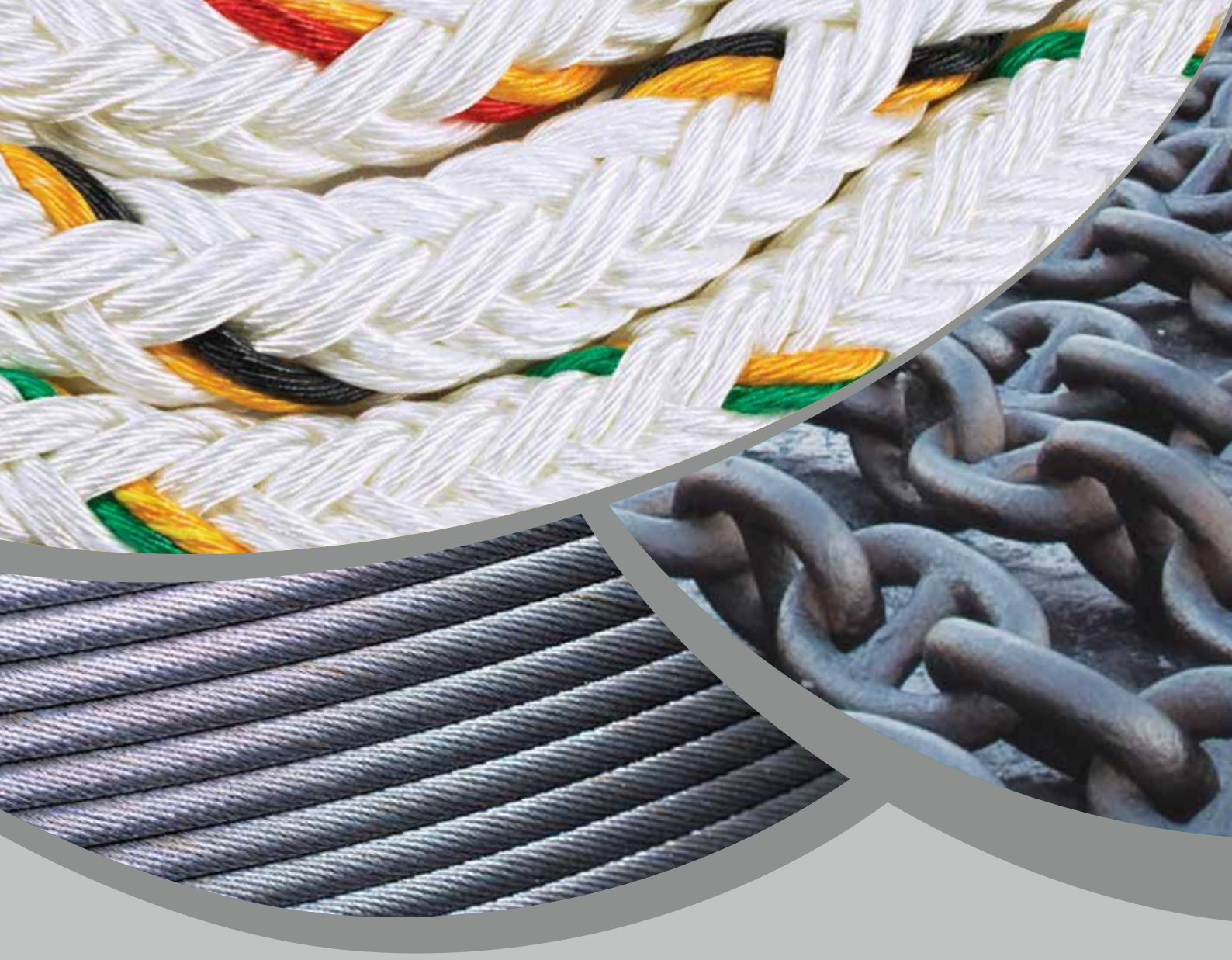


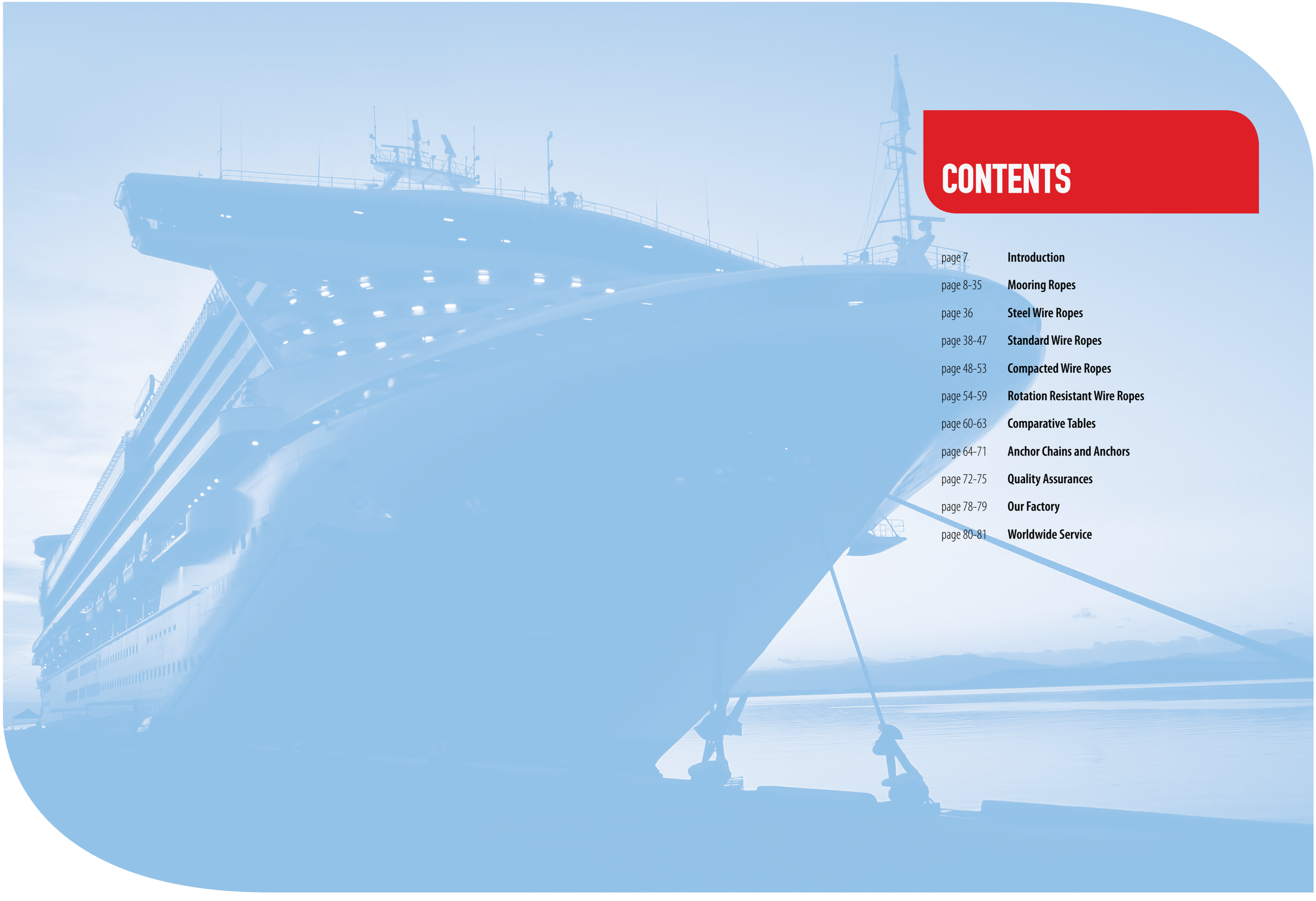
KATRADIS

EST. 1936

KATRADIS GROUP OF COMPANIES

MOORING ROPES
STEEL WIRE ROPES
ANCHORS & ANCHOR CHAINS

QUALITY PRODUCTS / PASSION FOR PERFECTION



CONTENTS

KATRADIS
EST. 1936
KATRADIS GROUP OF COMPANIES

KATRADIS GROUP OF COMPANIES
80 years strong relation**ships**!

Katradis Group of Companies has a long and distinguished history which goes back to the first half of the twentieth century. The company was established in 1936 by Konstantinos Katradis, operating back then as a ship supplier specializing in high quality mooring ropes.

Currently in the hands of third generation member of the Katradis family, the company has since then become a pioneer in the field of manufacture of mooring ropes and sacrificial anodes for corrosion protection, serving the marine industry as well as the sectors of offshore, aquaculture, fishing and yachting.

Over the years we have developed extensive expertise in the design and development of **synthetic mooring ropes**, which are our mainline products.

Our rope factory in Greece, whose site covers an area of 30000m^2, is one of the most technologically advanced factories in Europe, manufacturing top quality ropes such as the Siri® **High Performance Ropes** (UHMWPE , ARAMID and LCP) and other high quality synthetic ropes.

We also supply a wide range of **steel wire ropes** for shipping, fishing and industrial purposes. Our steel wire ropes comply with the requirements set by ABS, API (American Petroleum Institute), DNV·GL and Lloyd's Register.

Responding to a more recent customer demand, our company has proceeded in the manufacture of zinc and aluminum anodes such as Hull anodes, Tank anodes & Pit guard anodes, all of which are made in our highly specialized factory.

Furthermore, the Katradis group boasts a large stock of deck equipment such as **anchors, stud link anchor chain cables**, container fittings, alloy steel chain slings, lifting slings and lashing webbings as well as port development equipment such as fenders, buoys, floating marinas, bollards and oil booms.

MOORING ROPES

Over the years, the Katradis Group has developed expertise in the design and development of synthetic mooring ropes, a field in which it continues to innovate.

The company produces and supplies worldwide, among other products, high performance Single & Double braided synthetic ropes, UHMWPE (Ultra High Molecular Weight Polyethylene), Aramid and LCP (Liquid Crystal Polymer) rope constructions, as per the latest regulations and recommendations of OCIMF for the safe mooring of tanker, LNG & LPG vessels.

High quality ropes are manufactured in Greece at the company's own rope factory, which has an area of 30,000m^2 and is one of the most technologically advanced factories in Europe.

1 NIKA-Cord® 8 Strand

NIKA-Cord® 8 Strand Ropes are constructed using double twisted yarns of NIKA-steel® fibers. The NIKA-Steel® fibers are a special melt mixture of high quality European raw materials (Polypropylene, High Density Polyethylene, UV stabilizer and other improving elements).

NIKA-Steel® fibers are produced with a unique recipe (material percentages – stretching ratios – stretching temperatures) and they exhibit much higher tenacity and abrasion resistance than most conventional monofilament and flat Polypropylene and Polyolefin fibers.

The combination of the powerful NIKA-Steel® fibers and the elaborate double twisting process make the NIKA-Cord® ropes an excellent choice. Additionally, the double twisting process offer improved performance in dynamic and shock loading conditions while maximizing the resistance against internal and external abrasion.

NIKA-Cord® ropes have proved over the years an excellent choice in applications that require floating properties, ease of handling, high breaking strength and extended service life. This unique rope construction make the NIKA-Cord® ropes the most reliable Polyolefin rope in the market. NIKA-Cord® ropes are UV stabilized (160 KLY – suitable for Florida-USA & Dubai-UAE sunshine conditions)

NIKA-Cord® ropes are constructed according to ISO 10572 and they comply with the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - MESSENGER LINES - TOW LINES - MOORING TAILS

Specific gravity: 0,91 (Floating)
Melting point: 165 °C
Elongation at breaking: 18%
Chemical resistance to ALKALI: GOOD
Chemical resistance to ORGANIC SOLVENT: EXCELLENT
Chemical resistance to ACID: EXCELLENT. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	58	128	23,0
5"	40	72	158	27,9
5 ½"	44	88	194	33,3
6"	48	104	229	39,2
6 ½"	52	122	268	45,7
7"	56	142	312	52,4
7 ½"	60	163	359	59,4
8"	64	185	407	67,0
8 ½"	68	210	462	75,3
9"	72	234	515	83,6
9 ½"	76	262	576	92,5
10"	80	290	638	101,5
10 ½"	84	320	704	111,4
11"	88	351	772	121,3
12"	96	416	915	142,7

2 NIKA-Force 8 Strand

NIKA-Force 8-Strand Ropes are constructed using the well-known NIKA-Steel® fibers. The NIKA-Steel® fibers are a special melt mixture of high quality European raw materials (Polypropylene, High Density Polyethylene, UV stabilizer and other improving elements).

NIKA-Steel® fibers are produced with a unique recipe (materials' mixing ratios – stretching ratios – stretching temperatures) and they exhibit much higher tenacity and abrasion resistance than most conventional monofilament and flat Polypropylene and Polyolefin fibers.

Katradis Marine Ropes SA technical staff combined the best raw materials and through a carefully designed & efficient production process managed to present a reliable alternative to NIKA-Cord® ropes. NIKA-Force ropes exhibit high breaking strengths and very good resistance to abrasion (due to the highly abrasion resistant Nika-Steel® yarns).

NIKA-Force ropes are UV stabilized (160KLY – suitable for Florida-USA & DUBAI-UAE sunshine conditions). NIKA-Force ropes are constructed according to ISO 10572 and they comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - MESSENGER LINES - TOW LINES - MOORING TAILS

Specific gravity: 0,91 (Floating)
Melting point: 165 °C
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: GOOD
Chemical resistance to ORGANIC SOLVENT: EXCELLENT
Chemical resistance to ACID: EXCELLENT. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½	36	58	128	24
5	40	72	158	29
5 ½	44	88	194	36
6	48	104	229	42
6 ½	52	122	268	48
7	56	142	312	55
7 ½	60	163	359	62
8	64	185	407	71
8 ½	68	210	462	81
9	72	234	515	90
9 ½	76	262	576	100
10	80	290	638	109
10 ½	84	320	704	118
11	88	351	772	128
12	96	416	915	151

4 Improved Mixed NIKA-Steel® 8 Strand

Improved Mixed NIKA-Steel® 8-Strand (4x2) ropes are constructed using specially twisted yarns of NIKA-Steel® fibers with High Tenacity Polyester fibers (in a 60% - 40% w/w combination respectively) in the outer layers of the strand. Each strand is composed of mixed NIKA-Steel® / HT Polyester yarns in the outer layers and NIKA-Steel® yarns in the core layer. Their mechanically balanced structure, accordant to EN ISO 10556, protects the strands' outer layers against abrasion while achieving high breaking strengths.

Improved Mixed NIKA-Steel® ropes' layout is ideal for applications requiring floating properties and resistance to abrasion without compromising the axial strength. They have very good resistance to sunlight & chemicals, good resistance to cyclic loading and their efficiency remains the same both in wet and dry conditions. Best-selling Improved Mixed NIKA-Steel® is definitely an excellent multi-purpose rope.

