



**HOWARD MATERIAL  
HANDLING LTD**

# **CATALOGUE**

Synthetic Ropes

**LIFT IT  
LOAD IT  
TIE IT &  
TENSION IT**

## **POLYPROPYLENE LAID ROPE**

Thin tapes of polypropylene which are then twisted in to yarn, then in to strands and finally in to rope. Polyprop is an inexpensive all purpose rope.

### Advantages/Characteristics

- Made from Polypropylene
- Good abrasion resistance.
- Impervious to water, petroleum products, dilute acids and alkalais.
- Value for money (price relative to high strength and light weight).
- Polypropylene laid rope is treated with UV inhibitor to improve its UV resistance.

### Uses

- Many general purposes
- Ideal for towing and temporary mooring ropes because it floats.
- Because of the low cost, polypropylene products are sometimes used for anchor warps.

However, although normally satisfactory, this practise may be hazardous because of the ropes floating characteristic. It is recommended sinking ropes be used for anchor warps.

### Sizes and Breaking Loads

<b>Dia (mm)</b>	<b>Breaking Load (kg)</b>
3	160
4	280
5	390
6	550
7	740
8	960
10	1425
12	2030
14	2790
16	3500
20	5370
24	7600

Larger sizes are available on request

## **NYLON ROPES**

Nylon is the strongest of the man made fibres in common use. It has excellent shock absorption, is not affected by wide variations in temperature, and is very elastic, stretching up to 46% before breaking. Due to its high stretch, however, it is prone to internal stretch abrasion (which is caused as the fibres scissor over one another as the rope extends and contracts) with hard use. Nylon is 1.14 times more dense than water and therefore sinks.

Nylon makes an excellent anchor warp and light towing rope. It has other applications where a high strength shock resistant rope is required. Nylon rope has a shiny white appearance and when new, an oily feel.

### Advantages/Characteristics

- High elasticity - stretches up to 46% before breaking.
- Medium abrasion and U.V resistance. (Slightly less resistance than polyester.)
- Excellent shock absorption.
- Sinks in water.
- Strongest of all conventional synthetic ropes.

### Uses

- Light and heavy tow ropes (possible because of excellent shock absorption).
- Anchor and mooring ropes (because of high elasticity)
- Usually identified with a Red or Green marker thread

### Sizes and Breaking Loads

<b>Dia (mm)</b>	<b>Breaking Load (kg)</b>
6	750
8	1350
10	2080
12	3000
14	4100
16	5300
20	8300
24	12000

Larger sizes are available on request

## **POLYESTER LAID ROPE**

Polyester rope is generally considered to be the best all purpose rope as it has a high resistance to abrasion and at normal working loads very little stretch. When new it has a dull white colour and it is 1.38 times more dense than water and therefore sinks. Polyester is ideal for lifting gear and for all other ropes where minimum stretch and a good resistance to abrasion are required. Construction Manufactured with a 3 strand hawser laid construction.

### Advantages/Characteristics

- Low stretch.
- High strength and high breakload.
- Very high UV and abrasion resistance (superior to nylon)
- Resistant to most chemicals - both acidic and alkaline.
- Non-floating.
- Usually identified with a Blue marker thread

### Uses

- General purposes.
- Heavy towing.
- Running rigging-yachting sheets and halyards.
- Anchor warps and mooring lines.

### Sizes and Breaking Loads

<b>Dia (mm)</b>	<b>Breaking Load (kg)</b>
3	160
4	280
5	390
6	550
7	740
8	960
10	1425
12	2030
14	2790
16	3500
20	5370
24	7600

Larger sizes are available on request

## MANILA ROPES

Manila is a dried natural fibre therefore environmentally friendly. It has high strength (stronger than sisal) for a natural fibre and low elongation (20% stretch at breaking point, lower than all man made fibres). A 3-ply medium lay twist construction is used. Manila is easily handled and spliced and sinks in water.

Nominal Size - Dia (mm)	Min. Breaking Load (kg)	Length (mm)
6	260	All sizes of Manila rope are sold in cut lengths or coils of 220 metres
8	480	
10	630	
12	950	
14	1280	
16	1800	
18	2160	
20	2870	
24	4050	
26	4680	
28	5410	
32	6930	
36	8630	
40	10430	
48	14450	

**Other ranges of fibre rope:**

## OTHER RANGES OF FIBRE ROPE



5 Series



6 Series



Sash Cord



HJ Series



Dock Linet



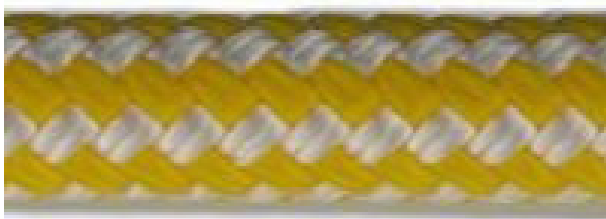
Luff Cord



Classic double braid



Traditional double braid



Lite Line



Advantage



Premier



Xtreme Performance



Dynex



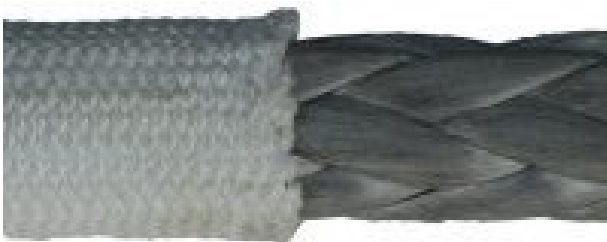
V Series



D Series



Softline



Dyneema Sleeve



Technora Sleeve

