

Marlow[®]

DEFENCE



**PAST
PRESENT
FUTURE**

ISSUE 4



Marlow®

Marlow Ropes have earned an outstanding reputation for quality and technical innovation for our defence and special forces products. This reputation is born out of pioneering designs that have been tried and tested in the world's harshest environments and toughest combat zones.

Marlow are known and respected around the world for British design and quality excellence with offices in both the UK and US. Our facility in Hailsham, United Kingdom houses our R&D Centre and specialist production units and it is from here that we manufacture and distribute quality British made products to over 80 countries worldwide.

Marlow are innovators in the field of rope technology, continually striving to develop and utilise the latest fibres and manufacturing techniques.

We adhere to tough ISO quality standards with many of our products also meeting stringent CE, NFPA and ANSI compliance testing and NATO codification rules.

This catalogue features our standard defence products, but our R&D team can assist where bespoke products are required for specific projects or applications.

FAST ROPES

Marlow Ropes designed and developed the original Fast Ropes in conjunction with the British Special Forces. These ropes are now in use by traditional, special forces and SWAT teams in four corners of the globe. Make sure your Fast Ropes include the Marlow 'Black Marker' trademark.



In response to the needs of the special units, we now offer a selection of 3 termination options:

DYNALITE TERMINATION (DLT)

Significant weight savings over metal terminations. Eliminates risk of injury to personnel on the ground when ropes are released post deployment. No metal parts, eliminating the requirement for X-Ray of termination before re-use. In-house factory spliced. In use with several forces worldwide.



MULTIFIT TERMINATION (MFT)

Strong and durable. The versatile MFT has been designed to fit a wide range of helicopter cargo hooks and hoist systems. Features a 45mm machined eye allowing fast attachment. Standard conical fittings available on request. MFT available for 40mm only.



SPLICED EYE (SE)

Polyester protected factory spliced eye. Ideally suited for descent from towers in training situations. Easily hooked over support beams or scaffolding in training.



NEW FAST ROPE ACCESSORIES INCLUDING FAST ROPE RACK, FAST ROPE BAG, GLOVES & QRM SYSTEM ARE NOW AVAILABLE.

SEE MORE INFORMATION ON P14 & 15



The unique construction of the Marlow Fast Rope allows comfortable control throughout the descent and makes it easier to slow down and break. The suppleness of the material means that the rope is not hard on the hands as less force is required than with other ropes. Oil and general spillage do not affect the speed of descent as Marlow Fast Ropes absorb liquids.

• A firm version of the Fast Rope is also available, for improved abrasion resistance.

FAST ROPES STANDARD 40MM

STANDARD SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	DLT PART NUMBER	DLT NSN	SE PART NUMBER	MFT PART NUMBER	MFT NSN
40	12.2	TAS079	4020-99-895-4343	TAS010	TAS054	4020-99-277-6212
40	15.2	TAS086	4020-99-242-9307	TAS025	TAS055	4020-99-338-4843
40	18.3	TAS074	4020-99-743-0451	TAS011	TAS056	4020-99-297-6895
40	27.4	TAS071	4020-99-896-0900	TAS012	TAS057	4020-99-159-1677
40	36.6	TAS085	4020-99-134-8518	TAS013	TAS068	-

FAST ROPES STANDARD 40MM HW HEAVY WEIGHT

Heavy weight version of the standard fast rope. Weight inserts aid deployment from larger helicopters and maintain rope stability even with strong updraft and turbulence.

HW SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	DLT PART NUMBER	DLT NSN
40	12.2	-	-
40	15.2	-	-
40	18.3	TAS129	4020-99-816-7775
40	27.4	TAS139	4020-99-702-5793
40	36.6	-	-

FAST ROPES 32MM

The 32mm version is a thinner nominal diameter, specifically designed for Asian forces and already in use in several countries.

32mm SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	DLT PART NUMBER	SE PART NUMBER
32	12.2	TAS102	-
32	15.2	TAS153	TAS133
32	18.3	TAS120	TAS126
32	27.4	TAS119	TAS116
32	36.6	TAS115	TAS141

INSERTION & EXTRACTION

F.R.I.E.S (FAST ROPE INSERTION & EXTRACTION SYSTEM)

Marlow Ropes designed and developed the original multi use product for rapid deployment and retrieval, reducing the risk to helicopters and personnel. Each Marlow F.R.I.E.S can carry 6 fully equipped personnel with it's loop and lanyard system and can also be used as a regular Fast Rope. F.R.I.E.S. are available with the same termination options as the standard Fast Ropes (page 4).



