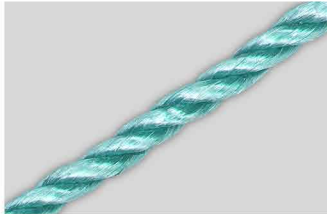
3mm PP Mono Braid Orange

Telstra item code: 675/00083

- Much stronger than PE Mono Substitutes
- Highly abrasion resistant
- Braided construction handles well
- Easily spliced
- App Break Force of 90 kg

Product code: BRS0324

Medium ropes for small / medium cables into main ducts @ 100mm I.D.



4mm PP Mega Rope Green

- 3 strand construction with 1000m continuous length
- Packaged on easy use flange reels
- App Break Force of 200kg

Product code: PRP0404



6mm PP Rope Blue/Yellow

Telstra item code for 400m: 675/00294

- 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

Product codes: ROS0614 (400m) and ROS0652 (500m)

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: LAS0111D



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: LAS0110D



Nylon Waxed Whipping Twine

Telstra item code: 675/00043

- Wax impregnated to bind, sew and protect for high strength whipping
- 470 tex

Product code: TWI2112



Polynet Bunch Heat Sealed Bags

Telstra item code: 438/00053

- 12cm PE Bag sealed at one end for wire separation at junctions
- 5000 per carton, red in colour

Product code: EPPB90X

Mechanical & Specialty Hauling Braids

Mechanical hauling braids for tailed Capstan Winches and specialty uses
i.e. helicopter deployment.



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

- 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 marine and industrial applications where reliability is key such as air sea rescue lines, slings, control ropes, head lines and ducting draw cords

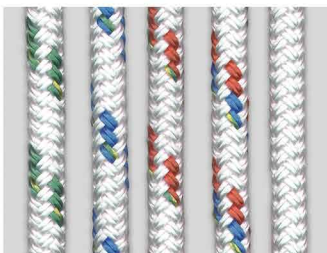


6mm Cablemaster Hauling Braid

Telstra item code: 675/301

- High strength, abrasion resistant with excellent handling
- Designed in conjunction with Telstra Operations
- Parallel polyester core with red intermediate jacket and white external cover
- Red jacket is visual wear alert that external jacket is damaged and rope retirement is required
- Min Break Force 1100 kg

Product code: BRY0681



Yachtmaster XS Double Braid

- Balanced and harmonised core of HT Polyester
- Easy to splice, flexible sheetline
- High jacket to core ratio assisting long life
- Available in 6mm to 16mm in 100m spools in white with colour fleck options
- Larger diameters and custom made lengths available upon request



Superspeed Hauling Braid

- Minimal stretch easy splice 16 plait HMPE core
- Super hard wearing HT polyester jacket
- Harmonised core/jacket construction minimises slippage and creep
- Available in 2mm to 12mm in 100m spools in a range of colour options
- Larger diameters and custom made lengths available upon request



Superbraid Hauling Braid

- HMPE core with HT Polyester cover provides high strength with minimum stretch and weight
- Anti-slip coating on core prevents core/cover slippage and protects core if cover is removed
- Withstands shock loadings and accepts a tighter radius and knots better than Aramids
- Available in 6mm to 30mm in 100m spools in a range of colour options



Winchline UHMwPE

- Single braid manufactured from UHMwPE, the world's strongest fibre for high strength to weight ratio
- High UV resistance, Low stretch
- High internal and external abrasion resistance with liquified polyester/urethane coating
- Floats and does not absorb water
- Suitable as a replacement for wire in running rigging applications
- Available in 3mm to 80mm diameter

Total Solution Components

Donaghys are proud to offer an in-house splicing service available on all our Rope & Cordage products, delivered to you in cardboard cartons or reeled onto timber cable drums.



Soft Eye Splice Applications

- Cable hauling winch lines where the rope bulk is restricted by the diameter of the Conduit.
- For fitting of clips and rings direct to rope.
- Hand holds.



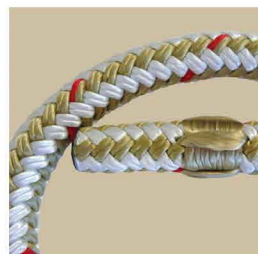
Foundry Hook

- This fitting is usually used in conjunction with a steel captive thimble in dragline applications (mining and heavy industry).



Wooden Reel / Timber Cable Drum

- Winch line delivered to customer in this form, allows for easy rewinding onto their winch drum.
- Also protects line against damage during transport.



End Whipping

- It is important that a whipping be put on any bare end of rope in order to prevent the unlaying and fraying of the strands.



Thimble Eye Splice

- 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.



Gusseted Tubed Thimble

- Heavy duty applications (similar to captive thimble).
- The gusset prevents the expansion or distortion of thimble under extreme load, but reduces the size (dia) of connecting fitting that can be used.



Captive Thimble Eye

- Captive thimble eye with welded "V".
- Heavy duty applications.
- Recommended for use with synthetic ropes to prevent the rope from jumping out of the thimbles under extreme tension.
- Allows unrestricted use of heavier connecting fittings e.g. shackles and rings.