Improved Mixed NIKA-Steel® ropes are produced according to international standards such as EN ISO 10556. They are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 0,99 (Floating)

Average Polyester w/w percentage: 25%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: VERY GOOD
Chemical resistance to ORGANIC SOLVENT: VERY GOOD
Chemical resistance to ACID: EXCELLENT. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	66.5	146	26.5
5"	40	79	174	33
5 ½"	44	96	211	39
6"	48	115	253	46
6 ½"	52	136	299	52
7"	56	156	342	61
7 ½"	60	180	396	67
8"	64	208	458	78
8 ½"	68	234	515	86
9"	72	260	572	96
9 ½"	76	290	638	108
10"	80	321	706	120
10 ½"	84	352	774	129
11"	88	383	842	137
12"	96	464	1.020	161

5 Improved Mixed NIKA-Steel® 12-24 Strand

Improved Mixed NIKA-Steel® 12-24 Strand ropes are constructed using specially twisted yarns of NIKA-Steel® fibers with High Tenacity Polyester fibers (in a 60% - 40% w/w combination respectively) in the outer layers of the strand. Each strand is composed of mixed NIKA-Steel® / HT Polyester yarns in the outer layers and NIKA-Steel® yarns in the core layer. Their mechanically balanced structure, accordant to EN ISO 10556, protects the strands' outer layers against abrasion while achieving high breaking strengths.

Improved Mixed NIKA-Steel® ropes' layout is ideal for applications requiring floating properties and resistance to abrasion without compromising the axial strength. They have very good resistance to sunlight & chemicals, good resistance to cyclic loading and their efficiency remains the same both in wet and dry conditions. Best-selling Improved Mixed NIKA-Steel® is definitely an excellent multi-purpose rope.

Improved Mixed NIKA-Steel® ropes are produced according to international standards such as EN ISO 10556. They are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 0,99 (Floating)

Average Polyester w/w percentage: 25%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	66,5	146	28
5"	40	79	174	34
5 ½"	44	96	211	40
6"	48	115	253	47
6 ½"	52	136	299	53
7"	56	156	342	62
7 ½"	60	180	396	69
8"	64	208	458	79
8 ½"	68	234	515	88
9"	72	260	572	98
9 ½"	76	290	638	110
10"	80	321	706	121
10 ½"	84	352	774	132
11"	88	383	842	144
12"	96	464	1.020	169

6 NIKA-Performance Mixed 12-24 Strand

NIKA-Performance Mixed 12-24 Strand Ropes is the latest development of Katradis Marine Ropes SA in the field of conventional ropes. NIKA-Performance ropes are constructed using a completely different twisting concept that enhances the breaking strength and the cyclic loading performance. In the rope's structure High Tenacity Polyester Fibers are combined with NIKA-Steel® fibers during a specially designed twisting & stranding process. The resulting rope is stronger and more enduring in cyclic loading than conventional mixed ropes. NIKA-Performance ropes' balanced structure is accordant to EN ISO 10556 specifications.

NIKA-Performance Mixed ropes' layout is ideal for applications requiring floating properties and resistance to abrasion without compromising the axial strength. They have very good resistance to sunlight & chemicals, very good resistance to cyclic loading and their efficiency remains the same both in wet and dry conditions.

NIKA-Performance Mixed ropes are produced according to international standards such as EN ISO 10556. They are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES -MOORING TAILS

Average w/w PES percentage: 25%

Specific Gravity: 0,99 (Floating)

Elongation at breaking: 15% - 18%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Resistance to UV radiation: Very good
Chemical Resistance to ALKALI: Very good
Chemical Resistance to ORGANIC SOLVENT: Very good
Chemical Resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature
Chemical resistance to ORGANIC SOLVENT: Very good

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	66,5	146	29
5"	40	79	174	35
5 ½"	44	96	211	41
6"	48	115	253	48
6 ½"	52	136	299	55
7"	56	156	342	63
7 ½"	60	180	396	71
8"	64	208	458	80
8 ½"	68	234	515	90
9"	72	260	572	100
9 ½"	76	290	638	114
10"	80	321	706	125
10 ½"	84	352	774	136
11"	88	383	842	148
12"	96	464	1.020	175

7 Ultra Mixed NIKA-Steel® 8 Strand

Ultra Mixed NIKA-Steel® 8-Strand (4x2) Ropes are constructed using specially twisted yarns of NIKA-Steel® fibers with High Tenacity Polyester fibers (in a 50% - 50% w/w combination respectively) in the outer layers of the strand. Each strand is composed of mixed NIKA-Steel® / HT Polyester yarns in the outer layers and Nika-Steel® yarns in the core layer. Their mechanically balanced structure, accordant to EN ISO 10556, protects the strands' outer layers against abrasion while achieving extra high breaking strengths.

Ultra Mixed NIKA-Steel® ropes' layout is ideal for demanding applications where high abrasion resistance & extra high strength are required. They have very good resistance to sunlight & chemicals, very good resistance to cyclic loading and their efficiency remains the same both in wet and dry conditions.

Ultra Mixed NIKA-Steel® ropes are produced according to international standards such as EN ISO 10556. They are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,1

Average Polyester w/w percentage: 40%

Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	71	156	28,5
5"	40	89	196	34
5 ½"	44	107	235	39
6"	48	128	281	47
6 ½"	52	151	331	55
7"	56	173	380	62
7 ½"	60	201	441	73
8"	64	225	495	80
8 ½"	68	257	565	91,5
9"	72	289	635	103
9 ½"	76	324	713	115
10"	80	358	786	127
10 ½"	84	395	869	139
11"	88	430	945	150
12"	96	515	1.131	180

8 Ultra Mixed NIKA-Steel® 12-24 Strand

Ultra Mixed NIKA-Steel® 12/24-Strand Ropes are constructed using specially twisted yarns of NIKA-Steel® fibers with High Tenacity Polyester fibers (in a 50% - 50% w/w combination respectively) in the outer layers of the strand. Each strand is composed of mixed NIKA-Steel® / HT Polyester yarns in the outer layers and Nika-Steel® yarns in the core layer. Their mechanically balanced structure, accordant to EN ISO 10556 specifications, protects the strands' outer layers against abrasion while achieving extra high breaking strengths.

Ultra Mixed NIKA-Steel® ropes' layout is ideal for demanding applications where high abrasion resistance & extra high strength are required. They have very good resistance to sunlight & chemicals, very good resistance to cyclic loading and their efficiency remains the same both in wet and dry conditions.

Ultra Mixed NIKA-Steel® ropes are produced according to international standards such as EN ISO 10556. They are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,1
Average Polyester w/w percentage: 40%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	71	156	30
5"	40	89	196	36
5 ½"	44	107	235	41
6"	48	128	281	49
6 ½"	52	151	331	57
7"	56	173	380	64
7 ½"	60	201	441	75
8"	64	225	495	82
8 ½"	68	257	565	93,5
9"	72	289	635	105
9 ½"	76	324	713	117
10"	80	358	786	129
10 ½"	84	395	869	140,5
11"	88	430	945	152
12"	96	515	1.131	183

9 NIKA-Flex® 8 Strand

NIKA-Flex 8-Strand (4x2) Ropes are mixed Polyolefin & Polyester ropes. High tenacity Polyester fibers cover NIKA-Steel® fibers through an engineered twisting process. The selected twist factor & fiber tensioning make the NIKA-Flex yarns stronger and more abrasion resistant than conventional mixed yarns. All of the strands are composed of mixed NIKA-Flex yarns and the resulting Polyester percentage is 50% - 50% w/w though the whole strand's cross-section.

Nika-Flex ropes are ideal for demanding applications. The Ultra high abrasion resistance, the very high breaking strength and the excellent endurance to cyclic loading make up for the lack of buoyancy.

Also, NIKA-Flex ropes exhibit excellent resistance to sunlight & chemicals.

NIKA-Flex ropes are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES -MOORING TAILS

Specific gravity: 1,14
Average Polyester w/w percentage: 50%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H2SO4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	78	172	35
5"	40	102	224	44
5 ½"	44	124	273	52
6"	48	147	323	60
6 ½"	52	172	378	70
7"	56	200	440	81
7 ½"	60	230	506	91
8"	64	262	576	103
8 ½"	68	296	651	116
9"	72	331	728	128
9 ½"	76	370	814	145
10"	80	409	900	159
10 ½"	84	453	997	175
11"	88	496	1.091	193
12"	96	590	1.298	229

10 NIKA-Flex® 12-24 Strand

NIKA-Flex 12/24-Strand Ropes are mixed Polyolefin & Polyester ropes. High tenacity Polyester fibers cover NIKA-Steel® fibers through an engineered twisting process. The selected twist factor & fiber tensioning make the NIKA-Flex yarns stronger and more abrasion resistant than conventional mixed yarns. All of the strands are composed of mixed NIKA-Flex yarns and the resulting Polyester percentage is 50% - 50% w/w though the whole strand's cross-section.

NIKA-Flex ropes are ideal for demanding applications. The Ultra high abrasion resistance, the very high breaking strength and the excellent endurance to cyclic loading make up for the lack of buoyancy.

Also, NIKA-Flex ropes exhibit excellent resistance to sunlight & chemicals.

NIKA-Flex ropes are user friendly, rotation resistant and easy to splice. They comply with the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,14
Average Polyester w/w percentage: 50%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	78	172	35
5"	40	102	224	44
5 ½"	44	124	273	52
6"	48	147	323	60
6 ½"	52	172	378	70
7"	56	200	440	81
7 ½"	60	230	506	91
8"	64	262	576	103
8 ½"	68	296	651	116
9"	72	331	728	128
9 ½"	76	370	814	145
10"	80	409	900	159
10 ½"	84	453	997	175
11"	88	496	1.091	193
12"	96	590	1.298	229

11 Plain Mixed NIKA-Steel® 8 Strand

Plain Mixed NIKA-Steel® 8-Strand (4x2) Ropes are constructed by mixed twisting NIKA-Steel® and Polyester fibers in the outer layer of the strand (Mixed NIKA-Steel®). Their layout is fit for applications requiring abrasion resistance properties.

They have excellent resistance to abrasion (Polyester fibers) wet/dry, sunlight (as Nika-Steel® fibers are more than adequately protected by the external Polyester fibers) & chemicals, good resistance to cyclic loading and maintain the same performance wet/dry.

They are user friendly, rotation resistant and easy to splice. Polyester fibers possess the best endurance among all the high tenacity fibers.

These ropes comply to the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - MOORING TAILS

Specific gravity: 0,98 (Floating)
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	60,9	134	25
5"	40	75	165	30
5 ½"	44	91	200	37
6"	48	107	235	43
6 ½"	52	125	275	49
7"	56	146	320	56
7 ½"	60	166	365	63,5
8"	64	191	420	74
8 ½"	68	218	480	83
9"	72	239	526	93
9 ½"	76	268	590	101
10"	80	293	645	111
10 ½"	84	328	722	119
11"	88	357	785	128
12"	96	423	931	152

12 Plain Mixed NIKA-Steel® 12-24 Strand

Plain Mixed NIKA-Steel ® 12/24-Strand Ropes are constructed by mixed twisting NIKA-Steel® and Polyester fibers in the outer layer of the strand (Mixed NIKA-Steel®). Their layout is fit for applications requiring abrasion resistance properties.

They have excellent resistance to abrasion (Polyester cover fibers) wet/dry, sunlight (as Nika- Steel®

fibers are more than adequately protected by the external Polyester fibers) & chemicals, good resistance to cyclic loading and maintain the same performance wet/dry.

They are user friendly, rotation resistant and easy to splice. Polyester fibers possess the best endurance among all the high tenacity fibers.

These ropes comply to the latest regulations and recommendations of OCIMF for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - MOORING TAILS

Specific gravity: 0,98 (Floating)
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Elongation at breaking: 15%-18%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	60,9	134	25
5"	40	75	165	30
5 ½"	44	91	200	37
6"	48	107	235	43
6 ½"	52	125	275	49
7"	56	146	320	56
7 ½"	60	166	365	63,5
8"	64	191	420	74
8 ½"	68	218	480	83
9"	72	239	526	93
9 ½"	76	268	590	101
10"	80	293	645	111
10 ½"	84	328	722	119
11"	88	357	785	128
12"	96	423	931	152

13

NIKA-Polyester 8 Strand

NIKA-Polyester 8-Strand Ropes are 100% made from High Tenacity Polyester fibers.
NIKA-Polyester ropes are known for their excellent strength and abrasion resistance properties.

NIKA-Polyester ropes are fit for applications requiring high breaking strength, excellent resistance against abrasion and shock absorption properties.

NIKA-Polyester ropes exhibit excellent resistance to UV sunlight, chemicals and cyclic loading. They maintain the same performance in wet and dry conditions. Their non-rotating 8-strand structure makes them extremely user friendly and easy to splice.

NIKA-Polyester ropes are produced according to international standards such as DIN EN ISO 1141 & CI 1304. They also comply with the latest regulations and recommendations for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,38
Melting point: 265 °C
Elongation at breaking: 15-20%
Fiber water absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	103	227	30
5"	40	121	266	36
5 ½"	44	141	310	42
6"	48	175	385	52
6 ½"	52	196	431	59
7"	56	238	524	71
7 ½"	60	262	576	77
8"	64	310	682	92
8 ½"	68	344	757	102
9"	72	378	832	109
9 ½"	76	422	928	120
10"	80	466	1.025	135
10 ½"	84	512	1.126	148
11"	88	559	1.230	160
12"	96	670	1.474	195

14

NIKA-Polyester 12-24 Strand

NIKA-Polyester 12/24-Strand Ropes are 100% made from High Tenacity Polyester fibers.
NIKA-Polyester ropes are known for their excellent strength and abrasion resistance properties.

NIKA-Polyester ropes are fit for applications requiring high breaking strength, excellent resistance against abrasion and shock absorption properties.

NIKA-Polyester ropes exhibit excellent resistance to UV sunlight, chemicals and cyclic loading. They maintain the same performance in wet and dry conditions.

12-24 Strand NIKA-Polyester ropes are rotation resistant, user friendly and easy to splice.

NIKA-Polyester ropes are produced according to international standards such as DIN EN ISO 1141. They also comply with the latest regulations and recommendations for the safe mooring of tanker-LNG-LPG vessels.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,38
Melting point: 265 °C
Elongation at breaking: 15-20%
Fiber water absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	103	227	31
5"	40	121	266	37
5 ½"	44	141	310	46
6"	48	175	385	54,5
6 ½"	52	196	431	64
7"	56	238	524	75
7 ½"	60	262	576	83
8"	64	310	682	96
8 ½"	68	344	757	109,5
9"	72	378	832	118
9 ½"	76	422	928	129
10"	80	466	1.025	145
10 ½"	84	512	1.126	160
11"	88	559	1.230	173,5
12"	96	670	1.474	206

15 NIKA-Nylon 8 Strand

NIKA-Nylon 8-Strand Ropes are made from 100% Nylon (Polyamide) fibers. Nylon fibers exhibit high elongation at break thus giving the NIKA-Nylon ropes high elasticity and excellent shock absorption properties.

NIKA-Nylon ropes have very good resistance against abrasion, UV sunlight, chemicals and cyclic loading. Their non-rotating 8-strand construction makes them user friendly and easy to splice.

They are ideal for applications where high elasticity and shock absorption properties are a must.

