

Marlow [®] DATASHEET

FAST ROPE

Designed & manufactured in the UK | Yarn sourced and originated in the EU

Innovators in the field of rope technology. Marlow Ropes Ltd designed and developed the original Fast Rope in conjunction with the British Special Forces. These ropes are now in use by traditional Special Forces and SWAT teams across the globe. Make sure your Fast Ropes include the Marlow 'Black Marker' trademark.

The unique construction of this rope allows comfortable control throughout descent and makes it easier to slow down and brake. 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 liquid.

Fast Ropes are designed to allow up to 3 personnel at a time including personal equipment (150kg each) to quickly and safely descend from a hovering aircraft. The technique uses friction breaking with the hands and feet.

Options include the standard 40mm diameter as well as a smaller 32mm diameter. Additionally the Marlow HF is a firmer option which has the same 40mm nominal diameter as our standard Fast Rope and shares many of the same benefits. The firmer construction of the HF allows greater durability when feet are used to help control the rate of descent, ensuring that this technique does not significantly reduce rope life. The Marlow HW is a weighted option of the standard Fast Rope that maintains rope stability in instances of strong turbulence or updraft.



40MM SPECIFICATIONS

MATERIAL:	Staple nylon 6 melt spun olive drab.
CONSTRUCTION	4 pairs of strands formed into 8 strand plait
ROPE DIAMETER	40mm (nominal) (1 5/8" (nominal)
MINIMUM BREAK LOAD (SPliced EYE AND MULTIFIT):	7,600 kgs (16,720 lbs)
MINIMUM BREAKLOAD (DLT)	5,100 kgs (11,200 lbs)
AVERAGE BREAK LOAD (ROPE):	11,000 kgs (24,200 lbs)
WEIGHT:	94kg / 100m (63 lbs / 100ft) measured at zero tension
SHELF LIFE:	10 years
SERVICE LIFE:	10 years
MAXIMUM LIFE FROM DATE OF MANUFACTURE:	10 years

FAST ROPES STANDARD 40MM STANDARD SPECIFICATIONS

DIAMETER		LENGTH		DLT PART NUMBER	DLT NSN	SE PART NUMBER	MFT PART NUMBER	MFT NSN
mm	inches	m	ft					
40	1.58	12.2	40	TAS079	4020-99-895-4343	TAS010	TAS054	4020-99-277-6212
40	1.58	15.2	50	TAS086	4020-99-242-9307	TAS025	TAS055	4020-99-338-4843
40	1.58	18.3	60	TAS074	4020-99-743-0451	TAS011	TAS056	4020-99-297-6895
40	1.58	27.4	90	TAS071	4020-99-896-0900	TAS012	TAS057	4020-99-159-1677
40	1.58	36.6	120	TAS085	4020-99-134-8518	TAS013	TAS068	-

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

MATERIAL:

CONSTRUCTION

ROPE DIAMETER

MINIMUM BREAK LOAD (SPliced EYE):

MINIMUM BREAKLOAD (DLT)

AVERAGE BREAK LOAD (ROPE):

WEIGHT:

SHELF LIFE:

SERVICE LIFE:

MAXIMUM LIFE FROM DATE OF MANUFACTURE:

Spun staple nylon in olive drab.

4 pairs of strands formed into 8 strand plait

32mm (nominal) (1 2/5" nominal)

4,800 kgs (10,560 lbs)

3,220 kgs (7,098 lbs)

7,380 kgs (16,236 lbs)

59kg / 100m (40 lbs / 100ft) measured at zero tension

10 years

10 years

10 years

DIAMETER		LENGTH		DLT PART NUMBER	SE PART NUMBER
mm	inches	m	ft		
32	1.25	12.2	40.0	-	-
32	1.25	15.2	49.9	TAS153	TAS133
32	1.25	18.3	60.0	TAS120	TAS126
32	1.25	27.4	89.9	TAS119	TAS116
32	1.25	36.6	120.0	TAS115	TAS141

*Please note:
All strengths quoted are for main rope and do not include the terminations

HEAVYWEIGHT FAST ROPES 40MM

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

HW SPECIFICATIONS

MATERIAL:

CONSTRUCTION

ROPE DIAMETER

MINIMUM BREAK LOAD (SPliced EYE AND MULTIFIT):

MINIMUM BREAKLOAD (DLT)

AVERAGE BREAK LOAD (ROPE):

WEIGHT:

SHELF LIFE:

SERVICE LIFE:

Staple nylon 6 melt spun olive drab.

4 pairs of strands formed into 8 strand plait (with beaded lead in central strand)

40mm (nominal) (1 5/8" nominal)

7,600 kgs (16,720 lbs)

5,100 kgs (11,200 lbs)

11,000 kgs (24,200 lbs)

146kg / 100m when measured at zero tension

10 years

10 years

DIAMETER		LENGTH		DLT PART NUMBER	DLT NSN
mm	inches	m	ft		
40	1.58	12.2	40.0	-	-
40	1.58	15.2	49.9	-	-
40	1.58	18.3	60.0	TAS129	4020-99-816-7775
40	1.58	27.4	89.9	TAS139	4020-99-702-5793
40	1.58	36.6	120.0	-	-

ROPE TERMINATIONS

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

SPliced EYE (SE)



DYNALITE TERMINATION (DLT)



MULTIFIT TERMINATION (MFT)



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