

EN: Warning! Working at height, rock climbing, mountaineering and related activities are inherently dangerous. It is the responsibility of any person using this equipment to learn and practice the proper techniques for use of the equipment for its designated purposes safely and to foresee and take appropriate action in situations where rescue may be required. Even the correct use of equipment and techniques may result in fatal consequences. Medical conditions can affect the safety of the equipment user in normal and emergency use. Any person using this equipment assumes all risks and full responsibility for all damages or injury which may result from the use of it. It is impossible to cover all methods of use. The following instructions and pictograms show some of the common correct and incorrect methods of use; it is impossible to predict them all. There is no substitute for instruction by a trained and competent person.

User Instructions

IMPORTANT: Please read and understand this information before use, and retain this information for future reference. If the system is sold or passed on to another user, the User Instructions must accompany the equipment. If the system is transferred to another country, it is the responsibility of the seller/ previous user to ensure that User Instructions are in the correct language for that country.

General Information:

1. These instructions cover the use of DMM Sewn Terminated Low Stretch Ropes, conforming to EN1891 Type A:1998. If in doubt please contact your supplier or DMM.
2. This product may be used in conjunction with any appropriate item of Personal Protective Equipment (PPE) relevant to European Union Directive 89/686/EEC. It may be acceptable for use in other applications, please consult your supplier.
3. Immediately before use, visually/functionally inspect to ensure that this product is in a serviceable condition and operates correctly. This inspection should be recorded on the inspection form supplied. We recommend a thorough inspection at least once every 6 months by a competent person (this may be the manufacturer).
4. **Personal Issue:** this product may be issued for personal use, and may be used either separately or as part of a system.
5. Lives depend on your equipment. The user should be aware of its history (use, storage, inspection etc.). If this equipment is not for personal use (e.g. used in mountaineering centres), we strongly recommend a systematic approach to record keeping. This should always be carried out by a competent person.
6. **WARNING:** if you are in any doubt about the safe condition of this product, replace it immediately.
7. **WARNING:** If the product has been used to arrest a fall it should immediately be withdrawn from use, destroyed and replaced.
8. Ensure that the instructions for other components used in conjunction with this product are complied with. It is the user's responsibility to ensure that he/she understands the correct and safe use of this product.
9. This product is designed for use in normal climatic conditions (-30°C - +50°C). Wet and icy conditions can reduce the strength of this product. It may be suitable for other conditions, please consult your supplier.
10. No responsibility will be accepted by DMM for damage, injury or death resulting from misuse. If in doubt contact your supplier or DMM.
11. No special transportation precautions are necessary; however, avoid all contact with chemical reagents or other corrosive substances.
12. Care must be taken to avoid loading this product over edges and other obstructions. Check the anticipated orientation during loading before use.
13. **anchors.**
- 13.1 The anchorage point of the fall arrest system should be above the position of the user and conform to EN795:2012 and have a minimum strength of 12kN.
- 13.2 Positioning of the anchorage point is crucial for safe fall arrest and this must take into account the anticipated fall distance including rope stretch, the deployment of the shock absorption system (where used) and the length of the connector so that obstructions (such as the ground) may be safely avoided.
- 13.3 **Mountaineering:** the user is advised that the security of any rock, snow or ice (or any combination of these) anchorage point (belay) natural or unnatural cannot be guaranteed as safe and therefore good judgment by the user is a necessity in order to obtain adequate protection.
15. **EN795(b):2012**
Users exposed to the risk of a fall should use an energy absorber to EN355:2002 to limit forces applied to the body to acceptable levels.

16. Maintenance and Servicing

This product must not be marked, modified or repaired by the user unless authorised by DMM.

Note: This product is not user maintainable with the exception of the following:

- 16.1 **Disinfection:** disinfect using a disinfectant containing quaternary ammonium compounds reinforced with chlorohexidine (e.g. Savlon) in sufficient quantities to be effective. Soak the product for 1 hour at dilutions recommended for general use using clean water as per (16.2) not exceeding 25°C then rinse thoroughly as per (16.2).
- 16.2 **Cleaning:** if soiled rinse in clean warm water of domestic supply quality (maximum temperature 25°C) . Wipe with a damp cloth and dry naturally in a warm ventilated room away from direct heat. Important: Cleaning is recommended after every use in a marine environment.
- 16.3 **Storage:** after any necessary cleaning store unpacked in a cool, dry, dark place in a chemically neutral environment away from excessive heat or heat sources, high humidity, sharp edges, corrosives or other possible causes of damage. Do not store wet.

17. Lifespan and Obsolescence.

17.1 Lifespan: this is the maximum life of the product, subject to detailed conditions, that the Manufacturer recommends that the product should remain in service.