NIKA-Nylon ropes are produced according to international standards such as DIN EN ISO 1140, CI 1303 and MIL-R-24337. When wet they lose approximately 10%- 15% of their dry breaking strength which is recovered once dry again.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,14
Melting point: 218 °C
Elongation at breaking: 25-30%
Fiber water absorption: 3-5%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	80	176	33
5"	40	99	218	40
5 ½"	44	120	264	48
6"	48	142	312	58
6 ½"	52	166	365	67,5
7"	56	193	425	77
7 ½"	60	221	486	88,5
8"	64	253	557	101
8 ½"	68	286	629	115
9"	72	319	702	130
9 ½"	76	357	785	143,5
10"	80	394	867	158,5
10 ½"	84	437	961	175
11"	88	477	1.049	192
12"	96	568	1.250	213

16 NIKA-Nylon 12-24 Strand

NIKA-Nylon 12/24-Strand Ropes are made from 100% Nylon (Polyamide) fibers. Nylon fibers exhibit high elongation at break thus giving the Nika-Nylon ropes high elasticity and excellent shock absorption properties.

NIKA-Nylon ropes have very good resistance against abrasion, UV sunlight, chemicals and cyclic loading. They are rotation resistant, user friendly and easy to splice.

They are ideal for applications where high elasticity and shock absorption properties are a must.

NIKA-Nylon ropes are produced according to international standards such as DIN EN ISO 1140 and MIL-R-24337. When wet they lose approximately 10%- 15% of their dry breaking strength which is recovered once dry again.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 1,14
Melting point: 218 °C
Elongation at breaking: 25-30%
Fiber water absorption: 3-5%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	80	176	34
5"	40	99	218	41
5 ½"	44	120	264	49
6"	48	142	312	59
6 ½"	52	166	365	68,5
7"	56	193	425	78.5
7 ½"	60	221	486	89
8"	64	253	557	102
8 ½"	68	286	629	116
9"	72	319	702	130.5
9 ½"	76	357	785	144
10"	80	394	867	159,5
10 ½"	84	437	961	175.5
11"	88	477	1.049	193
12"	96	568	1.250	213,5

17 NIKA-Double Braided Polyester/NIKA-Steel®

NIKA-Double Braided Polyester/NIKA-Steel® Combination Ropes are constructed by braiding a 32/64 strand Polyester sheath (or jacket) over a hollow 24-strand Nika-Steel® core rope.

Their construction is fit for applications requiring abrasion resistance properties.

They have excellent resistance to abrasion (Polyester jacket) wet/dry, sunlight & chemicals, good resistance to cyclic loading and maintain the same performance wet/dry.

They are user friendly, rotation resistant and easy to splice. Their larger contact area reduces the fatigue on the rope when it spools and when passing through fairleads.

Polyester fibers possess the best endurance among all the high tenacity fibers. These ropes comply to the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

These ropes are produced in 2 executions:

Hard for automatic winches.

Soft for easier manual handling

NIKA-STEEL®: MELT MIXTURE OF PRIME POLYPROPYLENE, 15-50% HDPE, UV & SPECIAL ADDITIVES (as per EN ISO 10572)

APPLICATIONS:

MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific gravity: 0,99 (Floating)
Melting point: 165°C (Nika-Steel®) / 265°C (PES)
Elongation at breaking: 15%-18%
Fiber water absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	75	165	27
5"	40	94	207	33
5 ½"	44	113	249	38
6"	48	135	297	46
6 ½"	52	158	348	53
7"	56	180	396	62
7 ½"	60	212	466	69
8"	64	244	537	80
8 ½"	68	275	605	91
9"	72	304	669	101
9 ½"	76	340	748	112
10"	80	376	827	123
10 ½"	84	416	915	138
11"	88	454	999	151
12"	96	533	1.173	172

18 NIKA-Double Braided 100% Polyester

NIKA-Double Braided 100% Polyester Ropes are 100% Polyester ropes constructed by braiding a 32/64 strand sheath (or jacket) over a braided core.

Their construction is fit for applications requiring high breaking load and low stretch properties.

They have excellent resistance to abrasion wet/dry, cyclic loading, sunlight, chemicals and same performance wet/dry.

They are produced according to international standards such as ISO 10547, MIL-R-24677, CI 1311, BS 7648. They are user friendly, rotation resistant and easy to splice. Their larger contact area reduces the fatigue on the rope when it spools and when passing through fairleads.

Polyester fibers possess the best endurance among all the high tenacity fibers. These ropes comply to the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

APPLICATIONS:

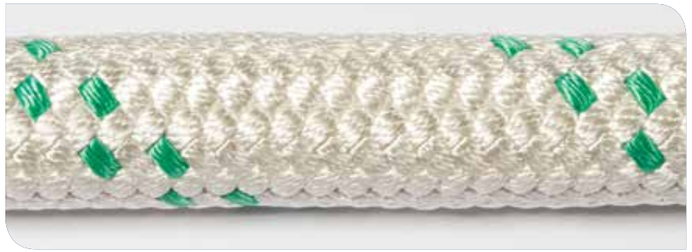
MOORING - ANCHORING - TOWING - MOORING TAILS

Specific gravity: 1,38
Melting point: 265°C
Zero Strength Temperature: 245 °C
Elongation at breaking: 15-20%
Fiber Water Absorption: 0-1%
50% Strength Loss Temperature: 177 °C
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 vin high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	103	227	30,5
5"	40	122	268	38
5 ½"	44	147	323	46
6"	48	176	387	55
6 ½"	52	205	451	66
7"	56	238	524	76
7 ½"	60	274	603	87
8"	64	312	686	100
8 ½"	68	355	781	114
9"	72	395	869	126
9 ½"	76	439	966	141
10"	80	487	1.071	158
10 ½"	84	538	1.184	174
11"	88	591	1.300	189
12"	96	702	1.544	226

19 NIKA-Double Braided 100% Nylon



NIKA-Double Braided 100% Nylon Ropes are 100% Nylon Ropes constructed by braiding a 32/64 -strand sheath (or jacket) over a braided core.

Their construction is fit for applications requiring high breaking load and shock absorption properties.

They have good resistance to abrasion, sunlight, cyclic loading and chemicals.

They are produced according to international standards such as EN ISO 10554, MIL-DTL-24050, CI 1310, and BS 7648.

They are user friendly, rotation resistant and easy to splice. Their larger contact area reduces the fatigue on the rope when it spools and when passing through fairleads.

These ropes comply to the latest regulations and recommendations of OCIMF for the safe mooring of the tanker-LNG-LPG vessels.

APPLICATIONS:

MOORING - ANCHORING - TOW LINES -MOORING TAILS

Specific gravity: 1,14
Melting point: 218 °C
Elongation at breaking: 25-30%
Fiber Water Absorption: 3-5%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	80,5	177	31,8
5"	40	99	218	40
5 ½"	44	120	264	47
6 "	48	143	315	58
6 ½"	52	168	370	69
7"	56	195	429	79
7 ½ "	60	223	491	91
8"	64	254	559	104
8 ½"	68	286	629	117
9"	72	321	706	131
9 ½"	76	358	788	148
10"	80	397	873	163
10 ½"	84	438	964	178
11"	88	481	1.058	194
12"	96	572	1.258	236

20 Nika-MultiForce

NIKA-MultiForce ropes are a special construction of Double Braided ropes ideal for winchlines. They are composed of a 12strand high strength Nikasteel® core and a tightly overbraided 32/64 Multifilament Polypropylene cover.

In NIKA-MultiForce ropes the overbraided jacket has a double function: It is tightly braided ensuring maximum endurance against abrasion while the high elongational properties of the multifilament fibers enables them to contribute to the axial strength of the rope. Therefore, the rope exhibits both high strength and high resistance to abrasion.

NIKA-MultiForce ropes are constructed with a thoroughly monitored production process, standard for every double braided produced by Katradis Marine Ropes Industry, which guarantees their quality and performance. They exhibit excellent resistance against abrasion, UV sunlight and good resistance to cyclic loading.

NIKA-MultiForce ropes are ideal for use in winchlines, they are user friendly, torque free and floating.

They are produced and quality controlled in accordance to the latest standards (ISO 9554 & ISO 2307)
Standard Colors: White with Blue Stripes
Optional Colors: Yellow, Black

APPLICATIONS:

MOORING - TOWING - ANCHORING

Technical Specifications
Specific weight: 0,91 (Floating)
Elongation at Breaking: 15% - 18%
Melting point: 165 °C
Resistance to UV radiation: Very good
Fiber water Absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Very good
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
3 ½ "	28	37,3	82	16
4"	32	48,3	106,3	20
4 ½ "	36	61	134	25
5"	40	75,5	166	30
5 ½"	44	93,5	205,5	37
6"	48	110	242	43
6 ½ "	52	128,5	283	50
7"	56	149	327,5	57
7 ½"	60	172,5	379,5	64
8"	64	194	427	73
8 ½"	68	221	486	84
9"	72	247	543	93
9 ½"	76	275	605	104
10"	80	304,5	670	115
10 ½"	84	336	739	123
11"	88	368,5	810,5	134
12"	96	437	961	157
13"	104	521	1.146	178

20 NIKA-DualForce Mixed

NIKA-DualForce Mixed Ropes are Double Braided ropes specially engineered to provide maximum performance and ease of handling.

They are composed of NIKA-Steel® fibers and HT Polyester fibers carefully balanced in a unique Double Braided construction. The 32x2 strands cover is over-braided over the twill braided core.

The 50% weight percentage of each element ensures maximum performance from both core and cover resulting in higher breaking Load and lower rope diameter.

They are user friendly and torque free (rotation resistant). They exhibit excellent resistance against abrasion, UV sunlight and very good endurance in cyclic loading. They retain their strength when wet. NIKA-DualForce ropes are ideal for applications requiring floating properties.

They are produced and quality controlled in accordance to the latest standards (ISO 9554 & ISO 2307). Standard Colors: White with black and yellow stripes.

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS

Specific weight: 0,99 (Floating)
Elongation at Breaking: 15% –18%
Melting point: 165 °C (NIKA-STEEL®) / 265°C (PES)
Resistance to UV radiation: Very good
Fiber water Absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½ ″	36	70	154	28
5″	40	88	194	34
5 ½ ″	44	106	233	39
6″	48	125	275	48
6 ½ ″	52	148	325	55
7″	56	169	372	64
7 ½″	60	200	440	71
8″	64	228	502	83
8 ½ ″	68	257	565	94
9″	72	285	627	103
9 ½ ″	76	319	701	116
10″	80	353	775	128
10 ½ ″	84	390	858	145
11″	88	425	935	157
12″	96	501	1.102	180

21 NIKA-DualForce Polyester

NIKA-DualForce Polyester Ropes are Double Braided ropes specially engineered to provide maximum performance and ease of handling. They are made 100% from High Tenacity Polyester fibers carefully balanced in a unique Double Braided construction. The 32x2 strands cover is over-braided over the twill braided core. The 50% weight percentage of each element ensures maximum performance from both core and cover resulting in higher breaking Load and lower rope diameter

NIKA-DualForce Polyester ropes are user friendly and torque free (rotation resistant). They have excellent resistance against abrasion, UV sunlight and they exhibit excellent endurance in cyclic loading. They retain their strength when wet.

They are produced and quality controlled in accordance to the latest standards
(ISO 10547, ISO 9554 & ISO 2307)

Standard Colors: White with yellow stripes

APPLICATIONS:
MOORING - ANCHORING - TOW LINES - MOORING TAILS
Specific weight: 1,38
Elongation at Breaking: 15% – 20%
Melting point: 265°C
Resistance to UV radiation: Very good
Fiber water Absorption: 0-1%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½"	36	103	227	32
5"	40	122	268	39,5
5 ½"	44	147	323	47
6"	48	176	387	57
6 ½"	52	205	451	68
7"	56	238	524	79
7 ½"	60	274	603	89
8"	64	312	686	104
8 ½ "	68	355	781	116
9"	72	395	869	129
9 ½ "	76	439	966	145
10"	80	487	1.071	163
10 ½"	84	538	1.184	178
11"	88	591	1.300	195
12"	96	702	1.544	229

22 NIKA-DualForce Nylon

NIKA-DualForce Nylon Ropes are Double Braided ropes specially engineered to provide maximum performance and ease of handling. They are made from High Tenacity Nylon (Polyamide) yarns carefully balanced in a unique Double Braided construction. The 32x2 strands cover is over-braided over the twill braided core. The 50% weight percentage of each element ensures maximum performance from both core and cover resulting in higher breaking Load and lower rope diameter.

NIKA-DualForce Nylon ropes are user friendly and torque free (rotation resistant). They have very good resistance against abrasion, UV sunlight and they exhibit excellent endurance in cyclic loading. Their high elongation properties make them ideal for applications where high line elasticity and shock absorption properties are required.

They are produced and quality controlled in accordance to the latest standards
(EN ISO 10554, ISO 9554 & ISO 2307)

Standard Colors: White with green stripes

APPLICATIONS:
MOORING - ANCHORING - TOW LINES -MOORING TAILS
Specific weight: 1,14
Elongation at Breaking: 25% – 30%
Melting point: 218°C
Resistance to UV radiation: Very good
Fiber water Absorption: 3-5%
Chemical resistance to ALKALI: Very good
Chemical resistance to ORGANIC SOLVENT: Excellent
Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
4 ½ "	36	80,5	177	33
5"	40	99	218	42
5 ½"	44	120	264	49
6 "	48	143	315	60
6 ½"	52	168	370	71
7"	56	195	429	81
7 ½"	60	223	491	94
8"	64	254	559	108
8 ½"	68	286	629	120
9"	72	321	706	135
9 ½ "	76	358	788	153
10"	80	397	879	166
10 ½ "	84	438	964	183
11"	88	481	1.058	198
12"	96	572	1.258	240

NIKA-DualForce Multifil

NIKA-DualForce Multifil Ropes are Double Braided ropes made from 100% High Tenacity Multifilament Polypropylene. The 50%-50% core-cover weight relation ensures maximum performance from both the 24-strands braided core and the 32x2-strands braided cover.

High Tenacity Multifilament Polypropylene fibers exhibit high elastic properties, which makes these ropes fit for applications where high shock absorption properties and high elasticity are required

NIKA-DualForce Multifil ropes are constructed with a thoroughly monitored production process which guarantees their quality and performance.

They exhibit very good resistance against abrasion, UV sunlight and good resistance to cyclic loading. NIKA-DualForce Multifil ropes are user friendly, torque free and floating.

