ACERA Eye-and-Eye Slings

High Performance slings – up to mbl 728 ton

Slings made from High Modulus Polyethylene (HMPE) have set new standards for lifting gear. The Acera™ slings are made from Acera™ Amundsen 12 strand ropes or Acera™ daGama.

Acera™ Amundsen and Acera™ daGama are high performance ropes made from genuine Acera™ HMPE yarns, which are individually coated through a rotating 360° Kiss-roller process.
Single yarn coating is proven to significantly enhance internal and external abrasion resistance, and extend service life and strength. The sling eyes have Protech™ cover. A proprietary braided protection made from Acera™ yarn. The splices are protected by a weaved polyester Y-cover.
All Acera™ slings are produced in accordance with own technical file based on ISO 18264:2016 standard. The eyes are hand-spliced with our own positive locking tuck variant, ensuring anti-slip under all circumstances. Acera™ slings are the alternative to cumbersome steel wires. They are stronger and safer. The corresponding weight is more than 7 times lower. Compared to conventional fiber ropes, the resulting reduction in diameter leads to significant savings in weight (60%), space and handling. Acera™ slings provide a safer and more productive lifting operation. The light weight, ultra strong Acera™ slings are available at a market competitive price and can be customised to suit numerous applications.

SUITABLE

- **Lifting**
- **Mooring**
- **Offshore**
- **Towing**

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PRODUCT FEATURES

Construction	12-strand plaited core
Fiber	Acera™ HMPE
Specific gravity	HMPE cover 0,97 (floating)
Colours	Platinum
UV resistance	Excellent
Abbrasion resistance	Excellent
Acid resistance	Excellent
Alkali resitance	Excellent
Most chemicals resistance	Excellent
Cold & frost resistance	Excellent
Water resistance	Excellent (0% absorption)
Heat resistance	Low (145-150 melting)
Elongation	Low (2-3% at break)
Oil content in fiber	>0,1%
Cold & frost resistance	Excellent
Chemical resistance	Excellent

KEY BENEFITS

- Less risk to the crew
- Less injuries
- 1/7 of weight steel wire ropes.
- Easier handling
- Faster operation
- Less personnel needed
- Higher lifting capacity
- Less back injuries
- No contact damage
- No fraying or sharp edges
- Superior bending flex fatigue
- Easy to inspect and repair

CERTIFICATE

TYPE APPROVED PRODUCT DNV DNV.COM/AF

by Wilhelmsen WORKS CERTIFICATE

diameter (mm)	MBL spliced (t)	MBL spliced (kN)	Work Load Limit (WLL) vertical and choker hitches SAFETY FACTOR 7:1 (vertical t)	Work Load Limit (WLL) vertical and choker hitches SAFETY FACTOR 7:1 (vertical kN)
6	3.7	36	0.52	5.14
8	6.3	62	0.90	8.86
10	9.7	95	1.38	13.57
12	13.8	135	1.97	19.29
14	18.4	180	2.62	25.71
16	23.5	230	3.35	32.86
18	29.1	285	4.15	40.71
20	34.7	340	4.95	48.57
22	41.3	405	5.90	57.86
24	47.9	470	6.85	67.14
26	55.1	540	7.87	77.14
28	62.7	615	8.96	87.86
30	71.4	700	10.20	100
32	79.5	780	11.36	111.43
34	88.7	870	12.67	124.29
36	98.4	965	14.06	137.86
38	108.1	1060	15.44	151.43
40	117.8	1155	16.83	165
44	140.2	1375	20.03	196.43
48	163.2	1600	23.31	228.57
52	187.6	1840	26.80	262.86
56	213.6	2095	30.52	299.29
60	241.7	2370	34.52	338.57
64	270.7	2655	38.68	379.29
68	301.3	2955	43.05	422.14
72	333.4	3270	47.64	467.14
76	367.1	3600	52.44	514.29
80	401.8	3940	57.40	562.86
84	438	4295	62.57	613.57
88	475.2	4660	67.88	665.71
92	514.3	5044	73.48	720.57
96	554.2	5435	79.17	776.43
100	596	5845	85.15	835
102	617.1	6052	88.16	864.57
104	638.9	6265	91.27	895
108	682.7	6695	97.53	956.43
112	728.1	7140	104.01	1020

Nominal diameter as per definition in ISO 1968. Minimum strength defined as MBF/ MBL (Minimum Breaking Force, minimum breakload) of spliced application, and measured in kilogram force/kp, tested according to ISO 2307 and verified by DNV GL. Work Load Limits (WLL) is measured in metric tons and kilonewtons based on a safety factor 7:1, as defined by the Machinery Directive 2006/42/EC.