

# ACERA AMUNDSEN 48MM 190M PLATINUM 2X1,8M SUPEREYE

Product group: **322**    Product number: **410608**

Acera Amundsen is a 12 strand high performance rope made from the genuine Acera HMPE yarns, with the unique super eye in both ends with mesh and hollow braided protection.



## Product information

Acera Amundsen is a DNV GL type approved 12-strand high performance rope made from genuine Acera HMPE yarns, which is individually coated through a rotating 360° Lick-roller process. This cumbersome single yarn coating process demonstrates the uncompromising commitment to the quality standards of Acera. Single yarn coating is proven to significantly enhance internal and external abrasion resistance, and extend service life and strength. 12 strand ropes are regarded as the best rope construction, and has become the most common construction for HMPE ropes.

Acera Amundsen is the alternative to the cumbersome steel wire ropes. It is stronger and safer, with significantly less snap-back. The corresponding weight is therefore 7 times lower. When replacing conventional fiber ropes, the reduction in diameter leads to significant savings in weight (60%), space and handling. This reduces the total time required for mooring operations and fuel consumption.

## Features

- 12 strand plaited HMPE rope
- Buoyant
- Single yarn coating
- 7 times lighter than steel and 60% lighter than conventional fiber rope
- Excellent UV resistance
- Excellent eye protection with y-connection

## Benefits

- Easy to handle
- Easy to splice
- Easy to inspect
- High abrasion resistance
- No rotation under load
- High construction stability
- Increased rope service lifetime
- Low elongation and 0% water absorption

## Specification

### General

<b>Invent Hazard Material (IMO/EU) classification</b>	NA
<b>Material type and grade</b>	Acera H16 (HMPE)

### Physical properties

<b>Colour</b>	Platinum grey
<b>Construction</b>	12 strand plaited
<b>Density [kg/m<sup>3</sup>]</b>	0.97 (floating)
<b>Elongation [%]</b>	2-3% at break
<b>Eyes</b>	Supereye
<b>Jacketed</b>	false
<b>Line Construction</b>	12x1 braided
<b>Line Linear Density (LLD)</b>	1.091 kg/m
<b>Line Tenacity (LT) Maximum</b>	162.9 t/kg/m
<b>Line Tenacity (LT) Maximum (kN/g/m)</b>	1.68 kN/g/m
<b>Line Tenacity (LT) Measured</b>	149.4 t/kg/m
<b>Load Bearing Linear Density (LBLD)</b>	1.091 kg/m

<b>Melting point</b>	145°C - 150°C
<b>NSBF (if requested)</b>	Not requested
<b>Rotating</b>	false
<b>Splice type and design</b>	Tension (12S/Z)x1

### Dimensions/Weight

<b>Diameter [mm]</b>	48
<b>Length [m]</b>	190

### Technical data

<b>Angled Break Force (ABF) % Avg NSBF D/d = 10</b>	199.18 (99.59)
<b>Angled Break Force (ABF) % Avg NSBF D/d = 5</b>	184.68 (92.34)
<b>Angled Endurance (AE) % Avg NSBF D/d = 10</b>	97.52
<b>Angled Endurance (AE) % Avg NSBF D/d = 5</b>	93.52
<b>Average Immediate Strain (e) %LDBF:10</b>	0.20
<b>Average Immediate Strain (e) %LDBF:20</b>	0.42
<b>Average Immediate Strain (e) %LDBF:30</b>	0.62
<b>Average Immediate Strain (e) %LDBF:40</b>	0.82
<b>Average Immediate Strain (e) %LDBF:50</b>	1.01
<b>Axial Compression Resistance (ACR)</b>	111.47% Avg NSBF
<b>Line Design Break Force (LDBF)</b>	163.1
<b>Oil content in fiber</b>	<0.1%
<b>Spliced MBL/LDBF [kN]</b>	1530
<b>Temperature (T) % BF at 20°C 0C</b>	110
<b>Temperature (T) % BF at 20°C 20C</b>	100
<b>Temperature (T) % BF at 20°C -20C</b>	111
<b>Temperature (T) % BF at 20°C 40C</b>	94
<b>Temperature (T) % BF at 20°C 60C</b>	86
<b>Temperature (T) % BF at 20°C 80C</b>	57
<b>Unspliced MBL [kN]</b>	1700
<b>Unspliced MBL [t]</b>	180.9
<b>Water absorption [%]</b>	0%

### Performance data

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

## Approvals

Type Approved Product by DNV GL. This product is produced according to ISO 9554:2010 and tested according to ISO 2307:2010. Minimum Breaking Load (MBL) is according to ISO 10325:2009 and verified by DNV GL.

Manufactured acc. to => ISO 9554, ISO 10325  
 Tested acc. to => ISO 2307, CI 1500A, DNVGL-CP-0100  
 Type Approval No => TAK0000097

## Documents

[Acera Amundsen - Use and Care Manual](#)

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