



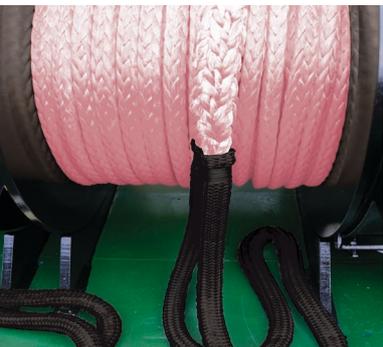
safety

**DONAGHYS**  
PERFORMANCE FIRST

# NEW GENERATION FIBRE ROPE

FOR HEAVY TOWING  
AND WINCHING

FOR SAFE  
WORKING LIVES



# WINCHLINE ROPE (UHMwPE)

DONAGHYS  
winchline

Made from high strength UHMwPE (Ultra High Molecular weight Polyethylene) fibres, Donaghys Winchline has a **very low elongation of 4% at break**, and a **tenacity of up to 15 times that of steel rope**.

Donaghys Winchline is also **eight times lighter and 70% stronger than steel wire rope**. Coated with Donaghys Armorcoat, this winchline rope braid has high abrasion resistance and can be customised with covers and fittings to suit specific applications.

Its very light density allows the rope to float and is very easy to handle in comparison to wire alternatives.

**Range available:** 1mm to 96mm. Sold by the metre.

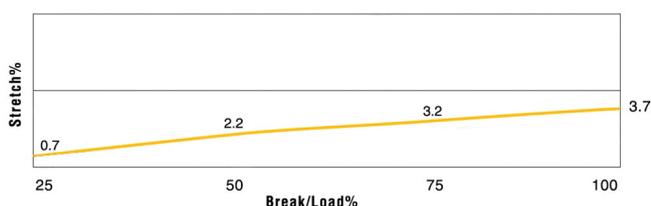
## Features:

- 8 x lighter and 70% stronger than steel wire rope
- Low stretch
- Unique pink colour for safety
- High UV resistance
- Floats and will not absorb water
- High internal and external abrasion resistance
- Virtually no recoil in the unlikely event of failure
- Non rotational
- Coated with Donaghys Armorcoat to reduce friction and abrasion
- High performance abrasion/heat resistant jackets available on request

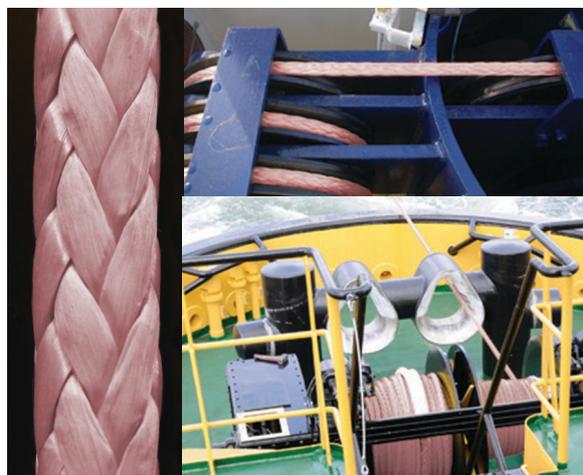
## Applications:

- Vehicle rescue or winchline
- Logging applications
- Towing line
- Pulling/stringing lines

## Stretch vs Break Load



As a steel wire replacement Donaghys winchline is lighter, safer and stronger - for mining applications, industries and marine.