Maximum Lifespan: Textile & Plastic Products – 10 years from date of manufacture. Metal Products – no time limit.

Note: This may be as little as one use, or even earlier if damaged (e.g. in transit or storage) prior to first use. For the product to remain in service it must pass a visual and tactile inspection when considering the following criteria: fall arrest, general wear, chemical contamination, corrosion, mechanical malfunction/ deformation, cracks, loose rivets, loose strands of wire, frayed and/or bent wire, heat contamination (over normal climatic conditions), cut stitching, frayed tape, degradation of tape and/or thread, loose threads in tape, prolonged exposure to U.V., clear and readable marking (e.g. marking, batch reference, individual serial numbers etc).

Where such products are permanently attached to other products in a system, please refer to the manufacturer recommendations of the complete system.

17.2 Obsolescence: a product may become obsolete before the end of its lifespan. Reasons for this may include changes in applicable standards, regulations, legislation, development of new techniques, incompatibility with other equipment etc.

18. European Union Type Examination: EU type examination for this product is carried out by Notified Body No. 0120: S.G.S. (UK) Ltd., Worle Parkway, Weston- Super-Mare, Somerset, BS22 6WA, U.K.

19. Explanation of Markings:

DMM - Name of manufacturer.

Worksafe/ Worksafe Plus Ø xxmm - Name of rope and diameter

xxkN - Minimum breaking strength

5m – Length of Rope

0120CE - CE mark (notified body number and CE mark).

EN 1891 A:1998 - Standard to which product conforms.

YRDAYXXXX# - Year/Day of manufacture and individual serial number.



Book Pictogram - reminder that the end user should read & understand these instructions, and those supplied with other items of PPE which may be used in conjunction with this item.

Guarantee: DMM guarantees this product for 3 years against any defects in materials or manufacture. The guarantee does not cover this product for normal wear through usage, incorrect storage, poor maintenance, accidental damage, negligence, any modifications or alterations, corrosion, or for any usage for which the product was not designed.

Product:	Serial number:	Product Name:	Date of first Use:	Due date of next examination	Name & Signature of Competent Person	Defects noted	Reason for entry	Date
	Year of Manufacture:							



DMM
Sewn Terminated Low
Stretch Polyamide
Ropes

EN 1891 A:1998

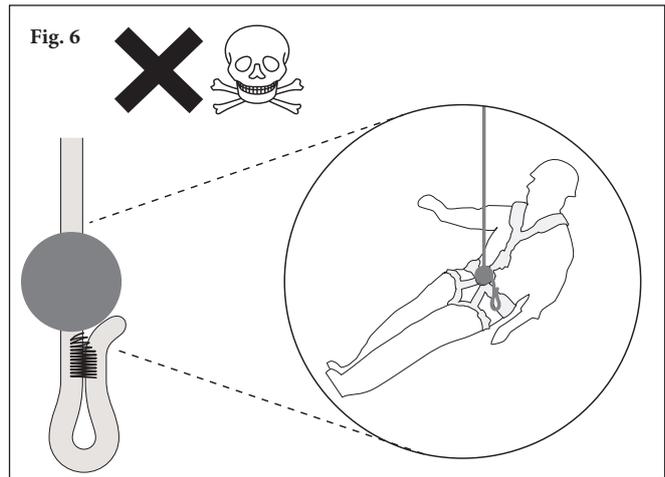
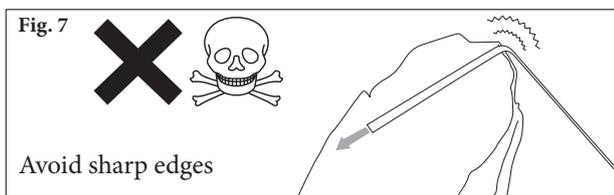
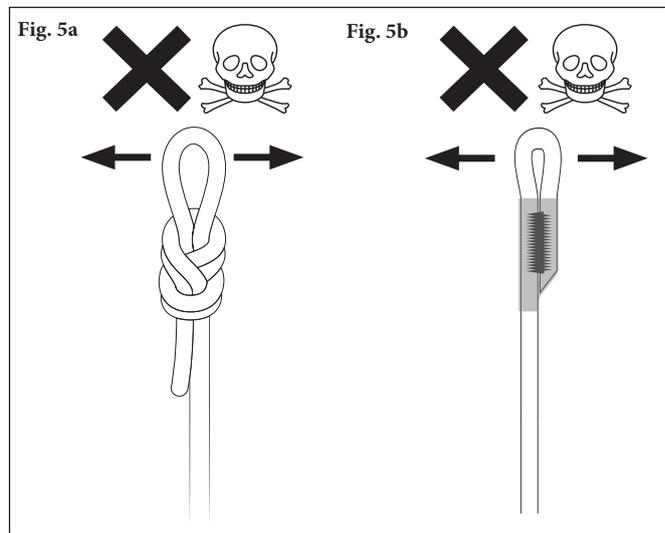
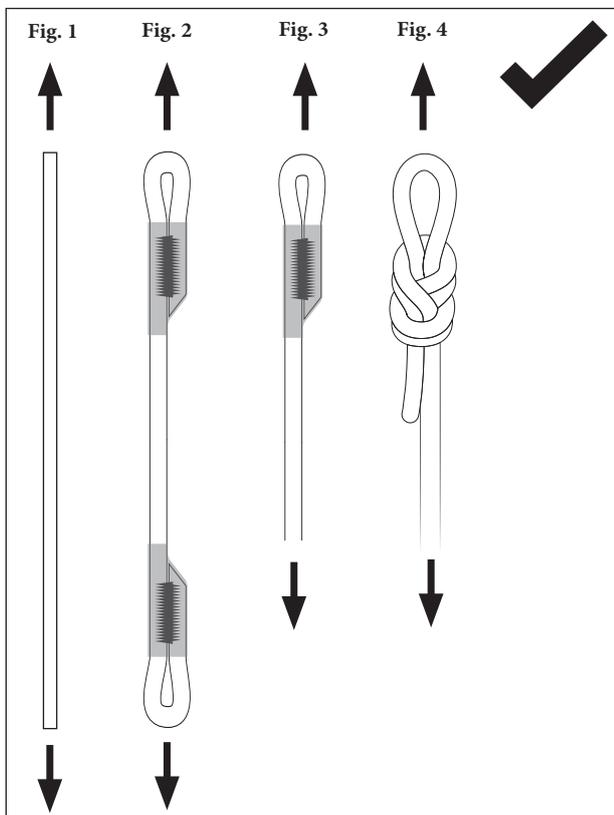
LLANBERIS, GWYNEDD,
UNITED KINGDOM,
LL55 4EL.