They are produced and quality controlled in accordance to the latest standards (ISO 9554 & ISO 2307)

Standard Colors: White with Blue Stripes

Optional Colors: Yellow, Black

APPLICATIONS:

MOORING - ANCHORING - TOW LINES

Specific weight: 0,91 (Floating)

Elongation at Breaking: 20% – 23%

Melting point: 165°C

Resistance to UV radiation: Very good

Fiber water absorption: 0-1%

Chemical resistance to ALKALI: Very good

Chemical resistance to ORGANIC SOLVENT: Very good

Chemical resistance to ACID: Excellent. Strength loss in NaOH and H_2SO_4 in high concentration and temperature

Technical Data

Size (Circ)	Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
(inches)	(mm)	Kilos / 100m	Kilos / 220m	Tons
½ ″	36	61	134	24
5″	40	75,5	166	29
5 ½ ″	44	93,5	205,5	36
6″	48	110	242	42
6 ½ ″	52	128,5	283	48
7″	56	149	327,5	55
7 ½″	60	172,5	379,5	62
8″	64	194	427	71
8 ½″	68	221	486	81
9″	72	247	543	90
9 ½″	76	275	605	100
10″	80	304,5	670	109
10 ½ ″	84	336	739	118
11″	88	368,5	810,5	128
12″	96	437	961	151

NIKA® Protector

Extra Protection from Abrasion

NIKA® Guard

The vital protection for your rope

An excellent cost-effective option to protect your ropes!
Nika® Guard is a Flat Polyester webbing pad. The Velcro® scratch tape, firmly stitched on the sleeve guard, is used for quick & easy installation and removal.
Colours: blue or orange.

Length: 2m

FEATURES:

• Fixed or adjustable for easy positioning • Extends significantly the service life of synthetic ropes • Abrasion resistant • Light and flexible

NIKA® Protector

High performance protection for your mooring line

The Nika® Protector has been engineered to provide maximum line protection. It is constructed of special UHMWPE fibers and coated with Nika® Lube for extra abrasion & cut resistance properties .The protector is externally coated with Nika® Thane to increase the gripping performance. Furthermore, it has been designed and optimized for lower operating temperatures and longer life for your high performance mooring lines.

Length 2,5 m

FEATURES:

• Fixed or adjustable for easy positioning • Extends significantly the service life of synthetic and High Modulus Ropes • Superior abrasion and cut resistance
• Reduced operating temperatures • Extremely thick layer of protection
• Very light and flexible

Chafe-Pro® HB

The ideal protection

The Chafe-Pro® HB is constructed of multiple layers of FJORD, Inc.'s specially formulated and designed heavy-duty nylon weaves. Abrasion testing has shown the Chafe-Pro® HB to be more resistant to chafe abrasion than marine-grade fire hose .
The Chafe-Pro® HB is available in standard lengths.
Colour: black.

FEATURES:

• Fixed or adjustable for easy positioning • Extends significantly the service life of synthetics ropes • Excellent abrasion resistance • Light and flexible

STEEL WIRE ROPES

The Katradis Group supplies its clients worldwide a broad range of steel wire ropes for shipping, fishing and industrial applications that comply with the requirements set by ABS, API (American Petroleum Institute), DNV·GL and Lloyd's Register.

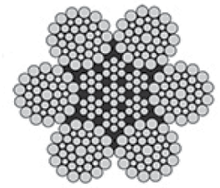
We offer a wide range of Steel Wire Ropes, covering the majority of requirements (common and specialized ones), destined for shipping, fishing and industrial purposes. Also wire rope sling fabrication is effected according to customers' requirements.

Our production line includes:
6x7, 6x19, 6x24, 6x25, 6x36, 6x37, 6x61, 19x7, 19x19 , 35(W)x7, 35(W)xK7 compacted, 4x36 compacted, 4x39 etc.

STANDARD WIRE ROPES

1

HYPERMAX 6S
Class 6x36 WS Steel Core Wire Rope (IWRC)



Drawn galvanized standard wire rope (non rotation resistant with round wires), used in many applications eg, as cargo runner, hoisting, luffing, mooring, towing, anchoring etc.

Also suitable for fabrication of steel wire rope slings for lifting operations.

The independent wire rope core provides more strength and stability to the wire rope compared to fiber core. Parallel lay construction, long lifetime.

Strongly recommended by OCIMF for mooring of tanker, LNG & LPG vessels.

Construction according to **EN 12385** standard.

Class 6x36

6x31WS+IWRC (1-6-6+6-12)
6x36WS+ IWRC (1-7-7+7-14)
6x41WS+ IWRC (1-8-8+8-16)
6x46WS+ IWRC (1-9-9+9-18)
6x49WS+ IWRC (1-8-8-8+8-16)

Total number of strands: 6
Total number of wires: 174-342
Core type: IWRC
Outer wires number: 72-108
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay
On request options: Ungalvanized, left hand, greasing level, 2.160 grade.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
12	0,589	90,7	100
14	0,802	124	137
16	1.050	161	179
18	1.330	204	226
20	1.640	252	279
22	1.980	305	338
24	2.360	363	402
26	2.760	426	472
28	3.210	494	547
30	3.700	570	631
32	4.190	645	715
34	4.750	731	810
36	5.300	817	904
38	5.920	914	1.012
40	6.540	1.010	1.120
42	7.230	1.115	1.235
44	7.920	1.220	1.350
46	8.670	1.335	1.480
48	9.420	1.450	1.610
50	10.260	1.575	1.750
52	11.100	1.700	1.890
54	11.950	1.840	2.040
56	12.800	1.980	2.190
58	13.750	2.125	2.350
60	14.700	2.270	2.510

Nominal diameter	Approx. weight	Minimum Breaking Load
mm	Kg/m	kN
62	15,95	2.660
64	17,00	2.800
66	18,20	2.970
68	19,20	3.100
70	20,50	3.300
72	22,00	3.500
74	22,40	3.650
76	24,00	3.800
78	25,30	4.000
80	27,00	4.200

2

HYPERSIX S
6x37 Standard Steel Core Wire Rope (IWRC)

Drawn galvanized standard wire rope (non rotation resistant with round wires), used in many applications eg, as cargo runner, hoisting, luffing, mooring, towing, anchoring etc. Also suitable for fabrication of steel wire rope slings for lifting operations.

The independent wire rope core provides more strength and stability to the wire rope compared to fiber core.

Very flexible.

Construction according to DIN 3066 standard (1+6+12+18).

Total number of strands: 6
Total number of wires: 271
Core type: IWRC
Outer wires number: 108
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

On request options: Ungalvanized, left hand, greasing level.

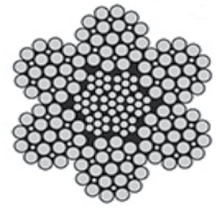
Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
4,50	0,077	11,4	12,7
5,00	0,095	14,1	15,6
6,00	0,13	20,3	22,5
7,00	0,18	27,6	30,6
8,00	0,24	36,1	40,0
9,00	0,30	45,7	50,6
10,00	0,38	56,4	62,5
11,00	0,46	68,2	75,5
12,00	0,54	81,2	89,9
13,00	0,64	95,2	105,4
14,00	0,74	110	122
15,00	0,86	127	141
16,00	0,97	144	159
17,00	1,10	164	182
18,00	1,23	183	203
19,00	1,37	204	226
20,00	1,52	225	249
21,00	1,68	249	276
22,00	1,84	273	302
23,00	2,01	299	331
24,00	2,19	325	360
25,00	2,38	353	391
26,00	2,57	381	422
27,00	2,77	412	456

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
28,00	2,98	442	489
30,00	3,44	510	565
32,00	3,90	577	639
34,00	4,42	654	724
35,00	4,67	692	766
36,00	4,93	730	808
38,00	5,51	816	904
40,00	6,09	902	999
42,00	6,73	996	1.103
44,00	7,37	1.090	1.207
45,00	7,72	1.143	1.266
46,00	8,07	1.195	1.323
47,00	8,42	1.248	1.382
48,00	8,77	1.300	1.440
50,00	9,53	1.410	1.561
51,00	9,91	1.465	1.622
52,00	10,3	1.520	1.683
54,00	11,1	1.645	1.822
55,00	11,5	1.708	1.891
56,00	11,9	1.770	1.960
57,00	12,3	1.835	2.032
58,00	12,8	1.900	2.104
59,00	13,2	1.965	2.176
60,00	13,7	2.030	2.248

3

HYPERLIFT 6S
Class 6x19 Steel Core Wire Rope (IWRC)



Standard wire rope. Mainly used for elevators and fishing operations.

Construction according to EN 12385 standard.

Class 6x19
6x19 S+ IWRC (1-9-9)
6x19W+IWRC (1-6-6+6)
6x25F+IWRC (or 6x19F+IWRC) (1-6-6F-12)
6x26WS+IWRC (1-5-5-5-10)

Total number of strands: 6
Total number of wires: 90 - 156
Core type: IWRC
Outer wires number: 54 - 72
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

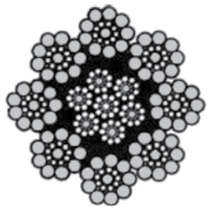
On request options: Galvanized/ungalvanized, left hand, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
6,00	0,144	22,7	25,1
7,00	0,196	30,9	34,2
8,00	0,256	40,3	44,7
9,00	0,324	51,0	56,5
10,00	0,400	63,0	69,8
11,00	0,484	76,2	84,4
12,00	0,576	90,7	100,4
13,00	0,676	106	118
14,00	0,784	124	137
15,00	0,902	143	158
16,00	1,020	161	179
17,00	1,16	183	203
18,00	1,30	204	226
19,00	1,45	228	252
20,00	1,60	252	279
21,00	1,77	279	309
22,00	1,94	305	338
24,00	2,30	363	402
25,00	2,50	395	437
26,00	2,70	426	472
27,00	2,92	460	509
28,00	3,14	494	547
29,00	3,38	532	589
30,00	3,62	570	631
32,00	4,10	645	715
34,00	4,64	731	809
35,00	4,91	774	857
36,00	5,18	817	904
38,00	5,79	914	1.012
40,00	6,40	1.010	1.120
42,00	7,07	1.115	1.235
44,00	7,74	1.220	1.350

4

HYPERLIFT 8S
Class 8x19 Steel Core Wire Rope



Standard wire rope. Used mainly on elevators.

Construction according to the EN 12385 standard.

Class 8x19
8x19 S + IWRC (1-9-9)
8x19W+IWRC (1-6-6+6)
8x25F+IWRC (1-6-6F+12)
8x26WS+IWRC (1-5-5+5-10)

Total number of strands: 8
Total number of wires: 152-208
Core type: IWRC
Outer wires number: 72-96
Outer strands number: 8
Lay type: Regular lay
Lay direction: Right hand lay

On request options: Galvanized/ungalvanized, left hand, dual tensile, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load			
		1.370 - 1.770N/mm²	1.570N/mm²	1.770N/mm²	1.960N/mm²
mm	Kg/m	kN			
8,00	0,260	35,8	35,7	40,3	44,7
9,00	0,330	45,3	45,2	51,0	56,5
10,00	0,407	55,9	55,9	63,0	69,8
11,00	0,492	67,6	67,6	76,2	84,4
12,00	0,586	80,5	80,5	90,7	100
13,00	0,688	94,5	94	106	118
14,00	0,798	110,0	110	124	137
15,00	0,919	126,0	127	143	158
16,00	1,04	143,0	143	161	179
17,00	1,18		162	183	203
18,00	1,32		181	204	226
19,00	1,47		202	228	253
20,00	1,63		224	252	279
22,00	1,97		271	305	338
24,00	2,34		322	363	402
26,00	2,75		378	426	472
27,00	2,97		408	460	509
28,00	3,19		438	494	547
29,00	3,43		472	532	589
30,00	3,68		506	570	631
32,00	4,17		572	645	715

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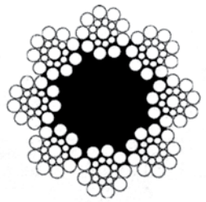
HYPERLIFT 8F
Class 8x19 Fiber Core Wire Rope



Standard wire rope. Used mainly on elevators.

Construction according to the EN 12385 standard.

Class 8x19
8x19 S + FC (1-9-9)
8x19W+FC (1-6-6+6)
8x25F+FC (1-6-6F+12)
8x26WS+FC (1-5-5+5-10)

Total number of strands: 8
Total number of wires: 152-208
Core type: FIBER
Outer wires number: 72-96
Outer strands number: 8
Lay type: Regular lay
Lay direction: Right hand lay

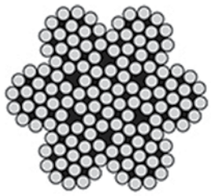
On request options: Galvanized/ungalvanized, left hand, dual tensile, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load			
		1.370 - 1.770N/mm²	1.570N/mm²	1.770N/mm²	1.960N/mm²
mm	Kg/m	kN			
8,00	0,218	28,1	29,4	33,2	36,8
9,00	0,275	35,6	37,3	42,0	46,5
10,00	0,340	44,0	46	51,9	57,4
11,00	0,411	53,2	55,7	62,8	69,5
12,00	0,490	63,3	66,3	74,7	82,7
13,00	0,575	74,3	77,7	87,6	97,1
14,00	0,666	86,1	90	102	113
15,00	0,768	98,9	105	118	130
16,00	0,870	112,5	118	133	147
17,00	0,985		134	151	167
18,00	1,100		149	168	186
19,00	1,230		167	188	208
20,00	1,36		184	207	230
22,00	1,65		223	251	278
24,00	1,96		265	299	331
26,00	2,30		311	351	388
27,00	2,48		336	379	419
28,00	2,67		361	407	450
29,00	2,87		389	438	485
30,00	3,07		416	469	519
32,00	3,48		471	531	588

6

HYPERLINE S
6x19 Standard Steel Core Wire Rope (WSC/IWRC)



Standard wire rope.

Mainly used as auxiliary wire or seizing wire.

Construction according to DIN 3060 standard (1+6+12).

Total number of strands: 6
Total number of wires: 114
Type of core: WSC / IWRC
Outer wires number: 12
Outer strands number: 6
Type of lay: Regular lay
Direction of lay: Right hand lay

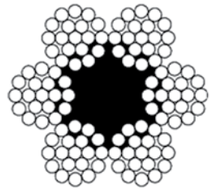
On request options: Galvanized/ungalvanized, left hand, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
3	0,0342	5,29	5,86
4	0,0609	9,40	10,4
5	0,0952	14,7	16,3
6	0,138	21,2	23,5
7	0,187	28,8	31,9
8	0,243	37,6	41,6
9	0,308	47,6	52,7
10	0,381	58,8	65,1
11	0,461	71,1	78,7
12	0,548	84,6	93,7
13	0,643	99,3	110
14	0,746	115	127
16	0,974	150	166
18	1,23	190	210
20	1,52	235	260
22	1,84	284	314
24	2,19	338	374
26	2,57	397	440
28	2,98	461	510
32	3,90	602	667
36	4,93	761	843
40	6,09	940	1.041
44	7,37	1.140	1.262
48	8,77	1.350	1.495
52	10,3	1.590	1.761
56	12,0	1.840	2.038

7

HYPERLINE F
6x19 Standard Fiber Core Wire Rope



Standard wire rope.

Mainly used as auxiliary wire or seizing wire.

Construction according to DIN 3060 standard (1+6+12).

