Supplier and service partner for
shipping and shipyards,
on-/ offshore,
industry, handicraft and construction industry

Kloska Group®
www.kloska.com

MOORING ROPES
SPECIAL WIRE ROPES

UKTA marine
Gleistein Ropes The Perfect Line
verope

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Own companies International representative offices Cooperation partners

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You will find additional products in our Kloska Shipping Catalogue, lifting equipment catalogue and in the complete verope catalogue. If you have any further questions in regard to our products, please do not hesitate to contact us. All details as stated in this catalogue comply with the technical standard that is applicable at the date of printing. We reserve the right to make changes due to further technical development.

The Kloska Group

In 1981 the company Uwe Kloska GmbH was founded as a technical supplier in Bremen, today this is the location of the group`s headquarter. Over recent years other companies joined the group, each completing the service portfolio in a different way.
With the start of the nineties, the Kloska Group started to expand stronger. The strategic target to be present at all important maritime locations in Germany was always aimed at consequently. Following the requirements of the growing ship supply market the group started new branches and cooperations in Belgium, The Netherlands, China, Russia, Poland, Spain, Brazil, Singapore, South Africa and United Arab Emirates.

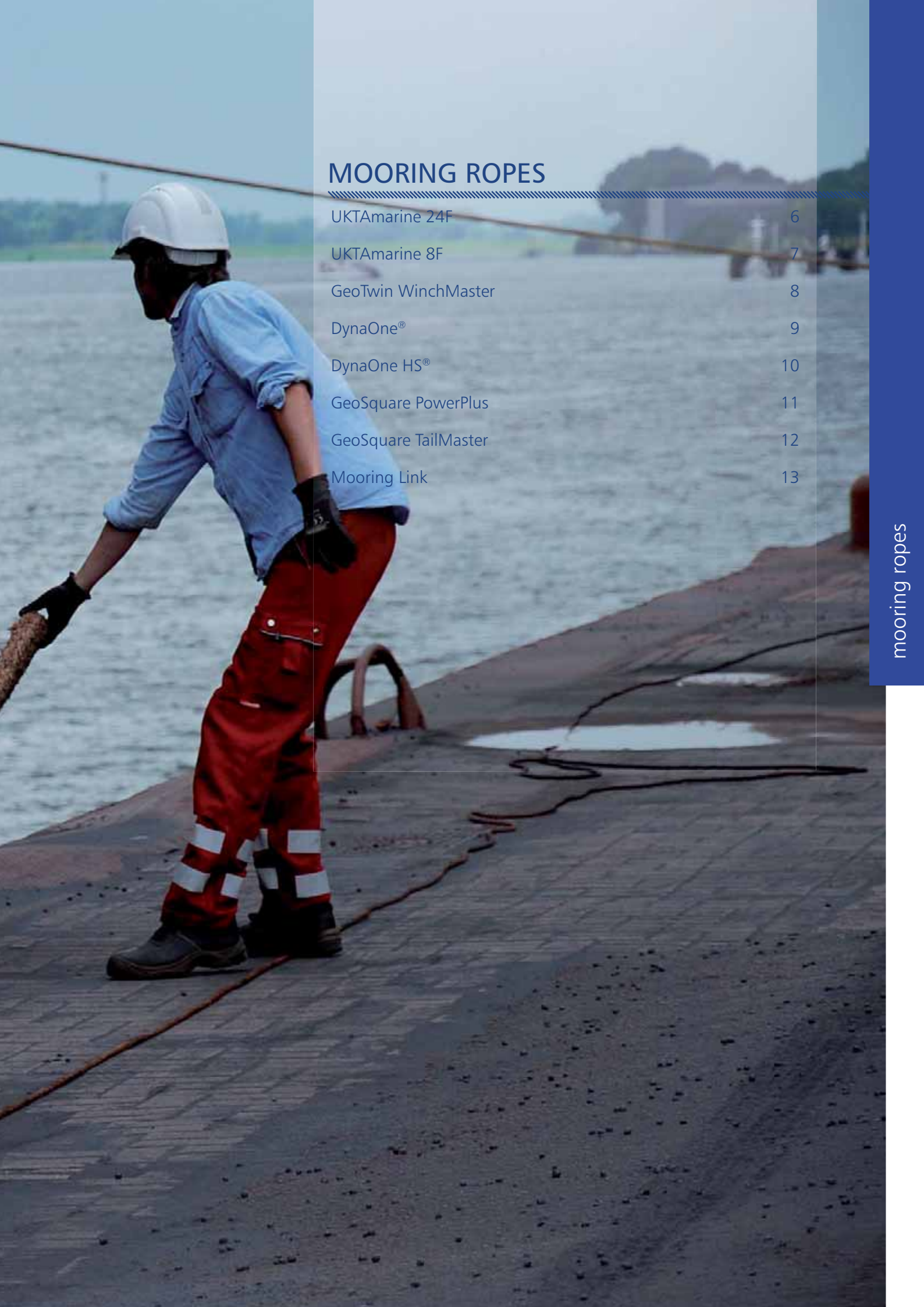
Finally the group´s business activities range from technical supplies for the shipping, on-/offshore, construction, and handicraft industry over diesel engine spare part services combined with own in-house repair shops, conveyor technology and hydraulics. The group also established catering services and supplies general provisions and stores to ferries, cargo vessels, cruise liners, research vessels and research stations.
We round of our standard services with a large number of attractive specialized services. At our facilities we keep approximately 130.000 different products and items on stock.

Our team of experienced staff members is used to acting customer orientated and serving our clients continuously over long periods of time. We make use of our flexibility and creativity in order to meet all the frequently changing demands of the market.

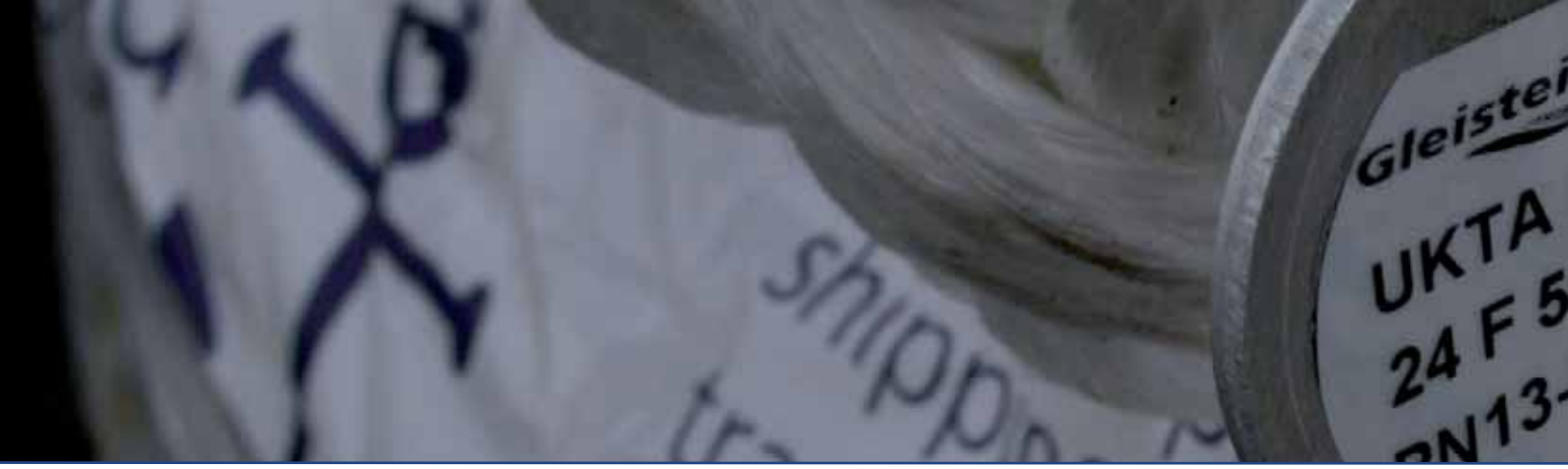
Together with our employees we want to build on the success earned over the past years and lead the Kloska Group into a successful future.

We take opportunities, will be a reliable partner for our customers and will work on our continuous improvement.

Uwe Kloska Nadine Kloska



MOORING ROPES



UKTAmarine 24F

Available exclusively at Kloska: Mooring line UKTAmarine 24 F is our buoyant all-rounder for all kind of vessels and can be used on any winch. Special 24-plait (12x2) cover made from polyester/polyolefin mix with Geogard Marine Finish for improved abrasion resistance. OCIMF-conforming mooring line for use on tankers. Our allround mooring rope at a very good price / cost ratio.