# WINCHLINE ROPE (UHMwPE)

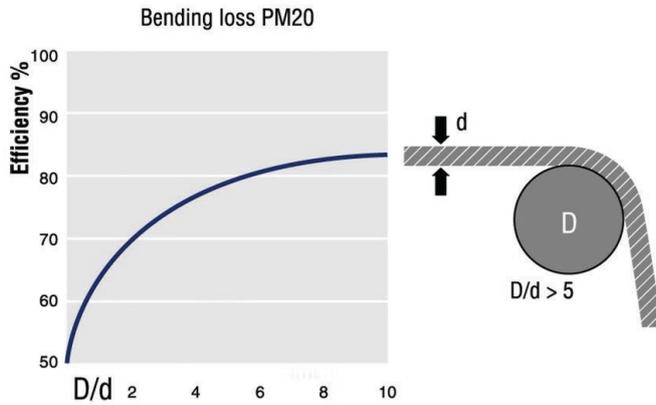
Winchline to Wire Rope Comparison



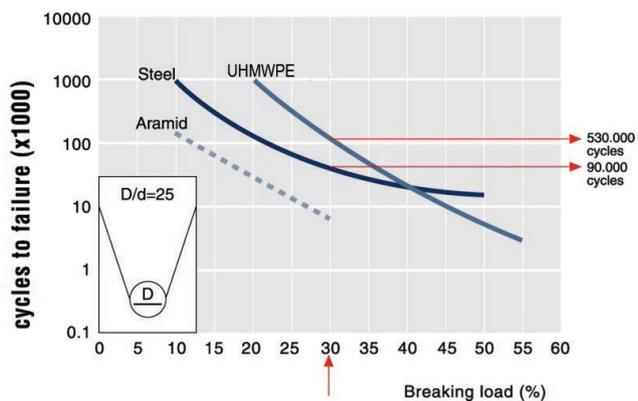
Product Code	Diameter (mm)	Break Force (Tonnes)	Max. Length app. Metres	Winchline Break Force (Tonnes)	Winchline Weight / 100m kgs	6x36 IWRC Wire Rope Grade: 1960 Break Force (tonnes)	6x36 IWRC Wire Rope Weight / 100m kgs
D4BRS09WAM	9	9.7	1025	9.7	4.0	5.8	33.2
D4BRS12WAM	12	17.5	3050	17.5	7.8	10.3	58.8
D4BRS14WAM	14	21.2	2250	21.2	10.5	14.0	80.2
D4BRS16WAM	16	26.0	1720	26.0	12.0	18.3	104.0
D4BRS18WAM	18	33.0	1360	33.0	17.0	23.0	132.0
D4BRS20WAM	20	38.8	1100	38.8	20.0	28.4	163.0
D4BRS22WAM	22	47.0	904	47.0	25.0	34.5	197.0
D4BRS24WAM	24	55.0	760	55.0	29.0	41.0	235.0
D4BRS26WAM	26	64.5	650	64.5	34.0	48.1	276.0
D4BRS32WAM	32	84.6	1189	84.6	52.0	72.9	418.0
D4BRS36WAM	36	106.0	939	106.0	60.0	92.2	531.0
D4BRS44WAM	44	157.0	629	157.0	81.0	138.0	793.0

**Note:** Other sizes available on request.

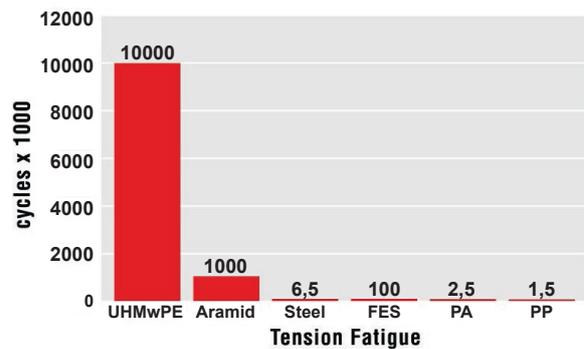
## Rope properties; static bending



## Bending fatigue



## Rope properties; tension fatigue



at 50% Minimum Breaking Load = Safe Working load

# MONGOOSE

## (HEAVY DUTY RECOVERY STROPS)

The Mongoose Heavy Duty Tow Strop is a 12 strand UHMwPE (Ultra High Molecular weight Polyethylene) tow rope designed for industrial, light vehicle and 4x4 vehicle recovery. The strop has an **ultra high strength to weight ratio** and is **lightweight and flexible** to **reduce injuries and assist on-site handling on your work site.**

### Lightweight and Flexible



MONGOOSE BY DONAGHYS

All Mongoose Stropps come fitted with a heavily protected 200mm soft eye splice in each end and feature a tight heavy duty HT Polyester cover.

### Heavy Duty HT Polyester Body & Eyes

**Range available:** Stropps are available by Break Force (tonnes).



- 30 to 350 tonne stropps supplied with fully machine braided cover to body and eyes
- 400 to 500 tonne stropps supplied with HD Fire Hose cover to body and eyes

### Mongoose Recovery Stropps

#### Features:

- Ultra high strength to weight ratio
- Lightweight and flexible to reduce risk of back injuries
- Low elongation
- Coloured pink for safety & easy identification as towing strop
- Minimal re-coil and kinetic energy at break
- Traceability (durable I/D tags)
- Reduced hand injuries (no fish hooking)
- Heavy duty tight HT polyester cover
- Highly resistant to wear and flex fatigue
- 200mm soft eye splice in each end
- Stropps to 500 tonne
- Certified to tonnage rating
- Marine grade round thimble available
- Colour coding by application, available on request

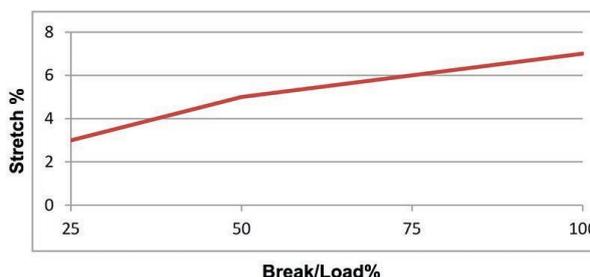
Product Code	Finished Diameter (mm)	Break Load (Tonnes)	Length (metres)	Weight of completed strop (kg)
D235BRY30T06	32	30	6	4.5
D235BRY30T10	32	30	10	7.0
D235BRY30T15	32	30	15	10.5
D235BRY30T20	32	30	20	14.0
D235BRY50T01	38	50	1	2.0
D235BRY50T03	38	50	3	4.0
D235BRY50T06	38	50	6	6.5
D235BRY50T10	38	50	10	10.0
D235BRY50T15	38	50	15	15.0
D235BRY50T20	38	50	20	20.5
D235BRY70T01	44	70	1	2.5
D235BRY70T03	44	70	3	4.5
D235BRY70T06	44	70	6	7.5
D235BRY70T10	44	70	10	13.0
D235BRY70T15	44	70	15	17.0
D235BRY70T20	44	70	20	28.0
D235BRY100T6	48	100	6	12.0
D235BRY100T10	48	100	10	15.5
D235BRY100T15	48	100	15	29.5
D235BRY100T20	48	100	20	34.0
D235BRY150T10	65	150	10	24.0
D235BRY150T20	65	150	20	47.0
D235BRY200T15	75	200	15	45.5
D235BRY300T15	82	300	15	65.0