Total number of strands: 6
Total number of wires: 114
Core type: FIBER
Outer wires number: 12
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

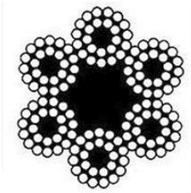
On request options: Galvanized/ungalvanized, left hand, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
3	0,0311	4,90	5,43
4	0,0554	8,70	9,63
5	0,0865	13,6	15,1
6	0,125	19,6	21,7
7	0,170	26,7	29,6
8	0,221	34,8	38,5
9	0,280	44,1	48,8
10	0,346	54,4	60,2
11	0,419	65,8	72,9
12	0,498	78,3	86,7
13	0,585	91,9	102
14	0,678	107	118
16	0,886	139	154
18	1,12	176	195
20	1,38	218	241
22	1,67	263	291
24	1,99	313	347
26	2,34	368	408
28	2,71	426	472
32	3,54	557	617
36	4,48	705	781
40	5,54	870	963
44	6,70	1.050	1.163
48	7,97	1.250	1.384
52	9,36	1.470	1.628
56	10,9	1.710	1.894

8

ULTRAFLEX
6x24 + 7 Fiber Core Wire Rope



Drawn galvanized standard wire rope. Used mainly for log lashing. A low breaking strength rope but very flexible due to the 7 fiber cores , however, flattening will occur when bent.

Short lifetime. Moderate abrasion resistant.

Construction according to DIN 3068 standard (9+15).

Total number of strands: 6
Total number of wires: 144
Core type: FIBER
Outer wires number: 90
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

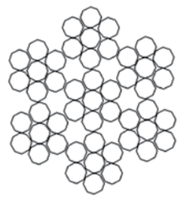
On request options: Ungalvanized, left hand, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
6	0,115		17.9
7	0,156		24.3
8	0,204	28,2	
9	0,258	35,6	
10	0,318	44,0	
11	0,385	53,2	
12	0,458	63,3	
13	0,538	74,3	
14	0,624	86,2	
16	0,815	113	
18	1,030	143	
20	1,270	176	
22	1,540	213	
24	1,830	253	
26	2,150	297	
28	2,500	345	
32	3,260	450	
36	4,130	570	
40	5,090	704	
44	6,160	851	
48	7,340	1.010	
52	8,610	1.190	
56	9,990	1.380	

9

HYPERMARE S
6x7 Steel Core Wire Rope



Drawn galvanized standard wire rope. Mainly used in small diameters. Applications include stay wire, release wire and fishing operations. Construction according to **EN standard 12385**.

Metallic core can be either WSC (same construction as the strand) or IWRC (which is more flexible).

Heavy galvanized option is also available upon request.

Quality: Galvanized
Tensile strength: 1570 /1770 /1960 N/mm²
Total number of strands: 7
Total number of wires: 49
Type of core: WSC
Outer wires number: 36
Outer strands number: 6
Type of lay: Regular lay
Direction of lay: Right hand lay

On request options: Heavy galvanized, ungalvanized, left hand, IWRC core, greasing level.

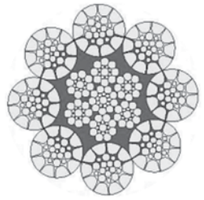
Technical Data

Nominal diameter	Approx. weight	Minimum breaking load		
		1.570N/mm²	1.770N/mm²	1.960N/mm²
mm	Kg/m	kN		
7,00	0,188	27,60	31,1	34,5
8,00	0,246	36,10	40,7	45,0
9,00	0,311	45,70	51,5	57,0
10,00	0,384	56,30	63,5	70,4
11,00	0,465	68,20	76,9	85,1
12,00	0,553	81	91,5	101
13,00	0,649	95	107	119
14,00	0,753	111	125	138
15,00	0,868	128	144	159
16,00	0,983	145	163	180
17,00	1,115	163	184	204
18,00	1,240	183	206	228
19,00	1,390	204	230	255
20,00	1,540	225	254	281
21,00	1,700	249	281	311
22,00	1,860	273	308	341
23,00	2,035	299	337	373
24,00	2,210	325	366	405
25,00	2,400	353	398	441

COMPACTED WIRE ROPES

10

HYPERSTRONG 8C
8strand Compacted Wire Rope



Compacted - 8-Strand - Inner Plastified Wire ropes

This wire rope belongs in the non rotation resistant classification but its strands are compacted and it is used mainly as luffing wire rope on high efficiency ship & harbour mobile cranes, container bridge cranes, overhead travelling hoists, mineral loading cranes. It is an 8-strand construction, very flexible and suitable for use on many crane brands installed on board.

These wire ropes are usually produced as drawn galvanized and internally and externally lubricated, which makes them corrosion resistant and durable against the various harsh marine environment factors. Additionally, these ropes are produced with an extruded inner plastic layer, which ensures water impermeability and elimination of point contact between wires & strands of the inner and outer layers. This extra protection from corrosion and inner contact, prolongs the useful service life of the ropes. Attention must be paid in the installation of the new rope on board, its running-in (bedding in) period and load and the inspection before and after every usage. Diligent production processes, raw material selection and quality control in all stages of production ensure a long and trouble free service life. Compacting technology reduces the size and increases the breaking strength.

Main advantages

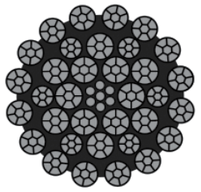
- Extremely resistant & flexible 8-strand ordinary lay or Lang's lay rope with inner plastification, suited as luffing & hoisting rope.
- Long service life due to inner plastification and reduced rope abrasion, resulting from the smooth rope surface, also exhibiting excellent flexural fatigue properties
- Resistance against corrosion due to galvanized wires, the permanent lubrication and inner plastification
- Reliability and safety in operation as a result of the highest breaking forces, especially provided by the compaction technology
- Exceptional resistance against shock loads and vibrations due to the radial & elastic structured rope and inner plastification
- Optimal spooling characteristics due to high resistance against radial deformations
- Reduced maintenance effort due to intensive lubrication in each production step
- Trouble-free operation

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load		
		1.770N/mm²	1.960N/mm²	2.160N/mm²
mm	Kg/m	kN		
10	0,46	79	87	96
11	0,55	95	105	115
12	0,69	114	126	139
13	0,81	137	152	168
14	0,93	159	176	194
15	1,06	182	201	222
16	1,20	206	229	252
17	1,35	233	258	284
18	1,55	260	288	318
19	1,71	294	326	359
20	1,89	324	359	395
21	2,15	363	401	442
22	2,34	396	439	484
23	2,54	433	480	529
24	2,75	462	512	564
25	2,97	508	562	620
26	3,19	546	605	667
27	3,51	588	651	717
28	3,76	640	708	781
28,6	3,90	659	730	804
29	4,03	682	755	832
30	4,3	740	819	903
32	4,90	842	932	1.027
34	5,59	936	1.036	1.142
36	6,26	1.055	1.168	1.287
38	6,96	1.195	1.323	1.458
40	7,71	1.312	1.453	1.601
42	8,45	1.449	1.604	1.768
44	9,27	1.573	1.742	1.920

11

HYPERFLEX C
35(W)xK7 Compacted Wire Rope



Fully compacted - 16 outer strands - 1960 Grade

The 35(W)xK7 Compacted wire rope belongs in the multi strand, rotation resistant classification but its strands are compacted and is used as hoisting wire rope.

It is very flexible, 3-layer construction and is suitable for use on European crane brands. Most common lay is the Lang's lay, for multi layer spooling on the winch drum. 2160 tensile strength is also available upon request.

These ropes are usually produced as drawn galvanized and internally & externally lubricated, which makes them corrosion resistant and endurable against the various harsh marine environment factors.

Optionally, these ropes are inner plastified for additional protection against corrosion as the inner core is kept greased and is unaffected by the environmental factors that degrade the rope and reduce its useful service life. Inner plastification adds to safety standards as inspection is very difficult for the inner part of the rope, improves the fatigue life, shows greater resistance to drum crushing, is more abrasion resistant and shows reduced interstrand nicking.

Diligent production processes, raw material selection and quality control in all stages of production ensure a long and trouble free service life.

Attention must be paid on the installation of the new rope on board, its running-in (bedding in) period and load and the inspection before and after every usage.

Compacting technology reduces the size and increases the breaking strength.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load 1.960N/mm²
mm	Kg/m	kN
12	0,74	133
13	0,86	155
14	1,00	180
15	1,15	215
16	1,30	244
18	1,70	309
19	1,85	345
20	2,10	375
21	2,25	414
22	2,50	450
23	2,77	490
24	2,95	530
25	3,15	590
26	3,50	620
27	3,75	670
28	4,08	720
29	4,30	775
30	4,65	830
32	5,55	940
34	5,95	1.050
36	6,70	1.180
38	7,08	1.250
40	7,85	1.380

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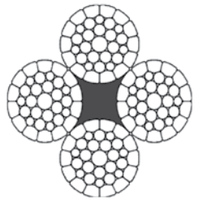
HYPERFORCE 4C
4xK36WS Fiber Core Compacted Wire Rope



Rotation resistant hoisting wire rope.
High breaking strength with compacted strands.
Excellent resistant to abrasion and crushing on multi layer drum spooling.
Easier for handling, installation.
For tough / harsh working conditions.
Note : Use of swivel is not recommended for these 4 stranded ropes

Applications:
Applications which demand a tough rope and at the same time rotation resistant characteristics.
EOT cranes with high lifting height.
Bulk ship unloader cranes with grabs.
Heavy duty construction equipment like pile drivers.
Special ropes for suspended platform hoists, pulling winches and mobile crane hoists.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load 1.960N/mm²
mm	Kg/m	kN
20	1,71	344
22	2,07	416
24	2,47	495
26	2,89	582
28	3,36	674
30	3,85	774
32	4,38	881
34	4,95	994
36	5,55	1.104
38	6,18	1.226
40	6,85	1.358

* Rope weights given are for guidance only

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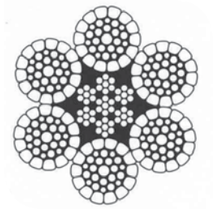
HYPERSTRONG 6C
6xK36WS Compacted Steel Core Wire Rope (IWRC)



Drawn galvanized steel wire rope with compacted strands (non rotation resistant), used in many applications eg, as cargo runner, hoisting, luffing, mooring, towing, anchoring etc.

Also suitable for fabrication of steel wire rope slings for lifting operations.

The independent wire rope core provides more strength and stability to the wire rope compared to fiber core. Parallel lay construction, long lifetime. Construction in general according to EN 12385 standard but with compacted strands execution.

Total number of strands: 6
Total number of wires: 216 + 49
Core type: IWRC
Outer wires number: 84
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

On request options: Ungalvanized, left hand, greasing level, 2160 grade.

Compacting process has many advantages on rope's & equipment's performance & lifetime (increased resistance to drum crushing, corrosion, shock loading etc).

Additional cost savings occur due to longer lifetime, reduced abrasion and maintenance on rope and equipment.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load 1.960N/mm²
mm	Kg/m	kN
6,0	0,17	30,9
6,4	0,19	34,7
7,9	0,28	53,3
8,0	0,29	53,8
9,0	0,37	65,5
9,5	0,41	78,3
10,0	0,45	82,3
11,0	0,55	99,6
11,1	0,56	106
12,0	0,65	118
12,7	0,73	136
14,0	0,89	165
14,3	0,93	172
16,0	1,16	202
18,0	1,47	256
19,0	1,64	288
20,0	1,82	315
22,0	2,20	383
22,2	2,24	390
24,0	2,62	454
25,4	2,93	506
26,0	3,07	533
28,0	3,56	610
28,6	3,72	636
30,0	4,09	710
31,8	4,59	782
32,0	4,65	808
34,0	5,25	912
35,0	5,57	943
36,0	5,89	998

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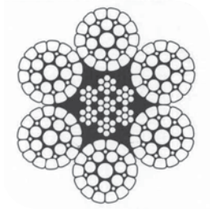
HYPERSTRONG 6CFI
6xK29(Fi) Compacted Steel Core Wire Rope (IWRC)



Drawn galvanized steel wire rope with compacted strands (non rotation resistant), used in many applications eg, as cargo runner, hoisting, luffing, mooring, towing, anchoring etc.

Also suitable for fabrication of steel wire rope slings for lifting operations.

The independent wire rope core provides more strength and stability to the wire rope compared to fiber core. Parallel lay construction, long lifetime.

Construction in general according to EN 12385 standard but with compacted strands execution.

Total number of strands: 6
Total number of wires: 174 + 49
Core type: IWRC
Outer wires number: 84
Outer strands number: 6
Lay type: Regular lay
Lay direction: Right hand lay

On request options: Ungalvanized, left hand, greasing level, 2160 grade.

Compacting process has many advantages on rope's & equipment's performance & lifetime (increased resistance to drum crushing, corrosion, shock loading etc).

Additional cost savings occur due to longer lifetime, reduced abrasion and maintenance on rope and equipment.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load 1.960N/mm²
mm	Kg/m	kN
6,0	0,17	30,9
6,4	0,19	34,7
7,9	0,28	53,3
8,0	0,29	53,8
9,0	0,37	65,5
9,5	0,41	78,3
10,0	0,45	82,3
11,0	0,55	99,6
11,1	0,56	106
12,0	0,65	118
12,7	0,73	136
14,0	0,89	165
14,3	0,93	172
16,0	1,16	202
18,0	1,47	256
19,0	1,64	288
20,0	1,82	315
22,0	2,20	383
22,2	2,24	390
24,0	2,62	454
25,4	2,93	506
26,0	3,07	533
28,0	3,56	610
28,6	3,72	636
30,0	4,09	710
31,8	4,59	782
32,0	4,65	808
34,0	5,25	912
35,0	5,57	943
36,0	5,89	998

ROTATION RESISTANT WIRE ROPES

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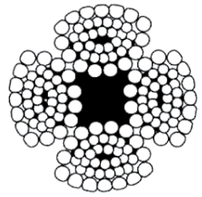
HYPERFORCE 4
4x39 Fiber Core Wire Rope



Rotation Resistant • 4 Strand

This is a 4-stranded rotation resistant rope mainly for use on Japanese crane brands.

It is supplied in drawn galvanized finish and fully lubricated for long service life.

Robust construction for many hours of usage on board. Tensile strength is minimum 1960 N/mm^2.

FC+4x(FC+9 /15+15) - 4xSeS(39)+FC

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load 1.960N/mm^2
mm	Kg/m	kN
8	0,257	44,3
9	0,326	56,1
10	0,402	69,2
12	0,579	96,5
12,5	0,628	108,9
14	0,788	136,3
16	1,03	177,5
18	1,30	225,6
19	1,45	251,1
20	1,61	277,5
22	1,95	335,4
22,5	2,02	348,1
24	2,32	385,4
25	2,51	432,5
26	2,72	466,8
28	3,15	543,3
30	3,62	623,7
31,5	4,05	687,5
32	4,20	709,0
33,5	4,60	777,7
34	4,79	801,2
35,5	5,20	872,8
36	5,30	897,3
37,5	5,78	973,8
38	5,90	999,3
40	6,60	1.078,7

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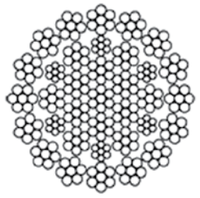
HYPERFLEX R
35(W)x7 Wire Rope



This wire rope belongs in the multi strand, rotation resistant classification and is used as hoisting wire rope.