- Good abrasion resistance
- High tenacity
- Very good UV resistance
- Buoyant
- 220 mtrs coil with PTC protected spliced eyes of 1.8 mtr each

Available on stock in Germany, Singapore and Houston

Technical Facts				
Ø mm	kg / 100 m	kg / 220 m	Bl. linear kN	Circ. in inches
40	71,7	155,5	313,5	5,0
44	93,0	204,6	383,9	5,5
48	117,0	257,4	451,0	6,0
52	128,0	281,6	522,5	6,5
56	156,0	343,2	610,5	7,0
60	177,0	389,4	688,6	7,5
64	207,0	455,4	781,0	8,0
68	243,0	534,6	880,0	8,5
72	264,0	580,8	984,5	9,0
76	302,0	664,4	1089,0	9,5
80	330,0	726,0	1210,0	10,0
84	363,0	799,0	1320,0	10,5
88	400,5	881,0	1463,0	11,0
96	475,0	1045,0	1732,5	12,0

Break load in accordance with DIN EN ISO 2307

UKTAmarine 8F

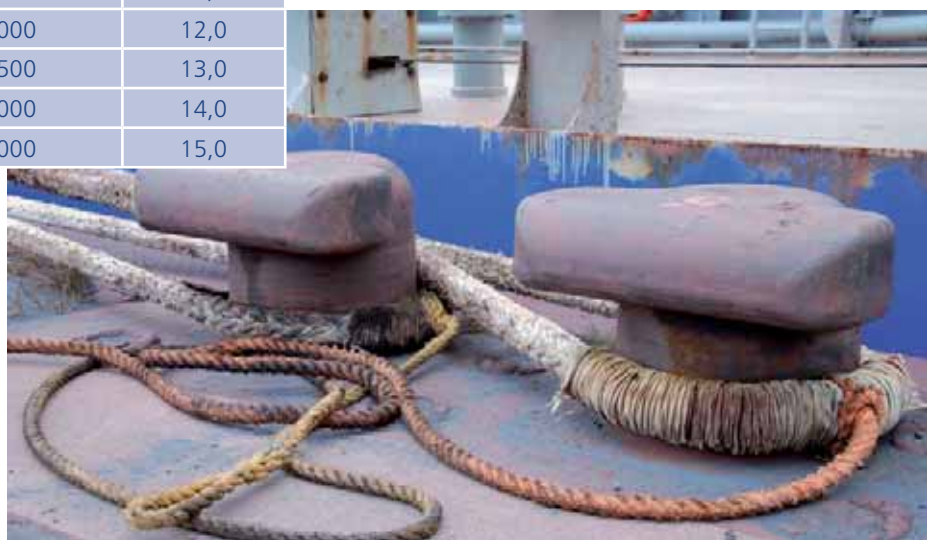
UKTAmarine 8F are produced from blended polymers with special lay for low weight and high strength.

Features
- 25% more strength than conventional polypropylene ropes
- Unaffected by acids and alkalies
- Floats in water, does not absorb water
- Low elongation

Benefits
- Higher strength to weight ratio, facilitating downsizing vis-a-vis polypropylene ropes
- Special blend of raw material enables higher abrasion resistance than normal polypropylene ropes
- 220 mtrs coil with PTC protected spliced eyes of 1.8 mtr each

Available on stock in Germany and Singapore.

Technical Facts			
Ø mm	kg / 220 m	Bl. linear kg	Circ. in inches
32	101	18500	4,0
36	129	23250	4,5
40	158	28000	5,0
44	194	34000	5,5
48	229	39500	6,0
52	268	45500	6,5
56	312	52000	7,0
60	359	59500	7,5
64	407	67550	8,0
72	515	84500	9,0
80	638	104000	10,0
88	772	125000	11,0
96	916	148000	12,0
104	1075	173500	13,0
112	1250	201000	14,0
120	1435	230000	15,0



GeoTwin WinchMaster

The perfect winch line: with dimensional stability, high strength and neutral buoyancy at a very attractive price.

- Manufactured to company norm
- 12-plait core made of special braided polyolefin XS yarns
- Robust cover braid material made of Gleistein Plus yarns (polyester/ polyolefin mix) with Geolan impregnation
- Low elongation and highest tenacity in a compact and robust construction
- Good abrasion resistance
- Very good UV resistance
- Buoyant
- Especially well suited for use with mooring winches
- OCIMF-conforming mooring line for tankers
- 220 mtrs coil with PTC protected spliced eyes of 1.8 mtr each

Technical Facts			
Ø mm	kg / 100 m	Bl. linear kN	Circ. in inches
36	71,0	253,0	4,5
40	83,0	308,0	5,0
44	95,0	412,5	5,5
48	123,0	506,0	6,0
52	134,0	572,0	6,5
56	161,0	660,0	7,0
60	183,0	759,0	7,5
64	205,0	880,0	8,0
68	219,0	990,0	8,5
72	281,0	1.144,0	9,0
Break load in accordance with DIN EN ISO 2307			

Technical Facts				
Ø mm	kg/100 m	Bl. real kN*	Bl. linear kN**	Break length [km]***
20	20,0	290,0	319,0	142,1
22	24,3	350,0	385,0	141,2
24	28,5	410,0	451,0	141,0
26	33,0	470,0	517,0	139,6
28	39,0	550,0	605,0	138,2
30	45,6	650,0	715,0	139,7
32	50,7	720,0	792,0	139,2
34	55,7	810,0	891,0	142,5
36	60,8	880,0	968,0	141,8
38	71,0	960,0	1.056,0	132,5
40	76,0	1.003,0	1.103,3	129,3
44	91,5	1.200,0	1.320,0	128,5
46	99,2	1.300,0	1.430,0	128,4
48	106,5	1.405,0	1.545,5	129,3
52	125,0	1.625,0	1.787,5	127,4
56	145,0	1.855,0	2.040,5	125,4
60	167,0	2.100,0	2.310,0	123,2
64	190,0	2.350,0	2.585,0	121,2
68	210,0	2.650,0	2.915,0	123,7
72	240,0	2.930,0	3.223,0	119,6
80	296,0	3.550,0	3.905,0	117,5
88	358,0	4.220,0	4.642,0	115,5
96	497,0	5.560,0	6.178,0	113,6

*Spliced break load | **Break load in accordance with DIN EN ISO 2307
***Break length in spliced condition

Larger dimensions up to 140 mm Ø on request.

DynaOne®

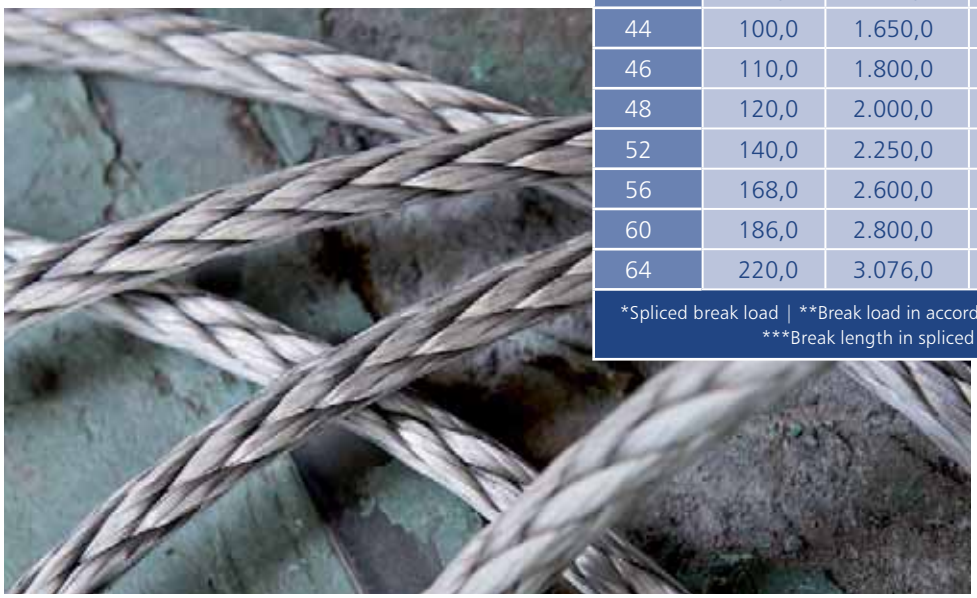
Pure Dyneema® for ultimate performance at lowest weight: As strong as wire rope at just a seventh of the weight.

- 12-strand braid of 100% Dyneema® SK78 fibres
- Geothane coating for improved protection against abrasion and the elements
- Excellent UV resistance
- Attributes similar to wire rope – at just a fraction of the weight
- Buoyant
- A real rope with balanced universal properties and long service life even without a protective cover.
- Mooring lines made from Dyneema® should be used in combination with stretchers (mooring tails)

DynaOne HS®

Optimised exploitation of materials for enhanced performance: Heat set brings out the best of Dyneema®.

- 12-strand braid of 100% Dyneema® SK78 fibres
- Heat set for greater strength and minimised elongation
- Geothane coating for improved protection against abrasion and the elements
- Excellent UV resistance
- Attributes similar to wire rope – at just a fraction of the weight
- Buoyant
- Heat set process provides rope with a very stable cross section
- Mooring lines made from Dyneema® should be used in combination with stretchers (mooring tails)



Technical Facts

Ø mm	kg/100 m	Bl. real kN*	Bl. linear kN**	Break length [km]***
20	23,5	430,0	473,0	179,3
22	27,5	505,0	555,5	180,0
24	31,5	575,0	632,5	178,9
26	35,5	665,0	731,5	183,6
28	43,0	740,0	814,0	183,6
30	48,0	815,0	896,5	183,6
32	55,5	890,0	979,0	186,6
34	60,3	1.025,0	1.127,5	182,6
36	66,5	1.100,0	1.210,0	184,3
38	81,0	1.320,0	1.452,0	182,2
40	84,0	1.500,0	1.650,0	178,2
44	100,0	1.650,0	1.815,0	161,7
46	110,0	1.800,0	1.980,0	160,4
48	120,0	2.000,0	2.200,0	163,3
52	140,0	2.250,0	2.475,0	157,5
56	168,0	2.600,0	2.860,0	151,7
60	186,0	2.800,0	3.080,0	147,5
64	220,0	3.076,0	3.383,6	137,0

*Spliced break load | **Break load in accordance with DIN EN ISO 2307
***Break length in spliced condition

GeoSquare PowerPlus

A plus for performance and economy. Integration of the "Plus" fibre mix enables ropes with neutral buoyancy at a great price.