F.R.I.E.S SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	DLT PART NUMBER	SE PART NUMBER	MFT PART NUMBER
40	12.2	TAS084	TAS029	TAS060
40	18.3	TAS091	TAS022	TAS062
40	27.4	TAS078	TAS032	TAS061
40	36.6	TAS103	TAS058	TAS069



**TRIED AND TESTED
IN THE WORLD'S
HARSHEST
ENVIRONMENTS
AND TOUGHEST
COMBAT ZONES.**

N SYSTEMS

S.P.I.E (SPECIAL PATROL INSERTION & EXTRACTION)

Marlow's extraction system has been designed for the transportation of a larger number of personnel with increased safety. Higher strength to accommodate greater number of personnel (10 to 12 as standard). Two loop integrated colour coded safety system for all personnel. One yellow loop for easy retrieval. Spliced eye termination.

S.P.I.E SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	SE PART NUMBER
28	27.4	TAU011
28	40	TAU014



S.P.I.E WPX

Marlow's floating extraction system allows easier retrieval from waterborne operations. Designed to carry 10 to 12 personnel. Two loop integrated colour coded safety system for all personnel. One yellow loop for easy retrieval. Hard wearing. The main rope has been designed for low shock loads. Spliced eye termination.

S.P.I.E WPX SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	SE PART NUMBER
30	18.3	TAU016
30	27.4	TAU015
30	40	TAU013



S.P.I.E DPX

Marlow's innovative system is a light-weight and super strong extraction rope ideal for waterborne operations. Designed to carry 10 to 12 personnel. Two loop integrated colour coded safety system for all personnel. One yellow loop for easy retrieval. High strength and lightweight. Good resistance to chemicals and UV. Floats, allowing significantly easier retrieval from waterborne operations. Spliced eye termination.

S.P.I.E DPX SPECIFICATIONS

DIAMETER (mm)	LENGTH (m)	SE PART NUMBER
20	27.4	TAU010
20	40	TAU012



TOWING, RECOVERY & WINCHING ROPES



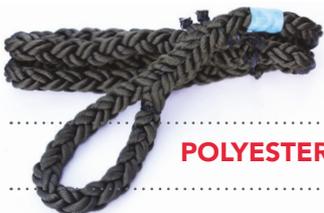
K.E.R.R (KINETIC ENERGY RECOVERY ROPE)

The K.E.R.R provides fast and effective recovery of armoured vehicles through the transfer of kinetic energy from the towing vehicle to the trapped vehicle. It allows quick and easy deployment for rapid recovery without the need for specialist vehicles.

Construction: 8 strand high grade UV stabilised Nylon (Polyamide).
Termination: 450mm protected soft eye splice each end.

SPECIFICATIONS

GROSS VEHICLE WEIGHT (TONNES)	DIAMETER (mm)	ASSEMBLY LENGTH (m)	ASSEMBLY WEIGHT (kg)	MIN BREAK LOAD (kg)	PART NUMBER	NSN
0.0-3.0	24	4.5	2.84	12,030	TBL001	-
0.0-3.0	24	8	4.26	12,030	TBL003	4020-99-375-3238
3.0-5.5	28	10	7.28	15,800	WJA013	-
5.5-7.0	32	12.2	11.34	20,000	WJA002	4020-99-831-9499
7.0-8.0	36	12.2	14.4	24,800	WJA003	-
8.0-12.0	40	13.7	19.8	30,000	WJA004	4020-99-832-0800
12.0-15.5	48	13.7	28.4	42,000	WJA005	4020-21-902-3218
15.5-18.5	52	13.7	33.2	48,800	WJA006	-
18.5-22.0	56	13.7	38.6	56,000	WJA007	-
22.0-24.0	60	13.7	46.6	63,800	WJA008	4020-01-218-4488
24.0-31.0	64	15	50.4	72,000	WJA009	4020-21-902-1677
31.0-44.0	68	19	65	79,500	WJA010	-
44.0-55.0	72	21	89.32	90,000	WJA011	-
55.0-65.0	80	21	110.32	110,000	WJA012	4020-01-210-2154



POLYESTER TOW ROPES

Strong, lightweight and flexible with excellent UV resistance, Marlow's Polyester Tow Ropes are ideally suited for small to medium sized armoured vehicles. Colours available; white and olive drab.