It is very flexible, 3-layer construction and is suitable for use on many crane brands installed on board.

35(W)X7 ropes are usually produced as drawn galvanized and internally & externally lubricated, which makes them corrosion resistant and endurable against the various harsh marine environment factors.

Construction according to the EN 12385 standard. Diligent production processes, raw material selection and quality control in all stages of production ensure a long and trouble free service life.

Attention must be paid on the installation of the new rope on board, its running-in (bedding in) period and load and the inspection before and after every usage.

Total number of strands: 28-40
Total number of wires: 196 - 280
Core type: WSC
Outer wires number: 96
Outer strands number: 16
Lay type: Lang's lay
Lay direction: Right lang's lay

On request options: Ungalvanized, left Lang's lay, right & left hand ordinary lay, greasing level, 2160 grade.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
10	0,454	63,8	70,6
11	0,549	77,1	85,4
12	0,654	92,1	102
13	0,767	108	119
14	0,890	125	138
15	1,025	145	160
16	1,160	164	181
18	1,470	207	229
19	1,645	231	256
20	1,820	255	282
21	2,010	282	312
22	2,200	309	342
24	2,620	367	406
26	3,070	431	477
28	3,560	500	553
30	4,105	576	638
32	4,650	653	723
34	5,265	740	819
36	5,880	826	914
38	6,560	921	1.020
40	7,260	1.021	1.130

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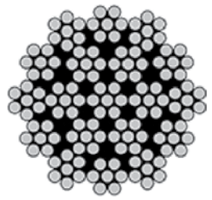
HYPERFLEX N
19x7 Wire Rope



The very basic rotation resistant wire rope, extensively used as hoisting rope for various cranes (provision cranes, hose cranes etc). Also used as life-boat falls.

Less flexible compared to 35(W)x7 but more abrasion resistant.

Its construction is according to EN 12385 standard.

Class 18x7

Total number of strands: 19
Total number of wires: 133
Core type: WSC
Outer wires number: 72
Outer strands number: 12
Lay type: Regular lay
Lay direction: Right hand lay

On request options: Galvanized/ungalvanized, left hand, greasing level.

Technical Data

Nominal diameter	Approx. weight	Minimum breaking load	
		1.770N/mm²	1.960N/mm²
mm	Kg/m	kN	
7	0,196	28,4	31,5
8	0,257	37,2	41,1
9	0,325	47,0	52,1
10	0,401	58,1	64,3
11	0,485	70,2	77,8
12	0,577	83,6	92,6
13	0,678	98,1	109
14	0,786	114	126
15	0,908	131	146
16	1,030	149	165
17	1,165	168	187
18	1,300	188	208
19	1,450	210	233
20	1,600	232	257
22	1,940	281	311
24	2,310	334	370
25	2,510	363	403
26	2,710	392	435
28	3,140	455	504
30	3,610	523	579
32	4,110	594	658
34	4,640	671	743
36	5,200	752	833

Quality

Since the foundation of the Katradis Group, ropes have been our mainline product.

With an 80-year experience in the ropes industry, the Katradis name has become synonymous with excellent quality ropes, supplied to the marine world by an efficient network of worldwide agents and distributors.

We offer a wide range of Rope Constructions & Custom Made Slings, covering the most common type of needs to the most specialized ones, destined for Shipping, Fishing and Industrial purposes.

All ropes supplied by Katradis are very well preformed during all the stages of production, and free from internal stresses.

PREFORMED WIRE ROPES LAST LONGER because they have:

- Greater resistance to fatigue
- Better distribution of the load among strands
- Greater flexibility
- Less tendency to kink
- Greater safety in handling because the wires that break after long wear do not protrude neither damage adjacent wires. Our wire ropes are mainly 1960N/mm^2 grade

Certificates

- ISO 9001 LRQA
- LR Testing Establishment
- American Petroleum Institute
- CE Approval for Elevator Wire Ropes
- CE Approval for Wire Rope Production
- CE Approval for Wire Rope Slings
- Production Approval by Germanischer Lloyd
- ISO 9001 Germanischer Lloyd
- Production Approval by ABS
- Production Approval by LR

COMPARATIVE TABLES

COMPARATIVE TABLE OF WEIGHTS & MIN. BREAKING LOADS OF CONVENTIONAL 6-STRAND & 8-STRAND WIRE ROPES

Diam		6x36WS+IWRC			6x37+IWRC			6x19 Class (IWRC)			8x19+WRC			6x19 Standard +IWRC		
Inch	mm	Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN	
			1.770 N/m m²	1.960 N/m m²		1.770 N/m m²	1.960 N/m m²		1.770 N/m m²	1.960 N/m m²		1.770 N/m m²	1.960 N/m m²		1.770 N/m m²	1.960 N/m m²
1/4″	6				0,13	20,3	22,5	0,144	22,7	25,1				0,138	21,2	23,5
9/32″	7				0,18	27,6	30,6	0,196	30,9	34,2				0,187	28,8	31,9
5/16″	8				0,24	36,1	40	0,256	40,3	44,7	0,26	40,3	44,7	0,243	37,6	41,6
11/32″	9				0,30	45,7	50,6	0,324	51	56,5	0,33	51	56,5	0,308	47,6	52,7
3/8″	10				0,38	56,4	62,5	0,400	63	69,8	0,407	63	69,8	0,381	58,8	65,1
7/16″	11				0,46	68,2	75,5	0,484	76,2	84,4	0,492	76,2	84,4	0,461	71,1	78,7
15/32″	12	0,589	90.7	100	0,54	81,2	89,9	0,576	90,7	100,4	0,586	90,7	100	0,548	84,6	93,7
1/2″	13				0,64	95,2	105,4	0,676	106	118	0,688	106	118	0,643	99,3	110
9/16″	14	0,802	124	137	0,74	110	122	0,784	124	137	0,798	124	137	0,746	115	127
	15				0,86	127	141	0,902	143	158	0,919	143	158			
5/8″	16	1,05	161	179	0,97	144	159	1,020	161	179	1,04	161	179	0,974	150	166
23/32″	18	1,33	204	226	1,23	183	203	1,30	204	226	1,32	204	226	1,23	190	210
3/4″	19				1,37	204	226	1,45	228	252	1,47	228	253			
	20	1,64	252	279	1,52	225	249	1,60	252	279	1,63	252	279	1,52	235	260
	22	1,98	305	338	1,84	273	302	1,94	305	338	1,97	305	338	1,84		314
15/16″	24	2,36	363	402	2,19	325	360	2,30	363	402	2,34	363	402	2,19	284	374
	26	2,76	426	472	2,57	381	422	2,70	426	472	2,75	426	472	2,57		440
1 1/8″	28	3,21	494	547	2,98	442	489	3,14	494	547	3,19	494	547	2,98	338	510
1 3/16″	30	3,70	570	631	3,44	510	565	3,62	570	631	3,68	570	631			
1 1/4″	32	4,19	645	715	3,90	577	639	4,10	645	715	4,17	645	715	3,90	602	667
1 3/8″	34	4,75	731	810	4,42	654	724	4,64	731	809						
1 13/32″	36	5,30	817	904	4,93	730	808	5,18	817	904				4,93	761	843
1 1/2″	38	5,92	914	1.012	5,51	816	904	5,79	914	1.012						
1 9/16″	40	6,54	1.010	1.120	6,09	302	999	6,40	1.010	1.120				6,09	940	1.041
1 5/8″	42	7,23	1.115	1.235	6,73	996	1.103	7,07	1.115	1.235						
1 3/4″	44	7,92	1.220	1.350	7,37	1.090	1.207	7,74	1.220	1.350				7,37	1.140	1.262
1 13/16″	46	8,67	1.335	1.480	8,07	1.195	1.323									
1 7/8″	48	9,42	1.450	1.610	8,77	1.300	1.440							8,77	1.350	1.495
2″	50	10,26	1.575	1.750	9,53	1.410	1.561									
2 1/8″	52	11,10	1.700	1.890	10,3	1.520	1.683							10,30	1.590	1.761
2 3/16″	54	11,95	1.840	2.040	11,1	1.645	1.822									
2 1/4″	56	12,80	1.980	2.190	11,9	1.770	1.960							12,00	1.840	2.038
2 3/8″	58	13,75	2.125	2.350	12,8	1.900	2.104									
2 13/32″	60	14,70	2.270	2.510	13,7	2.030	2.248									

COMPARATIVE TABLE OF WEIGHTS & MIN. BREAKING LOADS OF ROTATION RESISTANT WIRE ROPES (COMPACTED & CONVENTIONAL)

Diam		35(W)x7			35(W)xK7 Compacted		4x39+FC		4xK36WS+FC Compacted		19X7 (Class 18x7)		
Inch	mm	Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN	Weight Kg/m	M.B.L. kN	Weight Kg/m	M.B.L. kN	Weight Kg/m	M.B.L. kN	
			1.770 N/m m²	1.960 N/m m²		1.960 N/m m²		1.960 N/m m²		1.960 N/m m²		1.770 N/m m²	1.960 N/m m²
3/8″	10	0,454	63,8	70,6			0,40	69,2			0,401	58,1	64,3
7/16″	11	0,549	77,1	85,4			0,49	82,9			0,485	70,2	77,8
15/32″	12	0,654	92,1	102	0,74	133	0,58	96,5			0,577	83,6	92,6
	13	0,767	108	119	0,86	155	0,68	116,4			0,678	98,1	109
9/16″	14	0,8A	125	138	1,00	180	0,79	136,3			0,786	114	126
	15	1,025	145	160	1,15	215	0,91	156,9			0,91	131	146
5/8″	16	1,16	164	181	1,30	244	1,03	177,5			1,03	149	165
23/32″	18	1,47	207	229	1,70	309	1,30	225,6			1,30	188	208
3/4″	19	1,65	231	256	1,85	345	1,45	251,1			1,45	210	233
	20	1,82	255	282	2,10	375	1,61	277,5	1,71	344	1,60	232	257
	22	2,20	309	342	2,50	414	1,95	335,4	2,07	416	1,94	281	311
15/16″	24	2,62	367	406	2,95	530	2,32	385,4	2,47	495	2,31	334	370
	26	3,07	431	477	3,50	620	2,72	466,8	2,89	582	2,71	392	435
	28	3,56	500	553	4,08	720	3,15	543,3	3,36	674	3,14	455	504
1 3/16″	30	4,11	576	638	4,65	830	3,62	623,7	3,85	774	3,61	523	579
	31,5	4,51	634	702	5,33	913	4,05	687,5			3,99	576	638
	32	4,65	653	723	5,55	940	4,20	709,0	4,38	881	4,11	594	658
	33,5	5,11	718	795	5,85	1.023	4,60	777,7			4,51	652	722
1 3/8″	34	5,27	740	819	5,95	1.050	4,79	801,2	4,95	994	4,64	671	743
	35,5	5,73	805	890	6,51	1.148	5,20	872,8			5,06	732	811
1 13/32″	36	5,88	826	914	6,70	1.180	5,30	897,3	5,55	1104	5,20	752	833
	37,5	6,39	897	994	6,99	1.233	5,78	973,8					
1 1/2″	38	6,56	921	1.020	7,08	1.250	5,90	999,3	6,18	1226			
1 9/16″	40	7,26	1.021	1.130	7,85	1.380	6,60	1078,7	6,85	1358			

COMPARATIVE TABLE OF WEIGHTS & MIN. BREAKING LOADS OF FISHING WIRE ROPES

Diam		6x19 Class (IWRC)			6x7 (IWRC)		
Inch	mm	Weight Kg/m	M.B.L. kN		Weight Kg/m	M.B.L. kN	
			1770 N/m m²	1960 N/m m²		1770 N/m m²	1960 N/m m²
1/4"	6	0,144	22,7	25,1			
9/32"	7	0,196	30,9	34,2	0,188	31,1	34,5
5/16"	8	0,256	40,3	44,7	0,246	40,7	45,0
11/32"	9	0,324	51	56,5	0,311	51,5	57,0
3/8"	10	0,400	63	69,8	0,384	63,5	70,4
7/16"	11	0,484	76,2	84,4	0,465	76,9	85,1
15/32"	12	0,576	90,7	100,4	0,533	91,5	101
	13	0,676	106	118	0,649	107	119
9/16"	14	0,784	124	137	0,753	125	138
	15	0,902	143	158	0,868	144	159
5/8"	16	1,020	161	179	0,983	163	180
	17	1,16	183	203	1,115	184	204
23/32"	18	1,30	204	226	1,240	206	228
3/4"	19	1,45	228	252	1,390	230	255
	20	1,60	252	279	1,540	254	281

COMPARATIVE TABLE OF WEIGHTS & MIN. BREAKING LOADS OF COMPACTED 6-STRAND & 8-STRAND WIRE ROPES

Diam		6x36 WS+IWRC / 6x29+IWRC (Compacted)		8-Strand Compacted			
Inch	mm	Weight Kg/m	M.B.L. kN	Weight Kg/m	M.B.L. kN		
			1960 N/m m²		1770 N/m m²	1960 N/m m²	2160 N/m m²
	10	0,450	82,3	0,46	79	87	96
	11	0,55	99,6	0,55	95	105	115
	11,1	0,56	106				
15/32"	12	0,65	118	0,69	114	126	139
1/2"	12,7	0,73	136				
9/16"	14	0,89	165	0,93	159	176	194
5/8"	16	1,16	202	1,20	206	229	252
23/32"	18	1,47	256	1,55	294	326	359
	19	1,64	288	1,71	294	326	359
3/4"	20	1,82	315	1,89	324	359	395
	22	2,20	383	2,34	396	439	484
15/16"	24	2,62	454	2,75	462	512	564
1"	25,4	2,93	506				
	26	3,07	533	3,19	546	605	667
	28	3,56	610	3,76	640	708	781
1 1/8"	28,6	3,72	636	3,90	659	730	804
1 3/16"	30	4,09	710	4,30	740	819	903
1 1/4"	31,8	4,59	782				
	32	4,65	808	4,90	842	932	1.027
1 3/8"	34	5,25	912	5,59	936	1.036	1.142
	35	5,57	943				
1 13/32"	36	5,89	998	6,26	1.055	1.168	1.287

TABLE OF APPLICATIONS OF STEEL WIRE ROPES

	TOWING ROPES	OFFSHORE	MOORING LINES	ANCHOR LINES	RUNNERS	LASHING	SLINGS	STANDING RIGGING	RUNNING RIGGING	BOOM HOISTS	PREVENTERS	BOAT FALLS	WINCHES	CRANES	HOISTS	SAFETY ROPES	CRANE HOISTS	DERRICKS	TRAWL WARPS / FISHING	ELEVATOR ROPES	GUYS
1x19								X													
6x7								X											X		
6x19		X					X		X										X	X	X
6x24						X															
6X37IWRC			X	X					X		X		X								
6X25IWRC				X				X													
6X29IWRC				X	X						X			X		X					
6X26IWRC		X							X				X								
6X31IWRC									X				X	X							
6X36IWRC	X	X	X	X	X		X		X		X		X	X		X		X			
6X41IWRC	X		X	X	X				X		X		X	X		X		X			
6X19IWRC							X	X													X
6X7SC								X											X		X
8X25									X												
8X19																				X	
35(W)X7					X						X		X	X		X					
35(W)XK7		X			X						X		X	X		X					
4XK36					X								X	X		X					
19X7					X						X		X	X		X					
8xK26WS									X				X	X							
6XK36WS+IWRC	X	X	X	X	X		X		X		X		X	X		X		X			
6XK29Fi+IWRC				X	X						X			X		X					

ANCHORS & ANCHOR CHAINS

We supply from the smallest to the largest sizes of chains and accessories in grades U1, U2 & U3, which are accompanied with the major class certificates.