- Manufactured to company norm
- 8-strand square plait (4x2) with inner yarns made of polyolefin and outer yarns of Gleistein Plus yarns, in mottled green/white or goldorange/white tracer teal
- Geolan Marine Finish impregnation for minimised inter-fibre friction, higher break loads and better abrasion protection
- Very good break load and abrasion resistance
- Very good UV resistance and moderate elongation
- Specific gravity approx. 1g/cm^3, neutral buoyancy
- OCIMF-conforming mooring line for tankers
- 220 mtrs coil with PTC protected spliced eyes of 1.8 mtr each

Technical Facts

Ø mm	kg/100 m	Bl. real kN*	Bl. linear kN**	Break length [km]***
36	61,5	235,0	258,5	37,4
40	76,0	287,0	315,7	37,0
44	93,0	350,0	385,0	36,9
48	110,0	414,0	455,4	36,9
52	128,0	479,0	526,9	36,7
56	150,0	558,0	613,8	36,5
60	170,0	629,0	691,9	36,3
64	194,0	714,0	785,4	36,1
68	215,0	789,0	867,9	36,0
72	245,0	899,0	988,9	36,0
80	300,0	1100,0	1210,0	35,9
88	365,0	1332,0	1465,2	35,8
96	435,0	1577,0	1734,7	35,5

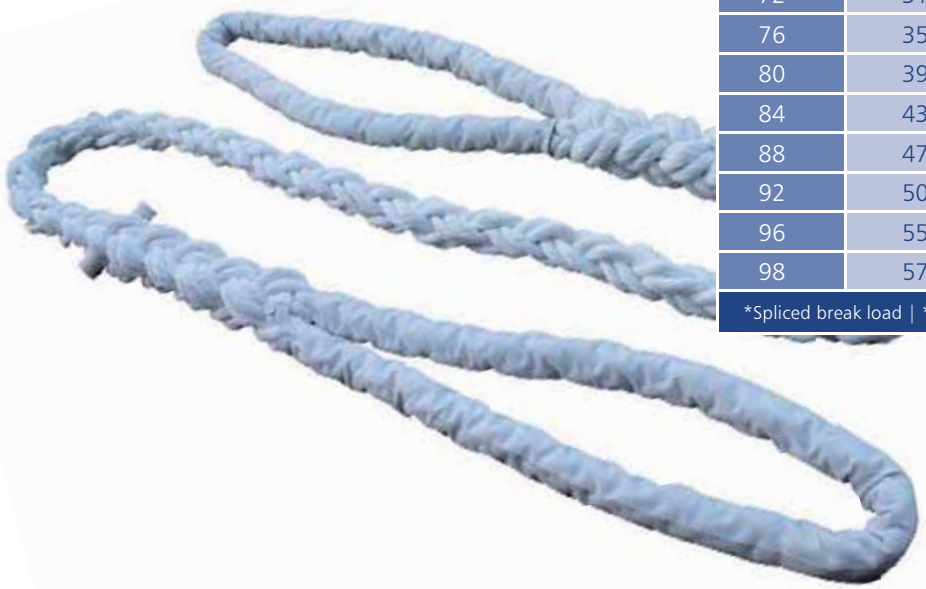
*Spliced break load | **Break load in accordance with DIN EN ISO 2307
***Break length in spliced condition

GeoSquare TailMaster

Stretcher (mooring tail) with outstanding tenacity and very high life expectancy under the toughest conditions with alternating loads.

- 8-strand square plait (4x2) made of combined polyolefin / polyester yarns in which the polyolefin core is completely covered with polyester
- Share of each fibre type is 50%
- Geolan impregnation for improved protection against abrasion and higher tenacity
- Very good shock absorption properties
- Excellent UV resistance and high abrasion resistance
- Does not float
- Excellent for stretcher applications
- OCIMF-conforming mooring tail for tankers
- Available in 11 mtr. with two protected eyes or endless with 22 mtr. circumference

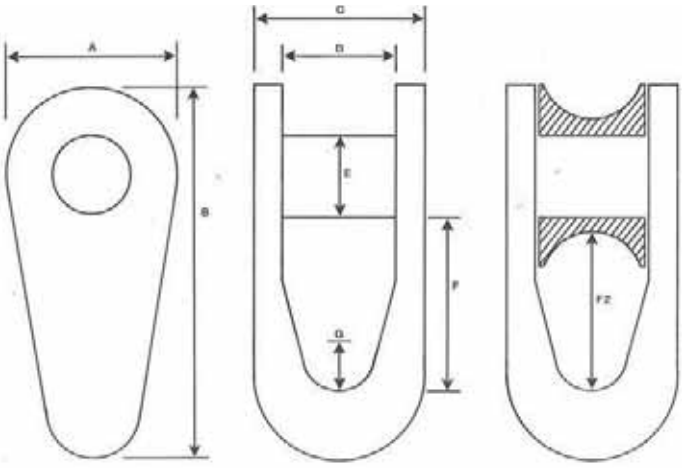
Technical Facts			
1,9 % Elongation at 10% of break load			
Ø mm	kg / 100 m	Bl. linear kN**	Bl. real kN*
32	66,0	214,5	195
40	103,0	366,3	333
44	123,0	437,8	398
48	147,0	514,8	468
52	171,0	597,3	543
56	199,0	695,2	632
60	227,0	788,7	717
64	255,0	891,0	810
68	287,0	1.002,1	911
72	318,0	1.113,2	1.012,0
76	354,0	1.237,5	1.125,0
80	394,0	1.371,7	1.247,0
84	438,0	1.520,2	1.382,0
88	470,0	1.639,0	1.490,0
92	501,0	1.749,0	1.590,0
96	553,0	1.933,8	1.758,0
98	577,0	1.995,4	1.814,0
*Spliced break load | **Break load in accordance with DIN EN ISO 2307			



Mooring Link

The mooring link is made from the best quality stainless steel and serves as the connection between a steel wire mooring rope and a fibre mooring tail.With it's sleek design, easy maintenance and handy operation it has become the first choice for tankers and tug boats.

- Endesored by OCIMF
- Stainless steel
- Compact and extremely durable



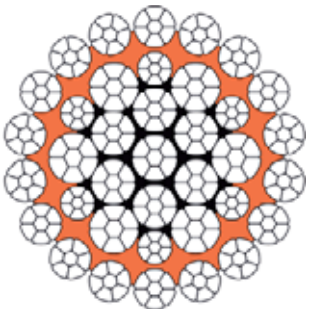
Technical Facts

	120 t	165 t
A	134 mm	150 mm
B	283 mm	325 mm
C	127 mm	165 mm
D	100 mm	120 mm
E	64 mm	75 mm
F	134 mm	150 mm
F2	124 mm	138 mm
G	32 mm	34 mm
MBL	120 t	165 t
Weight	15,4 kg	24,8 kg

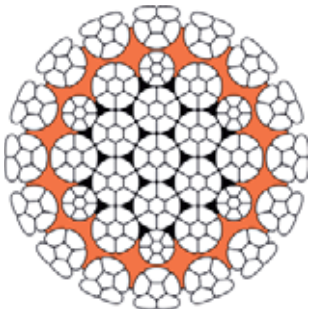
SPECIAL WIRE ROPES

verope rely on Kloska Group www.kloska.com

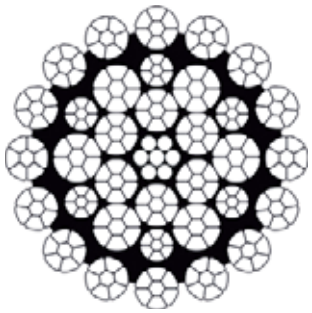
verope AG is a joint venture of Pierre Verreet, founder and managing director of verope AG, and Kiswire Ltd. (South Korea).
In 2007 began the very successful partnership between verope AG and the Kloska Group for the industrial industry sector and for the maritime business. It is the concept of verope AG to offer special wire ropes which are both – high quality and cost-effective.
Leading international crane manufacturers have tested the ropes extensively and use them as original equipment. Another advantage for end customers is the high availability from stock in Germany, Singapore and Houston and the short delivery time for direct deliveries on board of the vessels.



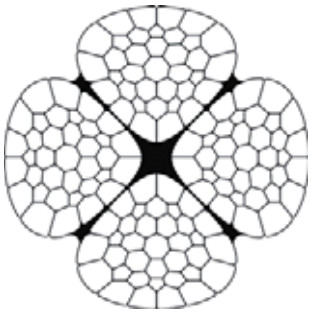
verotop P is a rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.