Construction: 8 strand high tenacity Polyester.
Termination: 250mm protected soft eye splice each end.

SPECIFICATIONS

GROSS VEHICLE WEIGHT (TONNES)	DIAMETER (mm)	ASSEMBLY LENGTH (m)	ASSEMBLY WEIGHT(kg)	MIN BREAK LOAD (kg)	PART NUMBER	NSN
N/A	28	4	4.46	16,000	WHA041	-
0.0-5.5	32	2.5	3.89	20,900	WJG000	4020-99-820-5399
0.0-5.5	32	4	6.22	20,900	WHA040	2540-99-823-2577
N/A	40	8	10	34,500	WHA075	-



Light weight and strong, HMPE tow ropes have been designed specifically for medium weight, front line armoured vehicles. Safer than wire, these tow ropes can be quickly and easily deployed in critical situations by a single person.

Construction: 12 strand Dyneema® core with 24 plait Dyneema® cover.
Termination: 250mm soft eye splice each end.

HMPE TOW ROPES

SPECIFICATIONS

GROSS VEHICLE WEIGHT (TONNES)	DIAMETER (mm)	ASSEMBLY LENGTH (m)	ASSEMBLY WEIGHT(kg)	MIN BREAK LOAD (kg)	PART NUMBER	NSN
0.0-20.0	50	4.8	7.8	40000	599-0610	4020-99-599-0610
0.0-20.0	30	4.8	3.4	40000	-	-



DYNALINE & DYNALINE MAX

Marlow's Dynaline and Dynaline Max are designed to replace steel wire winch ropes on armoured vehicles and 4x4's. Dynaline and Dynaline Max enable significantly quicker and safer deployment and recovery than traditional steel wire ropes.

Construction: HMPE or SK99 (Dynaline MAX) 12 strand Dyneema® with ArmourCoat.
Termination: Tubular thimble splice one end with safety hook, drum termination other end.

DYNALINE SPECIFICATIONS

DIAMETER (mm)	WEIGHT (g/m)	MIN BREAK LOAD (kg) SK75
6	16.0	2,880
8	30.9	5,830
9	38.0	7,030
10	48.6	8,770
11	57.1	10,800
12	66.4	12,300

DYNALINE MAX SPECIFICATIONS

DIAMETER (mm)	WEIGHT (g/m)	MIN BREAK LOAD (kg) SK78	MIN BREAK LOAD (kg) SK99
7	35.6	6,980	8,220
9	54.0	10,000	11,500
11	75.5	14,100	16,100
12	90.0	16,700	19,200
13	107	19,700	22,600



DEFENDER

Specifically designed for the use in the harshest working environment of the commercial and military recovery sectors.

Construction: SK78 or SK99 12 strand Dyneema® core with SK78 16 or 32 strand protective Dyneema® cover thus maintaining optimum strength.
Termination: Factory terminated with choice of thimbles or hooks.

DEFENDER SPECIFICATIONS

DIAMETER (mm)	WEIGHT (g/m)	MIN BREAK LOAD (kg) SK78	MIN BREAK LOAD (kg) SK99
7	30.8	4,250	5,010
8	48.4	6,980	8,220
9	57.3	8,730	10,300
10	71.1	10,000	11,500
12	88.6	11,700	13,400
14	109.6	14,100	16,100
15	124.1	16,700	19,200
16	141.1	19,700	22,600
18	185.2	24,600	28,200
20	235.5	30,600	35,100

RECOVERLINE

Marlow Recoverline has a unique outer braid that provides protection from abrasion, UV and other sources of external damage. This cover is designed to provide excellent abrasion resistance and to protect the core, however if it becomes damaged then the contrasting coloured core becomes visible resulting in a clear retirement point before there is any significant strength loss.

Construction: SK78 or SK99 12 strand Dyneema® core with SK78 16 strand protective Dyneema® cover thus maintaining optimum strength.
Termination: Factory terminated with choice of thimbles or hooks.