Tel: +44 (0) 1286 872 222
Fax: +44 (0) 1286 872 090
e-mail: post@dmmwales.com
web: www.dmmwales.com

0120CE



F511/QA/01/Mar.2016



	Worksafe	Worksafe Plus	Worksafe Plus	Worksafe Plus	
Diameter	11	10	10.5	11	mm
Elongation in use (50 -150kg)	< 5	< 5	< 5	< 5	%
Shrinkage	< 6	< 6.5	< 6.5	< 6.5	%
Weight Total	75	66	72	75	g/m
Weight Sheath	35	37	37	35	%
Weight Core	65	63	63	65	%
Breaking Load					
Fig. 1	> 32	> 30	> 31	> 32	kN
Fig. 2 & 3	> 24	> 24	> 24	> 24	
Fig. 4	> 18	> 16	> 18	> 18	
Sheath slippage	< 40	< 40	< 40	< 40	mm

USE
Please bear in mind that new, unused ropes may have a very smooth and even slippery surface. When using them in combination with devices, be sure to observe the respective manufacturer's information for the device.
IMPORTANT! High friction of the rope on a metal part (e.g. in excessively fast abseiling procedures) or of the rope on a rope or other textile material may cause overheating, damage to, and even rupturing of the rope.
If you wish to make the end connections yourself, we recommend the use of figure of eight knots. A sufficiently long rope end (10cm min.) must remain beyond the knot.
Low stretch ropes are NOT to be used for free climbing, mountaineering or in caving (different standards apply such as EN 892 "dynamic mountaineering ropes").
The low stretch kernmantel rope should not be allowed to sag between the user and the reliable anchoring point.
The breaking load of ropes / ropes with terminations is specified for tension applied in the ropes' longitudinal direction. Therefore, never subject end loops, for example, to transverse loads (2 karabiners in one loop) (Fig. 5a & b). Check which load in the selected configuration acts on the rope and make sure that you do not overload it. We recommend a safety factor ≥ 7 .
Knots in the rope reduce the breaking load.
Do not use ropes whose previous usage history is unknown to you.
Adjustment devices on descender devices must be adjusted to the diameter of the rope.
Metal components must not include any burrs or sharp edges that might cause damage to the rope.
After every use, check the rope for possible damage. Inspect the rope visually from all sides.
Feel along a seemingly intact rope (tactile check) in order to detect any hidden core damage that might have been caused by frequent bending or local overloading. If there is visible damage to the sheathing, the rope must not be used under any circumstances. If the rope shows swellings, discolouring or other unusual changes, we recommend withdrawing the rope.
Check the rope end sewing for worn or torn sewing thread.
After every use, the equipment should be checked for abrasion and cuts.