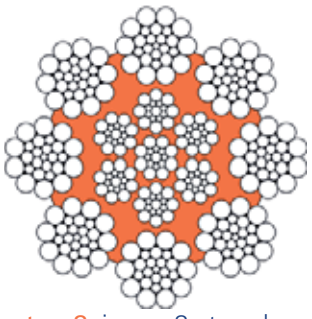
verotop XP is a rotary swaged rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.



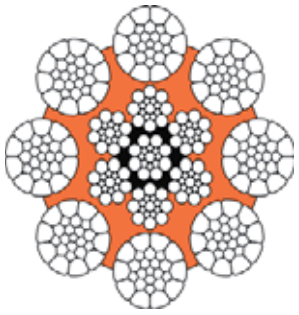
verotop E is a flexible rotation-resistant rope with compacted outer strands.



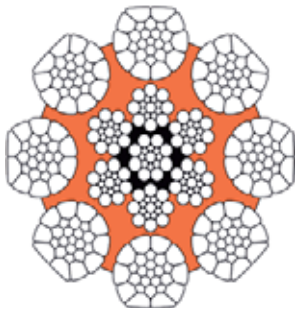
vero 4 is a 4-strand rotation-resistant rope with compacted strands.



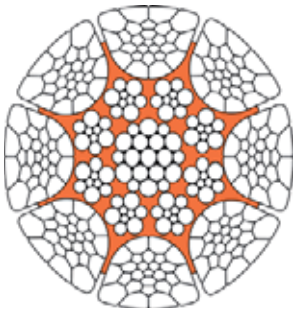
verostar 8 is an 8-strand, non-rotation resistant rope with conventional strands and a rope core covered with a plastic layer.



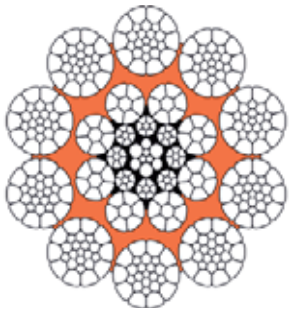
veropro 8 is an 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



veropower 8 is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



veropro 10 is a very flexible 10-strand, non-rotation resistant rope with compacted strands and a rope core covered with a plastic layer.

All ropes are fully lubricated and galvanized. All ropes are supplied with a DNV GL third party certificate as a standard, other third party certificates like LR, BV, ABS, KR, etc. are available on demand.

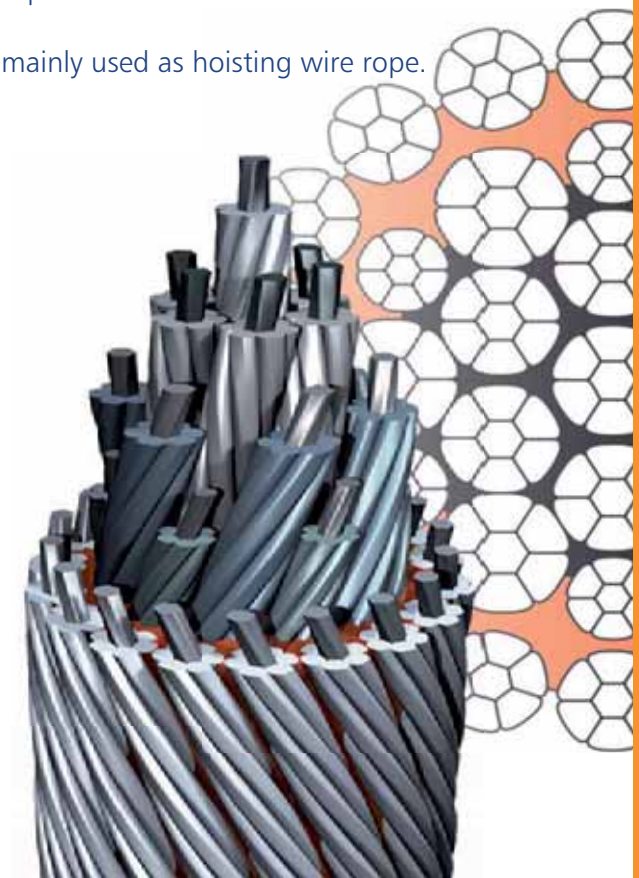
Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
25	3.046	590,0	60.2	634,7	64.7
26	3.294	638,1	65.1	686,5	70.0
28	3.821	740,1	75.5	796,2	81.2
30	4.386	849,6	86.6	914,0	93.2
32	4.990	966,6	98.6	1.040	106.0
33	5.307	1.028	104.8	1.106	112.8
34	5.634	1.091	111.3	1.174	119.7
36	6.316	1.223	124.7	1.316	134.2
38	7.037	1.363	139.0	1.466	149.5
40	7.797	1.510	154.0	1.625	165.7
42	8.597	1.665	169.8	1.791	182.7
44	9.435	1.827	186.4	1.966	200.5
46	10.31	1.997	203.7	2.149	219.1
48	11.23	2.175	221.8	2.340	238.6
50	12.18	2.360	240.6	2.539	258.9

		1960		2060	
mm	kg/m	kN	t	kN	t
52	13.18	2.485	253.4	2.613	266.4
54	14.21	2.684	273.7	2.822	287.8
56	15.28	2.908	296.5	3.058	311.8
58	16.39	3.098	315.9	3.258	332.2
60	17.54	3.333	339.9	3.505	357.4
62	18.73	3.546	358.6	3.698	377.1
64	19.96	3.803	384.9	3.969	404.7
66	21.23	4.041	412.0	4.249	433.3
68	22.53	4.251	433.5	4.470	455.8
70	23.88	4.535	462.5	4.769	486.3
72	25.26	4.809	490.4	5.057	515.7
74	26.69	5.064	516.4	5.325	543.0
76	28.15	5.106	520.6	5.369	547.5
78	29.65	5.398	550.4	5.676	578.8
80	31.19	5.651	576.2	5.942	605.9
82	32.77	5.887	600.3	6.190	631.2
84	34.39	6.126	624.7	6.442	656.9
86	36.04	6.364	648.9	6.692	682.4
88	37.74	6.774	690.7	7.123	726.3
90	39.47	7.042	718.1	7.405	755.1

verotop P

verotop P is a rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.

- verotop P has a very high breaking strength.
- verotop P provides a very stable rope structure and achieves excellent bending fatigue results.
- verotop P offers excellent crushing and very good abrasion resistance.
- verotop P possesses perfect spooling behavior on multilayer drum.
- verotop P can be used either with or without swivel.
- verotop P is a category 1 rotation-resistant rope in accordance with ASTM A1023.
- mainly used as hoisting wire rope.

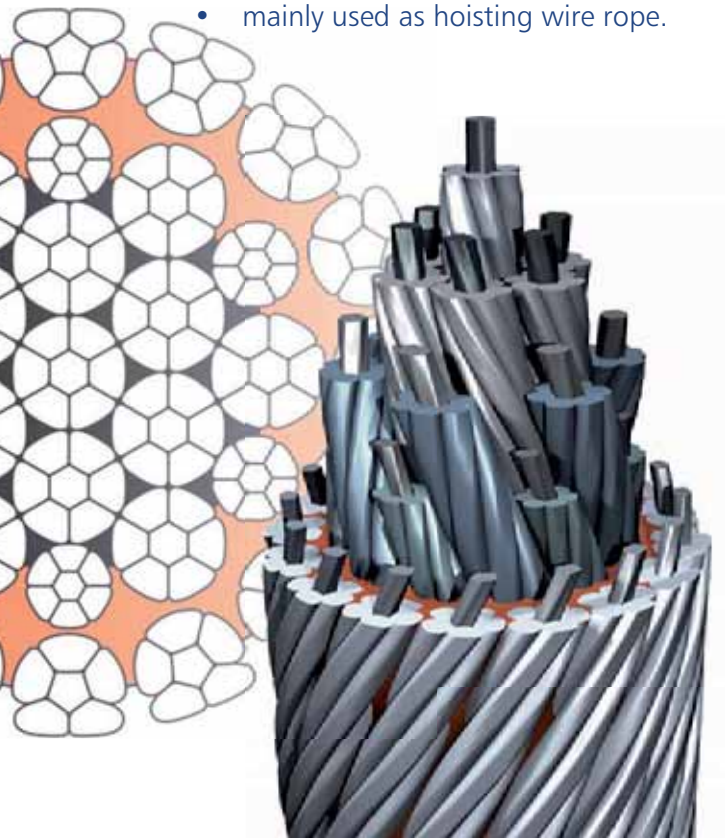


verotop XP

verotop XP is a rotary swaged rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.

- verotop XP is the strongest of all our rotation-resistant ropes.
- verotop XP has a very stable rope structure and achieves good bending fatigue results.
- verotop XP offers superior crushing resistance and best resistance to abrasion.
- verotop XP possesses perfect spooling behavior on multilayer drum.
- verotop XP can be used either with or without swivel.
- verotop XP is a category 1 rotation-resistant rope in accordance with ASTM A1023.
- mainly used as hoisting wire rope.

Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
20	2.001	389,9	39.8	424,7	43.3
21	2.206	429,9	43.8	468,2	47.7
22	2.421	471,8	48.1	513,8	52.4
23	2.646	515,7	52.6	561,6	57.3
24	2.882	561,5	57.3	611,5	62.4
25	3.127	609,3	62.1	663,5	67.7
26	3.382	659,0	67.2	717,7	73.2
27	3.647	710,6	72.5	773,9	78.9
28	3.922	764,3	77.9	832,3	84.9
29	4.207	819,8	83.6	892,8	91.0
30	4.503	877,3	89.5	955,5	97.4
31	4.808	936,8	95.5	1.020	104.0
32	5.123	998,2	101.8	1.087	110.9
33	5.448	1.062	108.3	1.156	117.9
34	5.783	1.127	114.9	1.227	125.1
35	6.128	1.194	121.8	1.301	132.6
36	6.484	1.263	128.8	1.376	140.3
38	7.224	1.408	143.5	1.533	156.3
40	8.004	1.560	159.0	1.699	173.2
42	8.825	1.720	175.3	1.873	191.0
44	9.685	1.887	192.4	2.055	209.6
45	10.13	1.974	201.3	2.150	219.2
46	10.59	2.063	210.3	2.246	229.1
48	11.53	2.246	229.0	2.446	249.4

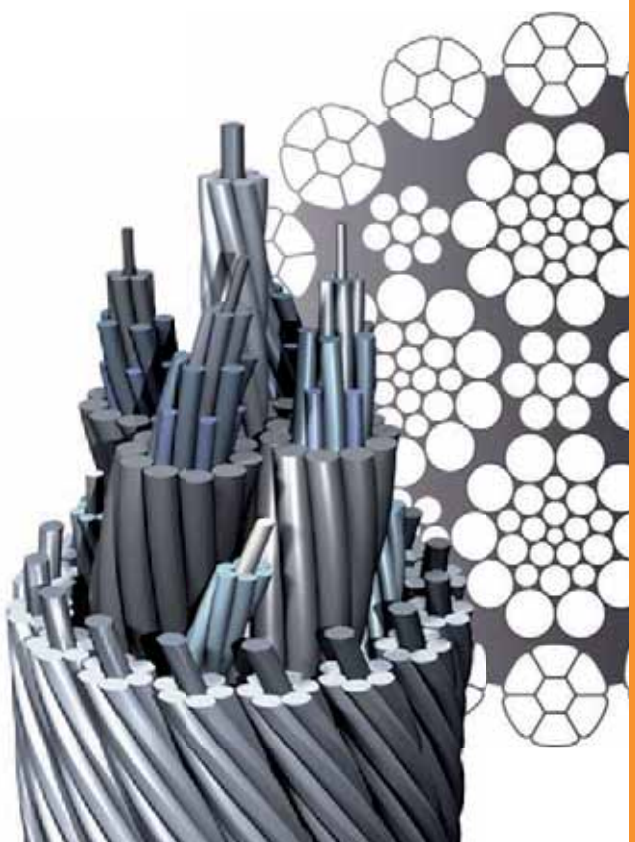


Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
8	0.305	55,2	5.6	60,3	6.1
9	0.387	69,8	7.1	76,3	7.8
10	0.477	86,2	8.8	94,2	9.6
11	0.577	104,3	10.6	113,9	11.6
12	0.687	124,1	12.7	135,6	13.8
13	0.806	145,7	14.9	159,1	16.2
14	0.935	169,0	17.2	184,6	18.8
15	1.074	194,0	19.8	211,9	21.6
16	1.222	220,7	22.5	241,1	24.6
18	1.546	279,3	28.5	305,1	31.1
19	1.723	311,2	31.7	340,0	34.7
20	1.909	344,8	35.2	376,7	38.4
22	2.310	417,2	42.5	455,8	46.5
23	2.524	456,0	46.5	498,2	50.8
24	2.749	496,5	50.6	542,4	55.3
25	2.983	538,8	54.9	588,6	60.0
26	3.226	582,7	59.4	636,6	64.9
27	3.479	628,4	64.1	686,5	70.0
28	3.741	675,8	68.9	738,3	75.3
29	4.013	725,0	73.9	792,0	80.8
30	4.295	775,8	79.1	847,5	86.4
32	4.887	882,7	90.0	964,3	98.3
34	5.517	996,5	101.6	1.089	111.0
35	5.846	1.056	107.7	1.154	117.6
36	6.185	1.117	113.9	1.220	124.5
38	6.891	1.245	126.9	1.360	138.7
40	7.635	1.379	140.6	1.507	153.6

verotop E

verotop E is a flexible rotation-resistant rope with compacted outer strands.

- verotop E has a high breaking strength.
- verotop E achieves very good bending fatigue results.
- verotop E offers great resistance to crushing and abrasion.
- verotop E possesses perfect spooling behavior on multilayer drum.
- verotop E can be used either with or without swivel.
- verotop E is a category 1 rotation-resistant rope in accordance with ASTM A1023.
- mainly used as hoisting wire rope.

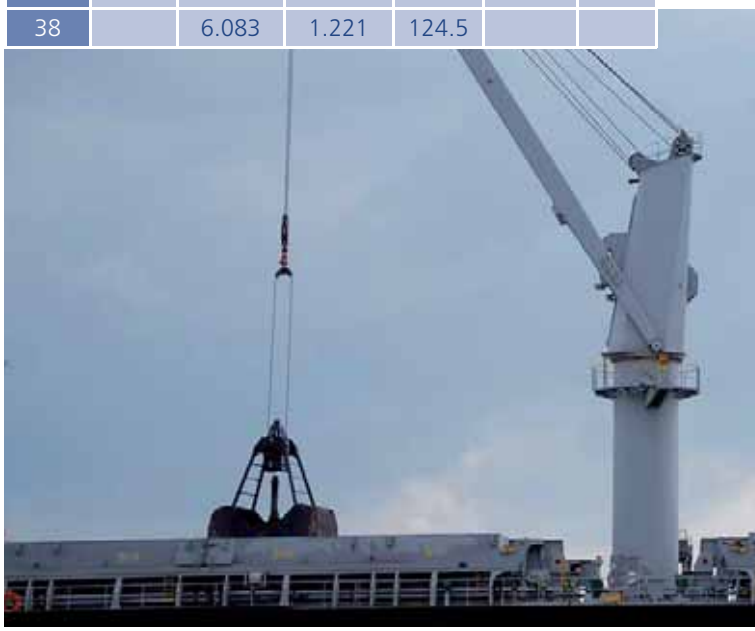


vero 4

vero 4 is a 4-strand rotation-resistant rope with compacted strands.

- vero 4 has a high breaking strength.
- vero 4 is a very robust rope construction.
- vero 4 offers excellent resistance to crushing and abrasion.
- vero 4 may not be used with a swivel.
- mainly used as hoisting wire rope.

Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm	inch	kg/m	kN	t	kN	t
12		0.607	125,9	12.8	137,2	14.0
13		0.712	147,7	15.1	161,0	16.4
14		0.826	171,3	17.5	186,7	19.0
15		0.948	196,7	20.1	214,4	21.9
16	5/8	1.078	223,8	22.8	243,9	24.9
18		1.365	283,2	28.9	308,7	31.5
19	3/4	1.521	315,6	32.2	343,9	35.1
20		1.685	349,7	35.7	381,1	38.9
22		2.039	423,1	43.1	461,1	47.0
24		2.426	503,5	51.3	548,8	56.0
25		2.633	546,4	55.7	595,4	60.7
26		2.848	591,0	60.3	644,0	65.7
27		3.071	637,3	65.0	694,5	70.8
28		3.303	685,4	69.9	746,9	76.2
29		3.543	735,2	75.0	801,2	81.7
30		3.791	786,8	80.2	857,4	87.4
31		4.048	840,1	85.7	915,6	93.4
32	1-1/4	4.314	895,2	91.3	975,6	99.5
33		4.587	952,0	97.1	1.038	105.8
34		4.870	1.011	103.1	1.101	112.3
35	1-3/8	5.160	1.071	109.2	1.167	119.0
36		5.459	1.133	115.5	1.235	125.9
38		6.083	1.221	124.5		



Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1770		1960	
mm	kg/m	kN	t	kN	t
18	1.397	242,3	24.7	268,3	27.4
19	1.557	270,0	27.5	299,0	30.5
20	1.725	299,2	30.5	331,3	33.8
21	1.902	329,8	33.6	365,2	37.2
22	2.087	362,0	36.9	400,9	40.9
23	2.281	395,7	40.3	438,1	44.7
24	2.484	430,8	43.9	477,1	48.6
25	2.695	467,5	47.7	517,6	52.8
26	2.915	505,6	51.6	559,9	57.1
27	3.143	545,2	55.6	603,8	61.6
28	3.380	586,4	59.8	649,3	66.2
29	3.626	629,0	64.1	696,5	71.0
30	3.881	673,1	68.6	745,4	76.0
31	4.144	718,8	73.3	795,9	81.2
32	4.415	765,9	78.1	848,1	86.5
33	4.696	814,5	83.1	901,9	92.0
34	4.984	864,6	88.2	957,4	97.6
35	5.282	916,2	93.4	1.015	103.5
36	5.588	969,3	98.8	1.073	109.5
38	6.226	1.080	110.1	1.196	122.0
40	6.899	1.197	122.0	1.325	135.1
42	7.606	1.319	134.5	1.461	149.0
44	8.348	1.448	147.7	1.603	163.5
45	8.731	1.515	154.4	1.677	171.0
46	9.124	1.583	161.4	1.753	178.7
48	9.934	1.723	175.7	1.908	194.6
50	10.78	1.870	190.7	2.071	211.1
52	11.66	2.022	206.2	2.239	228.4
54	12.57	2.181	222.4	2.415	246.3
56	13.52	2.346	239.2	2.597	264.9
58	14.51	2.516	256.6	2.786	284.1
60	15.52	2.693	274.6	2.982	304.0

verostar8

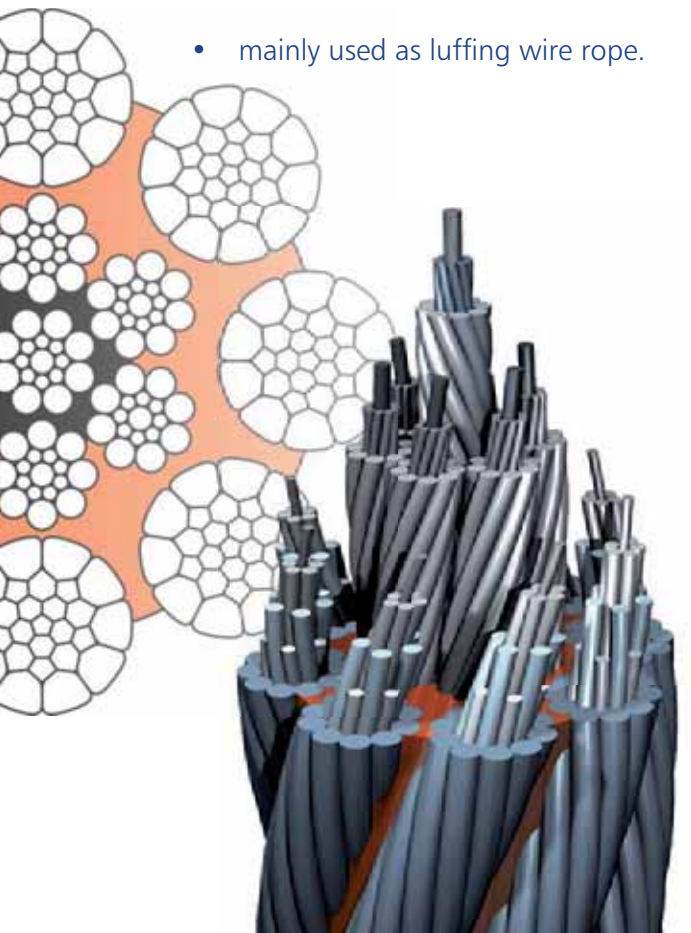
verostar 8 is an 8-strand, non-rotation resistant rope with conventional strands and a rope core covered with a plastic layer.

- verostar 8 has a high breaking strength.
- verostar 8 has a very stable rope structure and achieves good bending fatigue results.
- verostar 8 achieves best service life in reeving systems with single layer drums.
- verostar 8 may not be used with a swivel.
- mainly used as luffing wire rope.

veropro 8

veropro 8 is a 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.

- veropro 8 has a very high breaking strength.
- veropro 8 has a very stable rope structure and achieves excellent bending fatigue results.
- veropro 8 offers excellent resistance to crushing and abrasion.
- veropro 8 possesses perfect spooling behavior on multilayer drum.
- veropro 8 may not be used with a swivel.
- mainly used as luffing wire rope.



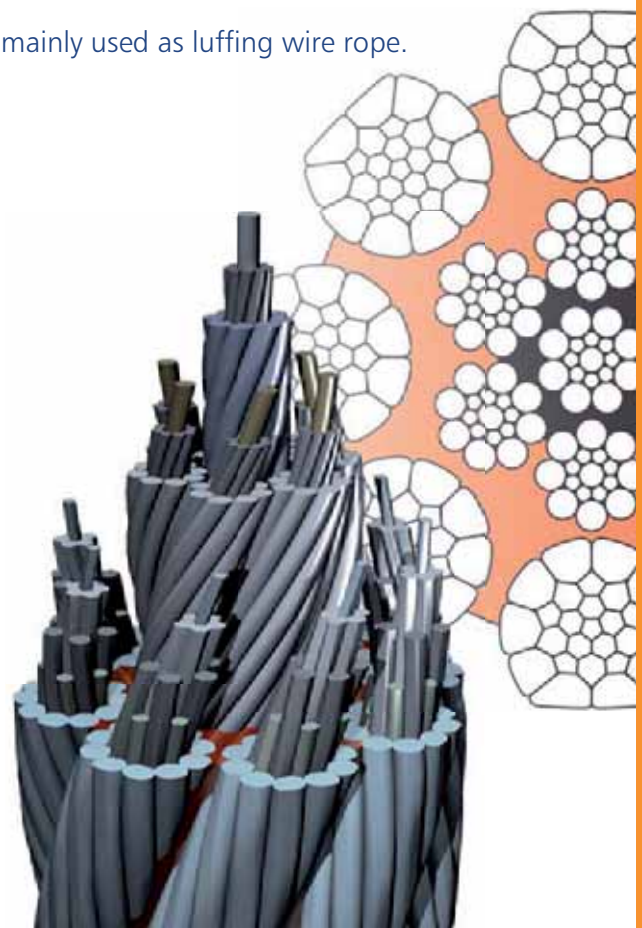
Nominal rope diameter	Approx mass	Minimum breaking force					
		Rope grade					
		1770		1960		2160	
mm	kg/m	kN	t	kN	t	kN	t
12	0.648	118,7	12.1	130,7	13.3	139,9	14.3
13	0.760	139,3	14.2	153,3	15.6	164,2	16.7
14	0.882	161,5	16.5	177,8	18.1	190,4	19.4
15	1.012	185,4	18.9	204,1	20.8	218,6	22.3
16	1.152	210,9	21.5	232,3	23.7	248,7	25.4
17	1.300	238,1	24.3	262,2	26.7	280,8	28.6
18	1.457	267,0	27.2	294,0	30.0	314,8	32.1
19	1.624	297,5	30.3	327,5	33.4	350,8	35.8
20	1.799	329,6	33.6	362,9	37.0	388,7	39.6
21	1.984	363,4	37.1	400,1	40.8	428,5	43.7
22	2.177	398,8	40.7	439,1	44.8	470,3	48.0
23	2.380	435,9	44.4	480,0	48.9	514,0	52.4
24	2.591	474,6	48.4	522,6	53.3	559,7	57.1
25	2.812	515,0	52.5	567,1	57.8	607,3	61.9
26	3.041	557,0	56.8	613,4	62.5	656,8	67.0
27	3.279	600,7	61.3	661,4	67.4	708,3	72.2
28	3.527	646,0	65.9	711,3	72.5	761,8	77.7
29	3.783	693,0	70.7	763,1	77.8	817,2	83.3
30	4.049	741,6	75.6	816,6	83.3	874,5	89.2
31	4.323	791,9	80.7	871,9	88.9	933,8	95.2
32	4.606	843,8	86.0	929,1	94.7	995,0	101.5
33	4.899	897,3	91.5	988,1	100.8	1.058	107.9
34	5.200	952,5	97.1	1.049	107.0	1.123	114.5
35	5.511	1.009	102.9	1.111	113.3	1.190	121.4
36	5.830	1.068	108.9	1.176	119.9	1.259	128.4
38	6.496	1.190	121.3	1.310	133.6	1.403	143.1
40	7.198	1.318	134.4	1.452	148.0	1.555	158.5
42	7.935	1.454	148.2	1.601	163.2	1.714	174.8
44	8.709	1.595	162.7	1.757	179.1	1.881	191.8
45	9.109	1.669	170.2	1.837	187.4	1.968	200.6
46	9.519	1.744	177.8	1.920	195.8	2.056	209.7
48	10.36	1.898	193.6	2.090	213.2	2.239	228.3
50	11.25	2.060	210.1	2.268	231.3	2.429	247.7
52	12.16	2.228	227.2	2.453	250.2	2.627	267.9
54	13.12	2.403	245.0	2.646	269.8	2.833	288.9
56	14.11	2.584	263.5	2.845	290.1		
58	15.13	2.772	282.7	3.052	311.2		
60	16.19	2.966	302.5	3.266	333.1		

Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
12	0.666	134,4	13.7	144,7	14.8
12.7	0.746	150,5	15.3	162,1	16.5
13	0.782	157,7	16.1	169,9	17.3
14	0.907	182,9	18.7	197,0	20.1
15	1.041	210,0	21.4	226,2	23.1
16	1.184	238,9	24.4	257,3	26.2
17	1.337	269,7	27.5	290,5	29.6
18	1.499	302,4	30.8	325,7	33.2
19	1.670	336,9	34.4	362,9	37.0
20	1.851	373,3	38.1	402,1	41.0
21	2.040	411,5	42.0	443,3	45.2
22	2.239	451,7	46.1	486,5	49.6
23	2.448	493,7	50.3	531,7	54.2
24	2.665	537,5	54.8	579,0	59.0
25	2.892	583,3	59.5	628,2	64.1
26	3.128	630,9	64.3	679,5	69.3
27	3.373	680,3	69.4	732,8	74.7
28	3.627	731,6	74.6	788,1	80.4
29	3.891	784,8	80.0	845,4	86.2
30	4.164	839,9	85.6	904,7	92.3
31	4.446	896,8	91.5	966,0	98.5
32	4.738	955,6	97.4	1.029	105.0
33	5.039	1.016	103.6	1.095	111.6
34	5.349	1.079	110.0	1.162	118.5
35	5.668	1.143	116.6	1.231	125.6
36	5.996	1.209	123.3	1.303	132.8
38	6.681	1.348	137.4	1.452	148.0
40	7.403	1.493	152.3	1.608	164.0
42	8.162	1.646	167.9	1.773	180.8
44	8.957	1.807	184.2	1.946	198.4
45	9.369	1.890	192.7	2.036	207.6
46	9.790	1.975	201.4	2.127	216.9
48	10.66	2.150	219.3	2.316	236.2

veropro 8 RS

veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.

