

Marlow[®] DATASHEET

DIABLO - STATIC ROPE FOR EXTREME USE

Marlow Diablo is a high quality, UKCA and CE Type A certified rope with a special heat resistant cover. Designed for military, police and emergency services, Diablo is essential for all rope access professionals who require a low stretch kernmantle type rope with added resistance to extreme environments and hard use.

When exposed to direct heat (for example from a blow torch or close proximity to halogen lamps), Diablo's survival time at temperatures exceeding 300°C, is 5 times that of regular static ropes. In instances of heat exposure up to 300°C, Diablo continues to maintain load bearing properties in excess of 10kN even after 15 minutes, whereas regular static ropes will catastrophically fail after 45 seconds.

MATERIAL

CORE:	High tenacity Polyamide (Nylon)
COVER:	Blend of heat resistant para-aramid and high tenacity polyamide
CORE TYPE:	Multiple twisted cores
COVER TYPE:	24 plait braided
CERTIFICATION:	EN 1891 Type A

CONSTRUCTION

CORES MANUFACTURED FROM HIGH TENACITY NYLON:	Light weight High strength High energy absorption Good resistance to most chemicals and UV
PARA-ARAMID BLENDED COVER YARNS:	Thick and durable cover for excellent abrasion resistance Excellent heat resistance, Para-aramid decomposes at over 500°C Thick para-aramid blended cover offers much improved insulation buffer zone between heat source and cores Improved cut resistance (by factor of 2) over standard ropes, thanks to the para-aramid element of the cover By blending the aramid with nylon the temperature of the rope is stabilised at approximately 220°C by the latent heat of fusion. Single cover is easily inspected for damage
TWISTED FIBRE COVER CONSTRUCTION:	Excellent abrasion resistance Aids handling and works well with ascenders and descenders
SOLID BLACK OPTION:	Diablo is available in black for military and police applications.
HIGH VISIBILITY OPTION:	Diablo is available with high visibility fibre incorporated in the cover for emergency applications
UV:	Performance of Diablo to EN 1891 is not adversely affected by exposure to UV

TERMINATIONS

TERMINATION OPTIONS:

Marlow Diablo ropes can be terminated with a figure of eight knot or by sewn eyes. CE approved, factory sewn eyes using Marlow's computer controlled sewing machinery are available on request. Each eye is individually serial

PERFORMANCE

PROPERTY	11MM (DIABLO)
Rope Classification Type (A or B)	A
Diameter (mm)	11
Sheath Slippage (%)	0
50 - 150 kg Elongation (%)	3.4
Shrinkage (%)	3.5
Mass Core (g/m)	38.4
Mass Cover (g/m)	44.1
Mass Rope (g/m)	82.5
Minimum Static Strength ex. terminations (kN)	22
Average Static Strength ex. terminations (kN)	35.5
Minimum Static Strength with terminations (kN)	15
Average Static Strength with sewn eye (kN)	29.2
Average Static Strength with fig. 8 loop (kN)	18.3
Peak Force (kN). Fig 8 loop	5.6
Fall Factor 1 falls. Fig. 8 loop	6

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