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# TIMM MASTER 12 SBA F 110 [77MM] 220M

Product group: **327** Product number: **411223**

## Product information

This product supersedes product no: **L412049**

Timm Master 12 SBA is a mixed polymer rope solution, using the same material composition as our most-selling premium Timm Master 8 combined with Timm Snapback Arrestor for improved safety when mooring. Our Timm Master ropes are supplying some of the world's largest shipping companies. This is a flexible and easily handled product made from polyolefin yarn and high tenacity polyester, with 18% elongation at break.

When a mooring rope breaks, the snap back of the rope can cause dangerous situations. In the worst cases, snap back of a mooring rope can hurt the crew onboard or people standing on land. Timm have developed a state-of-the-art snapback arrestor which reduces the snapback if a rope breaks. It works by having an elongating core, and will delay the snapback forces if the main rope breaks. The snapback arrestor is optimized to the rope diameter and strength, to mitigate the severe risk of snapback.

The anti-twisting colors of the mooring rope will help the crew to determine if the rope is twisting, which might be negative for the strength and lifetime of the rope. Timm Master 12 SBA has very good abrasion resistance, having high tenacity polyester in the outer parts of the strands. The product is buoyant with excellent UV resistance. Having one of the best strength-to-weight ratios on the market, this rope will serve as a light-weight and reliable solution, suitable for all vessel types.

### Features

- 12 strand plaited construction
- Anti-twisting colors
- Integrated Snap Back Arrestor
- Buoyant
- Low-torque
- UV stabilised

### Benefits

- Reducing snap back if main rope breaks
- Class leading strength-to-weight ratio
- Preventing twisting of ropes
- High abrasion resistance
- Type Approved by DNV GL
- Meets all OCIMF requirements

## Specification

General

<b>Invent Hazard Material (IMO/EU) classification</b>	NA
<b>Material</b>	75% Polyolefin & 25% HT Polyester
<b>Material type and grade</b>	Mxed polyolefins (B5 yarn) and HT PES

Physical properties

<b>Colour</b>	Blue and white anti-twisting colors
<b>Construction</b>	12 strand braided
<b>Density</b>	0.99
<b>Density [kg/m<sup>3</sup>]</b>	0.99
<b>Elongation [%]</b>	18% at break
<b>Eyes</b>	1,8mm mesh braid protected eyes
<b>Jacketed</b>	false
<b>Line Construction</b>	12x1 braided
<b>Line Linear Density (LLD)</b>	3.174 kg/m
<b>Line Tenacity (LT) Maximum</b>	38.41 t/kg/m
<b>Line Tenacity (LT) Maximum (kN/m)</b>	0.38 kN/m
<b>Line Tenacity (LT) Measured</b>	37.72 t/kg/m
<b>Load Bearing Linear Density (LBLD)</b>	3,085 kg/m
<b>Melting point</b>	165°C
<b>NSBF (if requested)</b>	Not requested
<b>Rotating</b>	false
<b>Splice type and design</b>	TM12 2G

Dimensions/Weight

<b>Diameter [mm]</b>	77
<b>Length</b>	220
<b>Length [m]</b>	220

Technical data

<b>Angled Break Force (ABF) % Avg NSBF D/d = 10</b>	192.22 (96.10)
<b>Angled Break Force (ABF) % Avg NSBF D/d = 5</b>	195.17 (97.58)
<b>Angled Endurance (AE) % Avg NSBF D/d = 10</b>	68.07
<b>Angled Endurance (AE) % Avg NSBF D/d = 5</b>	79.81
<b>Average Immediate Strain (e) %LDBF:10</b>	1.06
<b>Average Immediate Strain (e) %LDBF:20</b>	2.37
<b>Average Immediate Strain (e) %LDBF:30</b>	3.55
<b>Average Immediate Strain (e) %LDBF:40</b>	4.66
<b>Average Immediate Strain (e) %LDBF:50</b>	5.72
<b>Axial Compression Resistance (ACR)</b>	102.5% Avg NSBF
<b>LDBF [kN] (from)</b>	1029
<b>LDBF [kN] (up to)</b>	1142
<b>LDBF [t] (from)</b>	104.8
<b>LDBF [t] (up to)</b>	116.4
<b>Line Design Break Force (LDBF)</b>	116.4
<b>Temperature (T) % BF at 20°C -20C</b>	107.6/109/115
<b>Temperature (T) % BF at 20°C 0C</b>	108.5/109/105
<b>Temperature (T) % BF at 20°C 20C</b>	100/100/100
<b>Temperature (T) % BF at 20°C 40C</b>	89.3/98/95
<b>Temperature (T) % BF at 20°C 60C</b>	77.5/92/90
<b>Temperature (T) % BF at 20°C 80C</b>	55/88/82
<b>Unspliced MBL [t]</b>	129.3

Performance data

<b>DNVGL</b>	Y
<b>SBA</b>	Y
<b>Strength adjustment</b>	10%
<b>Var Range From</b>	100%
<b>Var Range To</b>	105%

## Approvals

Snapback arrestor is a Verified Product by DNV GL.

Timm Master 12 is Type Approved by DNV GL. This product is produced according to ISO 9554 and tested according to ISO 2307. Minimum Breaking Load (MBL) is according to ISO 10556 and verified by DNV GL.

Manufactured acc. to => ISO 9554, ISO 10556

Tested acc. to => ISO 2307, CI 1500A, DNVGL-CP-0100

Type Approval No => TAK0000094

## Documents

[Wilhelmsen Use and Care Timm Master 12 SBA](#)

[SDoC411223](#)

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