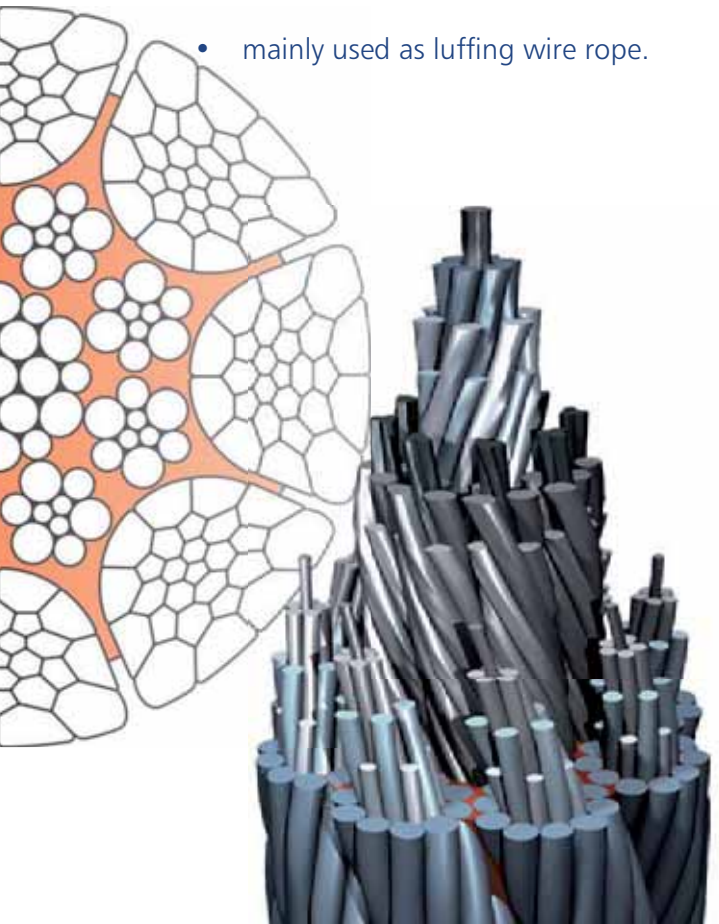
- **veropro 8 RS** has a very high breaking strength.
- **veropro 8 RS** has a very stable rope structure and achieves excellent bending fatigue results.
- **veropro 8 RS** offers superior crushing resistance and best resistance to abrasion.
- **veropro 8 RS** possesses excellent spooling behavior on multilayer drum.
- **veropro 8 RS** may not be used with a swivel.
- mainly used as luffing wire rope.



veropower 8

veropower 8 is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.

- **veropower 8** is the strongest of all non-rotation resistant ropes.
- **veropower 8** has a very stable rope structure and achieves good bending fatigue results.
- **veropower 8** offers superior crushing resistance and excellent resistance to abrasion.
- **veropower 8** possesses perfect spooling behavior on multilayer drum.
- **veropower 8** may not be used with a swivel.
- mainly used as luffing wire rope.



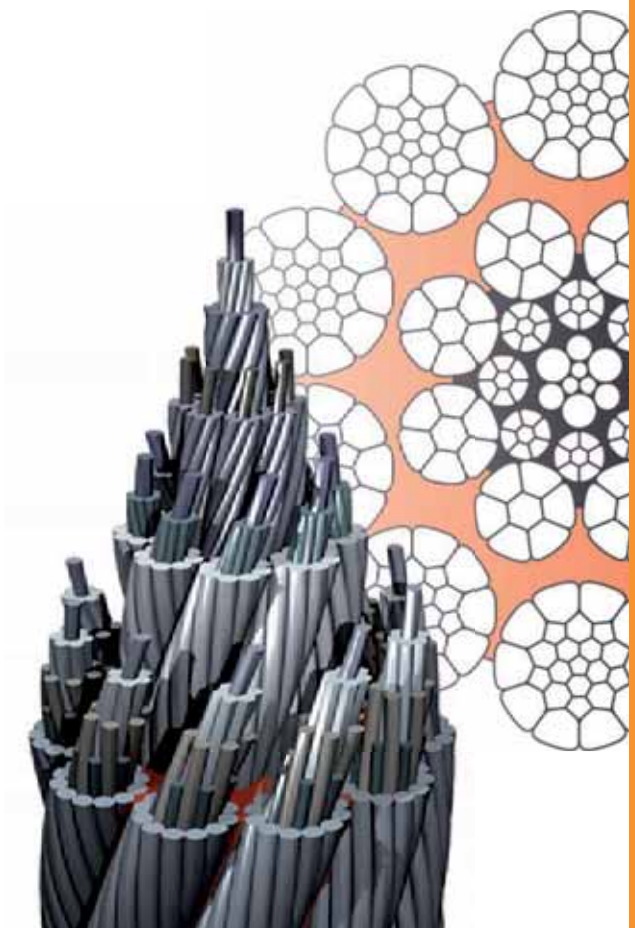
Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
12	0.717	147,4	15.0	159,7	16.3
12.7	0.803	165,1	16.8	178,8	18.2
13	0.842	173,0	17.6	187,4	19.1
14	0.976	200,6	20.5	217,3	22.2
15	1.121	230,3	23.5	249,5	25.4
16	1.275	262,0	26.7	283,9	28.9
17	1.440	295,8	30.2	320,5	32.7
18	1.614	331,6	33.8	359,3	36.6
19	1.798	369,5	37.7	400,3	40.8
20	1.992	409,4	41.7	443,5	45.2
21	2.197	451,3	46.0	489,0	49.9
22	2.411	495,3	50.5	536,7	54.7
23	2.635	541,4	55.2	586,6	59.8
24	2.869	589,5	60.1	638,7	65.1
25	3.113	639,6	65.2	693,0	70.7
26	3.367	691,8	70.5	749,6	76.4
27	3.631	746,1	76.1	808,4	82.4
28	3.905	802,4	81.8	869,3	88.6
29	4.189	860,7	87.8	932,5	95.1
30	4.483	921,1	93.9	998,0	101.8
31	4.787	983,5	100.3	1.066	108.7
32	5.101	1.048	106.9	1.135	115.8
33	5.424	1.115	113.6	1.208	123.1
34	5.758	1.183	120.6	1.282	130.7
35	6.102	1.254	127.8	1.358	138.5
36	6.455	1.326	135.3	1.437	146.5
38	7.193	1.478	150.7	1.601	163.3
40	7.970	1.637	167.0	1.774	180.9
42	8.787	1.805	184.1	1.956	199.5
44	9.643	1.981	202.0	2.147	218.9
45	10.09	2.072	211.3	2.245	229.0
46	10.54	2.166	220.8	2.346	239.3
48	11.48	2.358	240.4	2.555	260.5

Nominal rope diameter	Approx mass	Minimum breaking force			
		Rope grade			
		1960		2160	
mm	kg/m	kN	t	kN	t
30	4.152	828,0	84.4	891,6	90.9
32	4.724	942,1	96.1	1.014	103.4
34	5.333	1.063	108.4	1.145	116.8
36	5.979	1.192	121.6	1.284	130.9
38	6.662	1.328	135.5	1.431	145.9
40	7.381	1.472	150.1	1.585	161.6
42	8.138	1.623	165.5	1.748	178.2
44	8.931	1.781	181.6	1.918	195.6
46	9.762	1.947	198.5	2.096	213.8
48	10.63	2.120	216.1	2.283	232.8
50	11.53	2.300	234.5	2.477	252.6
52	12.47	2.488	253.7	2.679	273.2
54	13.45	2.683	273.6	2.889	294.6
56	14.47	2.885	294.2	3.107	316.8
58	15.52	3.095	315.6	3.333	339.8
60	16.61	3.312	337.7	3.566	363.7
62	17.73	3.536	360.6	3.808	388.3
64	18.90	3.768	384.3	4.058	413.8
66	20.10	4.007	408.6	4.315	440.0
68	21.33	4.254	433.8	4.581	467.1
70	22.61	4.508	459.7	4.854	495.0

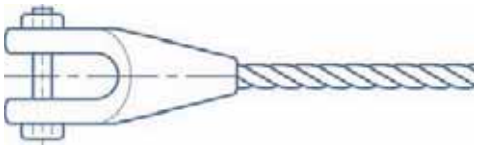
veropro 10

veropro **10** is a very flexible 10-strand, non-rotation resistant rope with compacted strands and a rope core covered with a plastic layer.