Also we supply anchors, mainly the most commonly used ones, Hall type, but we can provide, at notice any type needed.

Comprehensive stocks of new and second hand anchors and chains are held in Piraeus & China and this stock allows KATRADIS to provide the quickest delivery service possible worldwide.

Prompt service within 24 hours

Our large stock of studlink chains and anchors, in Greece and overseas, for prompt delivery when needed, is accompanied with IACS class test Certificates of the Classification Society of your interest which are obtainable by the Society in question upon presence of its surveyor during the test, guaranteeing top quality materials.

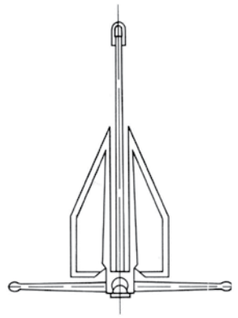
We are able to give our customers a prompt and complete service in the supply of guaranteed certified accessories of studlink chains and anchors for naval marine uses as well as for buoy moorings and offshore platforms.

We serve all types of vessels in greek ports and oveseas

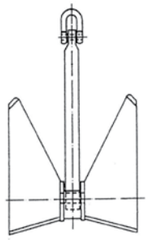
In our testing facilities of 250 tons capacity and 32m free test length, approved for accuracy by the classification Societies, we undertake on your account tests of specimens and materials.

Suitable attachments for tests of anchors up to 15 tons and anchor chains up to the max capacity of 2452 kN (breaking test of links or proof test of full length) are available for conducting the necessary tests for our clients.

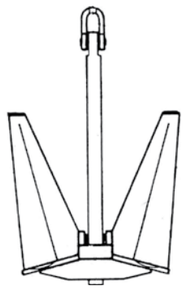
1 High Holding Power Anchors



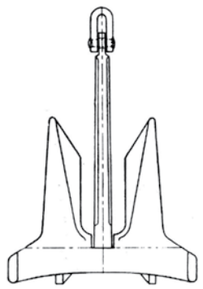
DANFORTH



POOL - TW



POOL - N



AC 14

We supply commonly used High Holding Anchors like Danforth, Pool-N, Pool-TW and AC-14 types, but we can provide, at a short notice, any type needed.

Comprehensive stocks of new and second hand anchors and chains are held in Piraeus and China and these stocks allow KATRADIS to provide the quickest delivery service possible worldwide.

Quality Standards

It's possible to classify the various anchor types based upon certain characteristics such as fluke area, shank, stabilizers etc.

Anchor type efficiency is shown at the below equation:

HOLDING CAPACITY = WEIGHT * EFFICIENCY.

High holding Power anchors belong to Class D/E with efficiency ranging from 8-15.

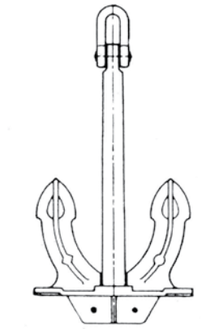
Class societies allow for a 25% weight reduction for the High Holding Power anchors because of their higher holding capacity.

The performance of an anchor is affected by many different factors, to name a few: fluke area and design, shank design, soil conditions, load conditions, type of mooring line.

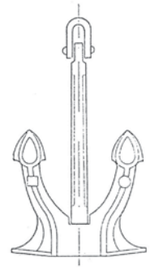
Technical Data

PROOF LOAD, Kgf							
Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test
37,50	2.370	675,00	18.600	2.700	54.800	5.175	80.700
41,25	2.570	712,50	19.500	2.775	55.800	5.250	81.300
45,00	2.760	750,00	20.300	2.850	56.800	5.400	82.600
48,75	2.950	787,50	21.200	2.925	57.800	5.550	83.800
52,50	3.130	825,00	22.000	3.000	58.800	5.700	85.000
56,25	3.300	862,50	22.800	3.075	59.800	5.850	86.100
60,00	3.460	900,00	23.600	3.150	60.700	6.000	87.000
67,50	3.700	937,50	24.400	3.225	61.600	6.150	88.100
75,00	3.990	975,00	25.200	3.300	62.500	6.300	89.200
90,00	4.520	1012,50	26.000	3.375	63.400	6.450	90.300
105,00	5.000	1050,00	26.700	3.450	64.300	6.600	91.400
120,00	5430	1087,50	27.500	3.525	65.100	6.750	92.400
135,00	5.850	1125,00	28.300	3.600	65.800	6.900	93.400
150,00	6.250	1200,00	29.800	3.675	66.600	7.050	94.400
168,75	6.810	1275,00	31.300	3.750	67.400	7.200	95.300
187,50	7.180	1350,00	32.700	3.825	68.200	7.350	96.200
206,25	7.640	1425,00	34.200	3.900	69.000	7.500	97.100
225,00	8.110	1500,00	35.600	3.975	69.800	7.875	99.300
243,75	8.580	1575,00	36.900	4.050	70.500	8.250	101.500
262,50	9.050	1650,00	38.300	4.125	71.300	8.625	103.600
281,25	9.520	1725,00	39.600	4.200	72.000	9.000	105.700
300,00	9.980	1800,00	40.900	4.275	72.700	9.375	107.800
318,75	10.500	1875,00	42.200	4.350	73.500	9.750	109.900
337,50	10.900	1950,00	43.500	4.425	74.200	10.125	111.900
356,25	11.400	2025,00	44.700	4.500	74.900	10.500	113.900
375,00	11.800	2100,00	45.900	4.575	75.500	10.875	115.900
412,50	12.700	2175,00	47.100	4.650	76.200	11.250	117.700
450,00	13.500	2250,00	48.300	4.725	76.900	11.625	119.500
487,50	14.300	2325,00	49.400	4.800	77.500	12.000	120.900
525,00	15.200	2400,00	50.500	4.875	78.200	12.375	122.200
562,50	16.100	2475,00	51.600	4.950	78.800	12.750	123.500
600,00	16.900	2550,00	52.700	5.025	79.400	13.125	124.700
637,50	17.800	2625,00	53.800	5.100	80.100	13.500	125.900

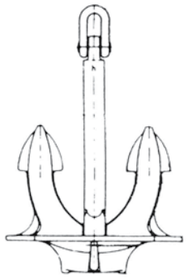
2 Stockless (normal power)



UNION



SPEK



HALL

We supply commonly used stockless anchors like Hall, Spek and Union types, but we can provide, at a short notice, any type needed.

Comprehensive stocks of new and second hand anchors and chains are held in Piraeus and China and these stocks allow KATRADIS to provide the quickest delivery service possible worldwide.

Quality Standards

It's possible to classify the various anchor types based upon certain characteristics such as fluke area, shank, stabilizers etc.

Anchor type efficiency is shown at the below equation:

HOLDING CAPACITY = WEIGHT * EFFICIENCY.

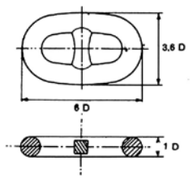
Common stockless anchors belong to Class F with efficiency ranging from 4-6.

The performance of an anchor is affected by many different factors, to name a few: fluke area and design, shank design, soil conditions, load conditions, type of mooring line.

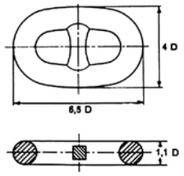
Technical Data

PROOF LOAD, Kgf							
Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test	Weight of Anchor (kgs)	Proof Test
50,00	2.370	900,00	18.600	3.600	54.800	6.900	80.700
55,00	2.570	950,00	19.500	3.700	55.800	7.000	81.300
60,00	2.760	1.000,00	20.300	3.800	56.800	7.200	82.600
65,00	2.950	1.050,00	21.200	3.900	57.800	7.400	83.800
70,00	3.130	1.100,00	22.000	4.000	58.800	7.600	85.000
75,00	3.300	1.150,00	22.800	4.100	59.800	7.800	86.100
80,00	3.460	1.200,00	23.600	4.200	60.700	8.000	87.000
90,00	3.700	1.250,00	24.400	4.300	61.600	8.200	88.100
100,00	3.990	1.300,00	25.200	4.400	62.500	8.400	89.200
120,00	4.520	1.350,00	26.000	4.500	63.400	8.600	90.300
140,00	5.000	1.400,00	26.700	4.600	64.300	8.800	91.400
160,00	5.430	1.450,00	27.500	4.700	65.100	9.000	92.400
180,00	5.850	1.500,00	28.300	4.800	65.800	9.200	93.400
200,00	6.250	1.600,00	29.800	4.900	66.600	9.400	94.400
225,00	6.810	1.700,00	31.300	5.000	67.400	9.600	95.300
250,00	7.180	1.800,00	32.700	5.100	68.200	9.800	96.200
275,00	7.640	1.900,00	34.200	5.200	69.000	10.000	97.100
300,00	8.110	2.000,00	35.600	5.300	69.800	10.500	99.300
325,00	8.580	2.100,00	36.900	5.400	70.500	11.000	101.500
350,00	9.050	2.200,00	38.300	5.500	71.300	11.500	103.600
375,00	9.520	2.300,00	39.600	5.600	72.000	12.000	105.700
400,00	9.980	2.400,00	40.900	5.700	72.700	12.500	107.800
425,00	10.500	2.500,00	42.200	5.800	73.500	13.000	109.900
450,00	10.900	2.600,00	43.500	5.900	74.200	13.500	111.900
475,00	11.400	2.700,00	44.700	6.000	74.900	14.000	113.900
500,00	11.800	2.800,00	45.900	6.100	75.500	14.500	115.900
550,00	12.700	2.900,00	47.100	6.200	76.200	15.000	117.700
600,00	13.500	3.000,00	48.300	6.300	76.900	15.500	119.500
650,00	14.300	3.100,00	49.400	6.400	77.500	16.000	120.900
700,00	15.200	3.200,00	50.500	6.500	78.200	16.500	122.200
750,00	16.100	3.300,00	51.600	6.600	78.800	17.000	123.500
800,00	16.900	3.400,00	52.700	6.700	79.400	17.500	124.700
850,00	17.800	3.500,00	53.800	6.800	80.100	18.000	125.900

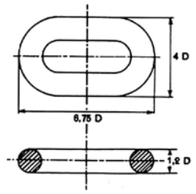
3 Stud Link Chain Cables



COMMON LINK

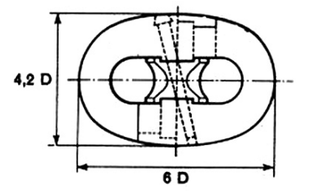


ENLARGED LINK

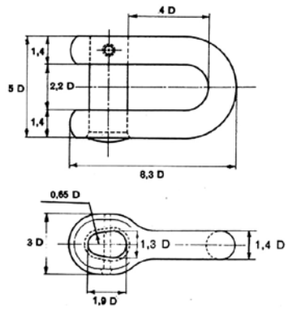


END LINK

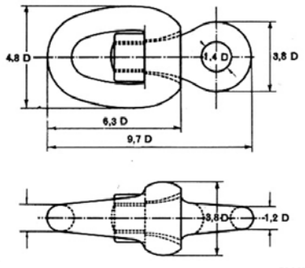
FORERUNNERS WITH SWIVEL

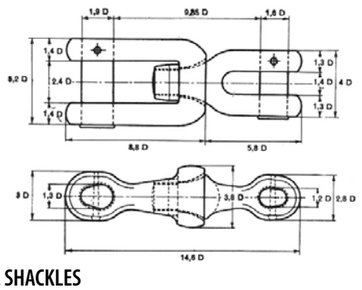


KENTER JOINING SHACKLE



ANCHOR SHACKLE "D" TYPE





SWIVEL SHACKLES

SWIVEL

SWIVEL SHACKLE TYPE B

Studlink chain cables are one of the most important tools of the ship for its anchoring operations.

Katradis stud link chain cables are produced using diligent production techniques, compliance to International standards & class societies' rules and regulations, attention to every link, IACS class approved raw materials (steel bars), standardized tests, inspection in all stages of production and heat treatment in big size ovens for total quality performance.

Our studlink chains are Grade U2 & U3 and are accompanied by IACS class test certificates.
Our studlink chains are fit for any type of ship guaranteeing flawless quality, easy operation and long service life.

When selecting studlink chains, please remember that any chain is as strong as its weakest link.

SHIP CHAIN PROOF AND BREAKING LOADS

Chain Diameter	Grades				Min Weight (Kg per length of 27,5m)
	Proof Load, kN		Breaking Load, kN		
	0,00981 d^2 (44-0,08d)	0,01373 d^2 (44-0,08d)	0,01373 d^2 (44-0,08d)	0,01961d^2 (44-0,08d)	
mm	Grade 2	Grade 3	Grade 2	Grade 3	Kg
16	107	150	150	216	160
17,5	128	179	179	256	190
19	150	211	211	301	225
20,5	175	244	244	349	265
22	201	281	281	401	300
24	238	333	333	475	360
26	278	389	389	556	420
28	321	450	450	642	490
30	367	514	514	734	565
32	416	583	583	832	635
34	468	655	655	936	720
36	523	732	732	1.045	800
38	581	812	812	1.160	895
40	640	896	896	1.280	1.000
42	703	984	984	1.406	1.100
44	769	1.076	1.076	1.537	1.200
46	837	1.171	1.171	1.673	1.300
48	908	1.270	1.270	1.814	1.440
50	981	1.373	1.373	1.961	1.560
52	1.057	1.479	1.479	2.113	1.680
54	1.135	1.589	1.589	2.269	1.795
56	1.216	1.702	1.702	2.430	1.925
58	1.299	1.818	1.818	2.597	2.060
60	1.384	1.938	1.938	2.767	2.200
62	1.472	2.060	2.060	2.943	2.350
64	1.562	2.187	2.187	3.123	2.520
66	1.655	2.316	2.316	3.308	2.680
68	1.749	2.448	2.448	3.496	2.850
70	1.846	2.583	2.583	3.690	3.030
73	1.995	2.792	2.792	3.988	3.290
76	2.149	3.007	3.007	4.295	3.550
78	2.254	3.154	3.154	4.505	3.755
81	2.415	3.380	3.380	4.827	4.035
84	2.580	3.612	3.612	5.158	4.395
87	2.750	3.849	3.849	5.498	4.710
90	2.924	4.093	4.093	5.845	5.005
92	3.042	4.258	4.258	6.081	5.200
95	3.223	4.510	4.510	6.442	5.570
97	3.345	4.682	4.682	6.687	5.760
100	3.532	4.943	4.943	7.060	6.130
102	3.658	5.120	5.120	7.312	6.505
105	3.850	5.389	5.389	7.697	6.885
107	3.980	5.571	5.571	7.957	7.140
111	4.245	5.941	5.941	8.486	7.715
114	4.447	6.224	6.224	8.889	8.085
117	4.652	6.511	6.511	9.298	8.445
120	4.859	6.801	6.801	9.714	9.110
122	4.999	6.997	6.997	9.994	9.240
124	5.141	7.195	7.195	10.276	9.700
127	5.354	7.494	7.494	10.703	10.040
130	5.571	7.796	7.796	11.135	10.420
132	5.716	8.000	8.000	11.426	10.910

Quality Assurance & International Certificates

Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

KATRADIS MARINE ROPES INDUSTRY S.A.
11, Psaron
186 48, Drapetsona
Greece

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard:

BS EN ISO 9001:2008

The Quality Management System is applicable to:

Design, Production and Sales of Synthetic Ropes and Anodes. Trading of Marine Paints, Anchors, Anchor Chains and their Accessories, Safety Ladders, Fenders and Bollards for Ports.