**Note:** Other sizes and lengths made to order.

#### Applications:

- Light and heavy vehicle recovery
- 4x4 vehicle recovery

### Stretch vs Break Load



# MONGOOSE

(HEAVY DUTY RECOVERY STROPS)

## Gross Vehicle Weight (GVW)

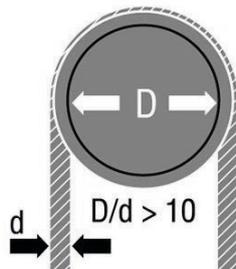
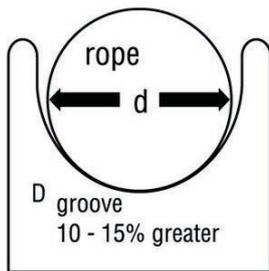
Mongoose Break Force (Tonnes)	DISTRESSED VEHICLES - GVW*			HILL OR GRADIENT TOWING - GVW*		
	Towing from general muddy, slippery conditions	Towing from Medium bogged position in mud	Towing from Heavy to Extreme entrenched position	6° Incline 1m Gradient over 10m distance (1:10)	11° Incline 1m Gradient over 6m distance (1:6)	18° Incline 1m Gradient over 4m distance (1:4)
30	60	30	20	120	64	41
50	100	50	35	201	106	68
70	140	70	50	281	148	95
100	200	100	70	401	212	135
150	300	150	100	602	318	203
200	400	200	140	803	424	271
250	500	250	170	1004	529	338
300	600	300	200	1204	635	406
350	700	350	245	1405	741	474
400	800	400	280	1606	847	541
450	900	450	315	1807	953	609
500	1000	500	350	2007	1059	676

\* The weight of a vehicle in tow based in Tonnes

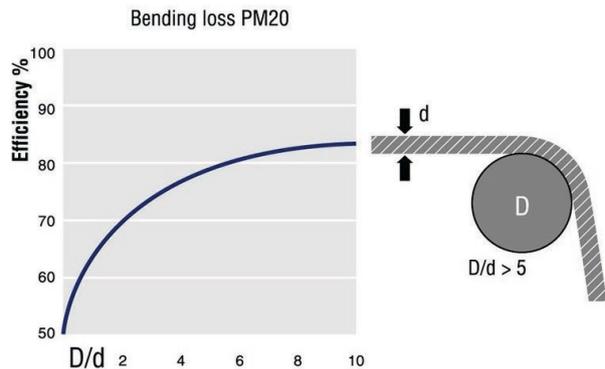
### Rope properties; bending fatigue

Sheaves should be smooth and clean (no rust)

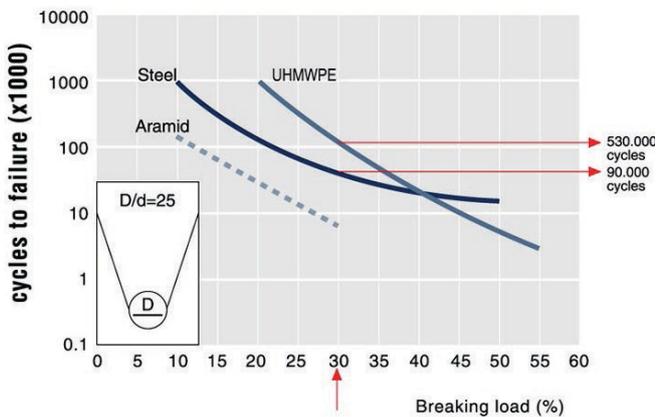
Groove material can play an important role in life



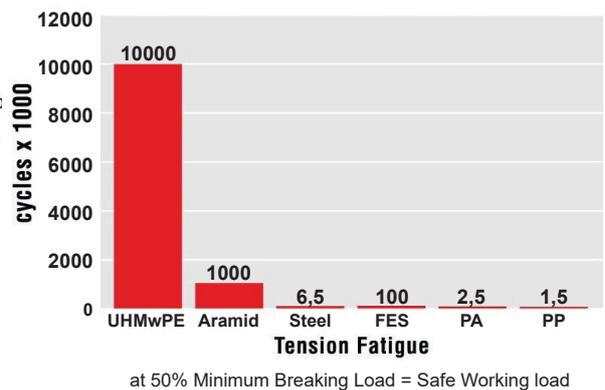
### Rope properties; static bending



### Bending fatigue



### Rope properties; tension fatigue





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Working Lives.

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