RECOVERLINE SPECIFICATIONS

DIAMETER (mm)	WEIGHT (g/m)	MIN BREAK LOAD (kg) SK78	MIN BREAK LOAD (kg) SK99
10	57.5	6,980	8,220
12	90.0	10,000	11,500
14	124	14,100	16,100

ACCESSORIES



ABSEIL GLOVE

Manufactured from water resistant leather with goat skin reinforcement to palm and thumb.

SPECIFICATIONS

COLOUR	SIZE
BLACK	MEDIUM (9)
BLACK	LARGE (10)



KEVLAR® FAST ROPING GLOVES

Manufactured from reinforced leather with wool lining and Velcro wrist adjustment. Kevlar® lined palms provide further wear and heat resistance when fast roping.

SPECIFICATIONS

COLOUR	SIZE	NSN
BLACK	MEDIUM (9)	8415-99-833-0147
BLACK	LARGE (10)	-
BLACK	X LARGE (11)	-



COBRA PLUS RAPPELLING / FAST ROPING GLOVE

Kevlar® lined with a suede/leather palm and thumb for additional grip and protection, the Cobra Plus also has an unlined trigger finger for easy weapons handling.

SPECIFICATIONS

COLOUR	SIZE	NSN
BLACK	MEDIUM (9)	8415-99-225-7767
BLACK	LARGE (10)	8415-99-928-3318
BLACK	X LARGE (11)	8415-99-447-0271

FAST ROPE STORAGE BAG



Marlow's rope storage bag will keep your fast ropes clean, dry and UV protected. Suitable for Fast Ropes from 12.2 metres (40 Feet) to 27.4 metres (90 Feet) with a twin zipper for easy access.



SPECIFICATIONS

DIMENSIONS (cm)	MATERIAL	CAPACITY (m)	COLOUR
100 X 40 X 30	1000 DENIER PVC MESH, NYLON WEBBING	12.2 -27.4	BLACK
112 X 40 X 30	1000 DENIER PVC MESH, NYLON WEBBING	36.6	BLACK



FAST ROPE BACK PACK

Manufactured with back pack straps and padded back section for easy solo carrying. The bag has strong handles for manoeuvring and compression straps to secure the internal load and position weight. When deployed an internal clip attaches the bag to the end of the rope. Available in standard 600 denier and premium 1000 denier material.

SPECIFICATIONS

CAPACITY (m)	COLOUR
12.2 & 18.3	BLACK
27.4 & 36.6	BLACK



ABSEIL LEG BAG

Available in three sizes to accommodate 100m, 61m or 30m of 11mm rope, the simple design allows for easy rope stowage and kink free deployment, making rapid descent as trouble free as possible. Available in standard 600 denier and premium 1000 denier material.

SPECIFICATIONS

CAPACITY (m)	DIAMETER (mm)	HEIGHT (mm)	COLOUR
100	220	600	BLACK
61	222	360	BLACK
30	150	360	BLACK



ABSEIL ROPE BAG



This rope bag has been designed for use with abseil and intervention ropes between 9-12mm in diameter

SPECIFICATIONS

MAXIMUM CAPACITY (m)	COLOUR
61	BLACK



FAST ROPE QRM QUICK RELEASE MECHANISM

Designed for the release of fast ropes in case of emergency. Three types of slots as standard for helicopter winch to suit all hook types. Wide passage to use all types of fast ropes. Push button release system fitted with safety pin. It can also be used with metal terminations.

SPECIFICATIONS

WEIGHT (kg)	MATERIAL	CE STANDARD
1.6	ALUMINIUM ALLOY	795/B



FRR (FAST ROPE RACK)

Marlow's Fast Rope Descender can be used in conjunction with Marlow's 40mm fast rope to aid the rapid insertion of units. This innovative device is easy to install and ideal when descending with heavy equipment and/or untrained personnel. Supplied in Marlow Tactical storage bag and available with adjustable lanyards and an optional quick release.



USED IN APPLICATION WITH 40MM FAST ROPE

SPECIFICATIONS

WEIGHT (kg)	SHELF LIFE (years)	MATERIAL	WORKING LOAD LIMIT (kg)	DIMENSIONS (m)
1.8	10	STAINLESS STEEL WITH HARD WEARING BLACK OXIDE FINISH	250	33 X 10.5 X 4.5

DEALER STAMP

Marlow®



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