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

Approval
Certificate No: PIR0362324

Original Approval: 26 July 2006
Current Certificate: 06 August 2015
Certificate Expiry: 05 August 2018

Issued by: Hellenic Lloyd's S.A. for and on behalf of Lloyd's Register Quality Assurance

UKAS
001

Approval Certificate No: PIR0362324
87, Akti Miaouli, 185 36, Piraeus, Greece
For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
Macro revision 14

Lloyd's Register LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

KATRADIS VEP S.A.
11, Psaron Street
186 48, Drapetsona
Greece

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standard:

BS EN ISO 9001:2008

The Quality Management System is applicable to:

Fabrication of wire ropes and wire rope slings. Sales of wire ropes, wire rope slings, chains, relevant marine accessories, fixed deck equipment, moving and marking buoys, light towers, antipollution materials, safety ladders, fenders and bollards for ports.

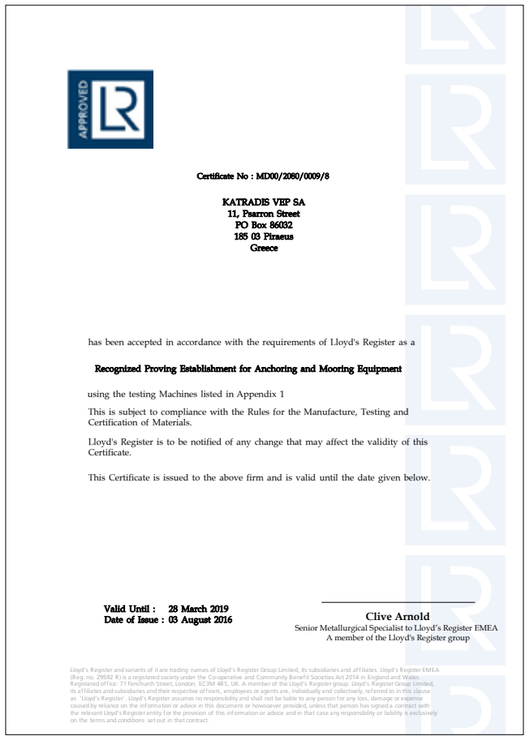
Approval
Certificate No: PIR0362325

Original Approval: 07August 2006
Current Certificate: 22 August 2015
Certificate Expiry: 21 August 2018

Issued by: Hellenic Lloyd's S. A. for and on behalf of Lloyd's Register Quality Assurance Limited

UKAS
001

87, Akti Miaouli, 185 36, Piraeus, Greece
For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
Macro revision 14



APPROVED

Certificate No : MD00/2080/0009/8

KATRADIS VEP SA
11, Psarron Street
PO Box 86032
185 03 Piraeus
Greece

has been accepted in accordance with the requirements of Lloyd's Register as a

Recognized Proving Establishment for Anchoring and Mooring Equipment

using the testing Machines listed in Appendix 1

This is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above firm and is valid until the date given below.

Valid Until : 28 March 2019
Date of Issue : 03 August 2016

Clive Arnold
Senior Metallurgical Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

EURO CERT

EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.

CERTIFICATE OF CONFORMITY

FULLNESS EXAMINATION OF TECHNICAL FILE

Certificate No.	:	MAR.0001
Issue Date	:	08/12/2017
Expiry Date	:	07/12/2022
Applicant (Name & Address)	:	KATRADIS VEP SA 11, PSARON STR., 186 48 PIRAEUS / GREECE
Manufacturer (Name & Address)	:	KATRADIS VEP SA 11, PSARON STR., 186 48 PIRAEUS / GREECE
TCF No.	:	TCF-SLINGS
Product Description Identification	:	STEEL WIRE ROPE SLINGS FOR GENERAL LIFTING SERVICE • SOCKETS BOTH ENDS • TURN BACK LOOP WITH FERRULE SECURED SOFT EYE TERMINATIONS • TURN BACK LOOP WITH FERRULE SECURED HARD EYE TERMINATIONS (THIMBLES) • TURN BACK LOOP WITH FERRULE SECURED SOFT EYE WITH STIRRUP • HAND SPLICED • FLEMISH EYE SPLICES CORE: FC/IWRC SIZES: 2mm-80mm
Directive(s)	:	Machinery Directive 2006/42/EC
Standard(s)	:	EN 13414-1:2009, ASME B30.9

This is to certify that, upon the relevant application of the above-mentioned company, EUROCERT as Third-Party Authority has reviewed the Technical Construction File of the described product which found to fulfill the basic health and safety prerequisites of above mentioned Directive(s).

Note:

- *The manufacturer should issue a Declaration of Conformity according to the basic requirements of the applicable and relevant directives.*
- *The CE marking can be affixed on the above mentioned product with the manufacturer's responsibility, if all relevant and applicable directives are complied with.*
- *All modifications to the Technical File should be first submitted to the Third Party Inspection Authority to ensure further validity of this attestation.*
- *This certificate is valid only for the product and configuration described and in conjunction with the technical data detailed above.*

Please check the validity of the certificate from our website using the password [redacted]

Third Party Authority Stamp

On Behalf of EUROCERT
Georgios Sifonios
Director of Development

89, CHLOIS STR. & LIKOVRISSOS, 144 52 METAMORFOSI, ATHENS, GREECE
Tel.: ++30 210 62.52.495, 30 210 62.53.927 - Fax: ++30 210 62.03.018
Internet site: www.eurocert.gr - e-mail: eurocert@otenet.gr

Lloyd's Register

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Katradis Marine Ropes Industry S.A 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
PLACE OF PRODUCTION	69th KM National Road Athens Lamia Greece
DESCRIPTION	Polyamide (Nylon) ropes
TYPE	Polyamide (Nylon) Ropes 8 strand (8x2), 12 strand (12x1) and 24 strand (12x2)
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	DIN EN ISO 1140:2012 , Polyamide fibre ropes EN ISO9554:2010: General fibre ropes specification EN ISO 2307:2011: Fibre ropes – Determination of certain physical and mechanical properties
Certificate No.	13/00082
Issue Date	5 August 2013
Expiry Date	4 August 2020
Sheet	1 of 2

M.Jegia
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

Lloyd's Register EMEA
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF

Lloyd's Register

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Katradis Marine Ropes Industry SA 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
PLACE OF PRODUCTION	69th KM National Road Athens Lamia Greece
DESCRIPTION	NikaCord® (Mixed Polyolefin yarn)
TYPE	NikaCord® 8 strand (4x2);
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	EN ISO 10572:2009 – Mixed Polyolefin fibre ropes EN ISO 9554:2010 – Fibre ropes - General EN ISO 2307:2011 – Fibre ropes – Determination of certain physical and mechanical properties
Certificate No.	14/ 00082
Issue Date	19 November 2014
Expiry Date	18 November 2019
Sheet	1 of 2

M. Jegia
Global Technology Centre
Lloyd's Register EMEA

Lloyd's Register EMEA
Southampton Boldrewood Innovation Campus,
Burgess Road, Southampton, SO16 7QF

Lloyd's Register

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Katradis Marine Ropes Industry S.A 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
PLACE OF PRODUCTION	69th KM National Road Athens Lamia Greece
DESCRIPTION	Improved Mixed Nikastex® rope (Polyolefin and Polyester yarn)
TYPE	Mixed polyolefin/polyester ropes: 8 strand (8x2), 12 strand (12x1) and 24 strand (12x2)
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	DIN EN ISO 10572:2014-04: Mixed polyolefin fibre ropes ISO 9554-2010: General fibre ropes specification EN ISO 9554-2010: General fibre ropes specification EN ISO 10556-2010: Fibre ropes of polyester/polyolefin dual fibre EN ISO 2307-2011: Fibre ropes – Determination of certain physical and mechanical properties
Certificate No.	13/00081
Issue Date	5 August 2013
Expiry Date	4 August 2020
Sheet	1 of 2

M. Jegia
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

Lloyd's Register EMEA
Southampton Boldrewood Innovation Campus, Burgess Road, Southampton, SO16 7QF

Lloyd's Register

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Katradis Marine Ropes Industry S.A 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
PLACE OF PRODUCTION	69th KM National Road Athens Lamia Greece
DESCRIPTION	Ultra Mixed Nika6tex6® ropes (Polyolefin and Polyester yarn)
TYPE	Ultra Mixed Nika6tex6® 8 strand (4x2); Ultra Mixed Nika6tex6® 12 strand (12x1); Ultra Mixed Nika6tex6® 24 strand (12x2);
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	EN ISO 10572:2009 – Mixed Polyolefin fibre ropes EN IS 10566:2010 – Fibre ropes of polyester/polyolefin dual fibre ISO 9554:2010 – Fibre ropes – General EN ISO 2307:2011 – Fibre ropes –Determination of certain physical and mechanical properties
Certificate No.	14/00095
Issue Date	19 November 2014
Expiry Date	18 November 2019
Sheet	1 of 2

M. Jegia
Global Technology Centre
Lloyd's Register EMEA

Lloyd's Register EMEA
Southampton Boldrewood Innovation Campus,
Burgess Road, Southampton, SO16 7QF

Lloyd's Register LRQA

Certificate of Approval

This is to certify that the Management System of:

KATRADIS MARINE ROPES INDUSTRY S.A.

69th klm New National Road Athinon Lamias, 322 00 Thiva, Greece

has been approved by LRQA to the following standards:

BS EN ISO 14001:2015

Gilles Bessiere
Issued By: Hellenic Lloyd's S.A. for and on behalf of: Lloyd's Register Quality Assurance Ltd

Current Issue Date: 24 August 2017
Expiry Date: 23 August 2020
Certificate Identity Number: 10032763

Original Approvals:
ISO 14001 – 24 August 2017

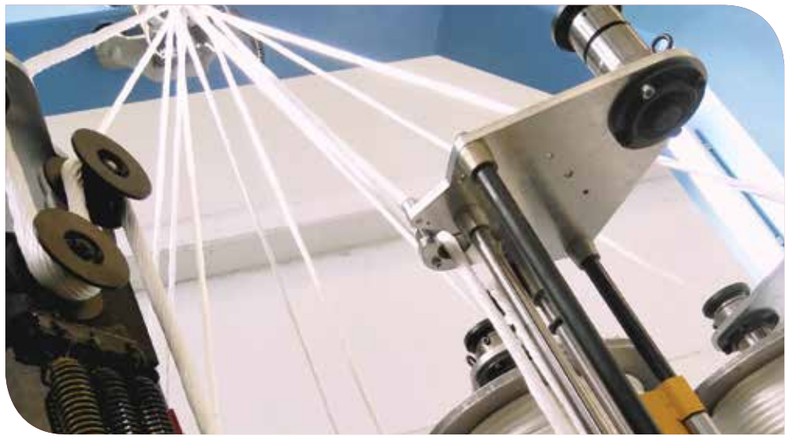
Approval Number(s): ISO 14001 – 00010878

The scope of this approval is applicable to:
Design, production and sales of synthetic ropes and anodes.Trading of anchors, anchor chains and their accessories.

UKAS MANAGEMENT SYSTEMS
001

The **KATRADIS GROUP OF COMPANIES** in its continued effort for better customer service and support is pleased to announce that all of its affiliated establishments maintain stocks of KATRADIS products ready for immediate delivery.

Read more: http://www.katradis.com



Pioneers in quality perfection

Established in 1936 in Piraeus, Greece, the Katradis Group of Companies is one of the most prominent organizations in the shipping industry.

Over the years, the Katradis Group has developed expertise in the design, development and manufacture of high quality synthetic mooring ropes, zinc and aluminum anodes. Our wide range of products includes ropes made with UHMWPE, Aramid, LCP (Liquid Crystal Polymer), Polypropylene, Nylon, Polyester and Mixed / Dual Fiber ropes, in single and double braided constructions.

The Katradis Group of Companies also supplies steel wire ropes, anchors and stud link anchor chain cables, container fittings, alloy steel chain slings, wire and synthetic rope lifting slings and lashing webbings, port development equipment, rubber dock fenders, buoys, floating marinas, bollards, oil booms, vessel deck equipment, protective coatings (SHARK Marine Paints) and testing services in our LR Approved Testing Establishment.

KATRADIS

EST. 1936

KATRADIS GROUP OF COMPANIES

We serve worldwide!

With the support of an extensive global network of affiliated establishments, agents, suppliers and representatives, we provide our customers with immediate service around the world.

Katradis Global Network

Africa: Egypt (Alexandria, Port Said, Suez) | South Africa (Durban, Cape Town)
Asia: Singapore (Singapore) | South Korea (all ports) | China (Hong Kong, Shanghai, Qingdao, Zhenjiang & other ports)
Europe: Belgium (Antwerp, Zeebrugge) | Germany (Hamburg) | Netherlands (Rotterdam, Amsterdam) Spain (Algeciras, Cadiz, Las Palmas) |Turkey (all ports) | Bulgaria (Varna) | Greece (all ports) | Cyprus (all ports)
Middle East: U.A.E. (Fujairah, Dubai, Sharjah, Jebel Ali)
North America: Canada (Montreal) USA (Houston, New Orleans, New York, Los Angeles)
Central America: Panama (Panama)
Australia: (Brisbane, Sydney, Melbourne, Adelaide, Fremantle and Darwin)

KATRADIS

EST. 1936

KATRADIS GROUP OF COMPANIES

KATRADIS

EST. 1936

KATRADIS GROUP OF COMPANIES

UHMWPE, Aramid, LCP & Mixed Ropes for LNG / LPG Carriers and Tankers - Steel Wire Ropes - Sacrificial Anodes
Anchors & Anchor Chains - Port Development Equipment - Vessel Deck Equipment

11, Psaron str., 186 48 Piraeus, Greece, T: +30 2104060300 - F: +30 2104626268 & +302104619631, E: info@katradis.com - www.katradis.com