Introducing new Cable Haul options



GRIPTECH

16 Strand Aramid Rope Grip

Quick, easy, secure cable eye attachment

USES:

- Cable Installation
- Cable maintenance
- Cable Towing
- Strain Relief
- Applicable to any cylindrical surface including wire and fibre rope
- Available in strengths 5 Tn to 200 Tn



SOFT SHACKLES

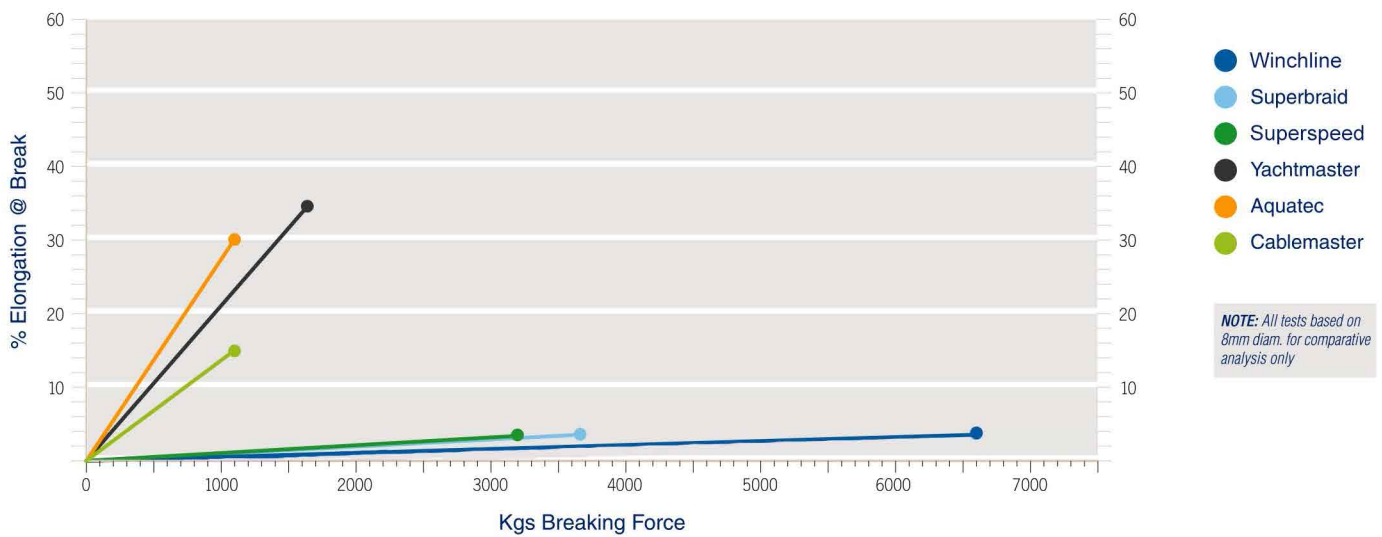
The perfect replacement for traditional metal snap shackles & screw shackles

- HMPE adjustable shackle
- Made to connect strops or slings to vehicles, blocks or sheets on a boat
- A versatile tool with many applications
- Available in strengths 1270 kg to 350 Tn

Fibre Characteristics

Fibre type	Description	Specific gravity	Sensitive to	Resistant to	Heat reaction	Strength & elongation
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 & organic solvents	Softens 100°C, Melts 110-120°C	High tenacity with good recovery after stretch and extension at break of 50%
Polypropylene	Continuous Filament	0.91	Sodium hypochlorite & 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%
Polyester	Continuous Filament	1.38	Alkalis, Phenolic Compounds, Sulfuric Acid	Most Organic & Mineral Acids, Organic Solvents, Bleaches & Oxidizing Agents	Softens 228°C. Melts 255°C	Equivalent wet/dry strength ratio. Elongation 35% at Break
Polyamide, (Nylon)	Continuous Filament	1.14	Strong Acids & Oxidizing agents, soluble in formic, Sulfuric Acids & Phenolic Compounds	Alkalis, Alcohols, esters, Hydrocarbons & most Bleaches	Nylon 6,6 Softens 229°C, melts 249-260°C	Elongation Dry 40%, Wet 35%. 90-95% strength ratio wet/dry
HMPE (Superspeed)	Continuous Filament	0.97 g/cm3	Strong oxidizing agents, Chlorosulfonic & Nitric acids at high temperatures	Most acids & alkalis, cold alcohols, ethers, esters, ketones & bleaches	Melts 147°C	Elongation 3.5% at Break
UHMwPE (Superbraid/Winchline)	Continuous Filament	0.97 g/cm3	Strong oxidizing 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

Elongation Graph



Determine best fit rope for use - Checklist

Tick the most appropriate rating of importance on each of the important variants pertaining to the ropes characteristics in the application planned (1 Most Important - 5 Least Important)

Key Project Criteria	Quantity / Detail	1	2	3	4	5
1. Describe use/application						
2. Project engineers SWL BF requirement						
3. Total weight of cable being hauled						
4. Rope diameter to allow length on winch drum						
5. Severity of abrasion expected						
6. Are thimbles/hooks/splices required?						
7. Do you require rope on drum or loose in carton?						
8. Total continuous length of rope required						
9. When can order be confirmed?						
10. Completed product deadline on site						

1. Cable Hauling Process



Gene®
Gene Engineering Pty. Ltd.
Recommends Donaghys Ropes
to Haul.

2. Truck Mounted Winch System



Gene®
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3. Freestanding Self Tailing Winch System



Photos 1, 2 & 3 courtesy of Gene Engineering

4. Extreme Access Helicopter deployment



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To order or for further information about these products please contact your local Donaghys Territory Manager or phone Donaghys customer services on the numbers below:

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