- **vero**pro **10** has a very high breaking strength.
- **vero**pro **10** has a very stable rope structure and achieves excellent bending fatigue results.
- **vero**pro **10** offers excellent resistance to crushing and abrasion.
- **vero**pro **10** possesses perfect spooling behavior on multilayer drum.
- **vero**pro **10** may not be used with a swivel.
- mainly used as luffing wire rope.

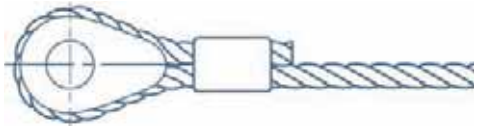


Common rope terminations



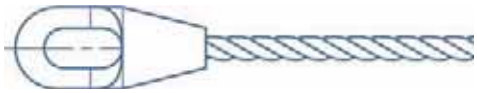
Open spelter socket: Metal or resin socketing

End stop: Either metal-/resin socketing or swaged



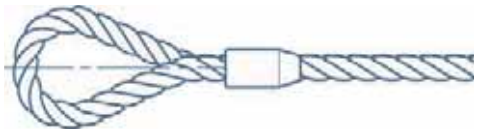
Ferrule-secured solid thimble termination

Threaded socket swaged

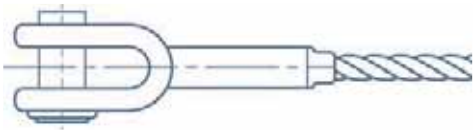


Closed spelter socket: Metal or resin socketing

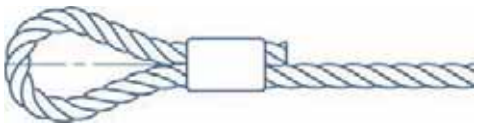
Closed socket swaged



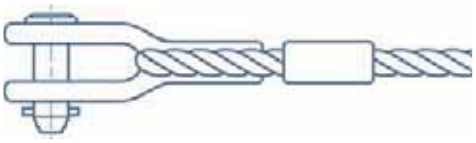
Flemish eye ferrule-secured termination



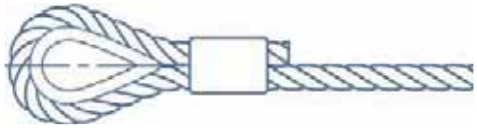
Open socket swaged



Ferrule-secured eye termination



Ferrule-secured open thimble termination



Ferrule-secured thimble termination

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Fon: +49 (0) 421 - 618 02 15
ship@kloska.com

WIRE ROPE IDENT CARD

VESSEL NAME / IMO-NO.: _____

CRANE NO.: _____ CRANE TYPE / SERIAL NO.: _____

DATE: _____ DELIVERY PLACE: _____

THIS INFORMATION YOU WILL FIND ON THE WIREROPE CERTIFICATE!

ACTUAL USED BRAND AND TYPE: _____

TYPE: (HOISTING OR LUFFING WIRE ROPE) _____

DIAMETER OF WIRE ROPE: _____

TOTAL LENGTH: _____

NOMINAL TENSILE STRENGTH: _____
(1770/1960/2160N/qmm)

ACTUAL BREAKING LOAD: _____

TYPE OF LAY / DIRECTION OF LAY: _____

THIS INFORMATION IS NOT MENTIONED ON THE CERTIFICATE!

END CONNECTION OF THE ROPE: -FOR EXAMPLE-
SOLID THIMBLE / OPEN SPELTER SOCKET _____

THE EXACT MEASURES ARE VERY IMPORTANT.

SOLID THIMBLE:

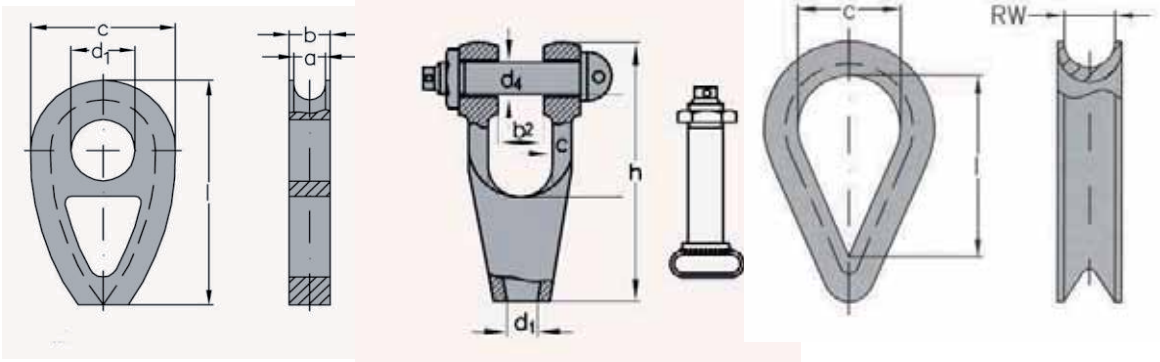
Size d1: _____ mm
Size c : _____ mm
Size l : _____ mm
Size b : _____ mm
Size a : _____ mm

OPEN SPELTER SOCKET:

b2: _____ mm
d1: _____ mm
d4: _____ mm
h: _____ mm

STANDART THIMBLE:

Size c: _____ mm
Size l: _____ mm



wire rope grips „chinese fingers“ - made from woven mesh wire -

A cable grip is a wire rope connection for temporary use. Cable grips are used for assembling and disassembling crane wire ropes. Three different types of cable grips are available.

Typ CF 1

one side with thimble

Typ	cable-/ wire ø	length mm	load approx kN
CF-100	8-15	1500	5,1
CF-101	8-15	2000	5,1
CF-115	15-20	1500	12,7
CF-116	15-20	2000	12,7
CF-120	20-30	1500	15,9
CF-121	20-30	2000	15,9
CF-130	30-40	1500	19,1
CF-131	30-40	2000	19,1
CF-140	40-50	1500	22,3
CF-141	40-50	2000	22,3
CF-150	50-60	1500	30,4
CF-151	50-60	2000	30,4
CF-160	60-80	1500	40,5
CF-161	60-80	2000	40,5
CF-180	80-100	1500	45,6
CF-181	80-100	2000	45,6

Typ CF 2

with thimble and swivel, anti twist, the connection for ropes with same diameter

Typ	cable-/ wire ø	length mm	load approx kN
CF-200	8-15	1500	5,1
CF-201	8-15	2000	5,1
CF-215	15-20	1500	12,7
CF-216	15-20	2000	12,7
CF-220	20-30	1500	15,9
CF-221	20-30	2000	15,9
CF-230	30-40	1500	19,1
CF-231	30-40	2000	19,1
CF-240	40-50	1500	22,3
CF-241	40-50	2000	22,3
CF-250	50-60	1500	30,4
CF-251	50-60	2000	30,4
CF-260	60-80	1500	40,5
CF-261	60-80	2000	40,5
CF-280	80-100	1500	45,6
CF-281	80-100	2000	45,6

Typ CF 4

both end open, the connection for ropes with same diameter

Typ	cable-/ wire ø	length mm	load approx kN
CF-406	6-8	1250	3,2
CF-407	6-8	1500	3,2
CF-408	8-10	1250	3,2
CF-409	8-10	1500	3,2
CF-410	10-15	1250	5,1
CF-411	10-15	1500	5,1
CF-415	15-20	1250	12,7
CF-416	15-20	1500	12,7
CF-420	20-30	1500	15,9
CF-421	20-30	2000	15,9
CF-430	30-40	1500	19,1
CF-431	30-40	2000	19,1
CF-440	40-50	1500	22,3
CF-441	40-50	2000	22,3
CF-450	50-60	1500	27,6
CF-451	50-60	2000	27,6
CF-460	60-80	1500	36,8
CF-461	60-80	2000	36,8

cable laid grommets

cable laid grommets				
Grommet-diameter	MBL acc. EN 13414-3	WLL acc. EN 13414-3	MBL acc.IMCA M 179	WLL acc.IMCA M 179
mm	t	t	t	t
30	76,87	15,37	72,60	14,52
33	93,06	18,61	87,89	17,58
36	111,23	22,25	105,05	21,01
39	129,95	25,99	122,73	24,55
42	150,88	30,18	142,50	28,50
48	197,13	39,43	186,18	37,24
54	248,89	49,78	235,06	47,01
60	307,26	61,45	290,19	58,04
66	372,24	76,28	351,56	72,04
72	442,72	93,20	418,12	88,03
78	519,81	112,76	490,93	106,49
84	602,41	134,47	568,94	127,00
90	691,61	158,99	653,19	150,16
96	787,42	186,59	743,68	176,28
102	888,74	217,30	839,37	205,22
108	996,67	252,32	941,30	238,30
114	1.110,10	290,60	1.048,43	274,46
120	1.230,14	333,37	1.161,80	314,85
126	1.356,79	381,12	1.281,42	359,95
132	1.488,95	434,11	1.406,23	409,98
144	1.771,98	560,75	1.673,54	529,60
156	2.079,24	693,00	1.963,73	654,57
168	2.411,83	803,94	2.277,84	759,28
174	2.586,94	862,31	2.443,00	814,33
192	3.149,70	1.049,90	2.974,72	991,57
204	3.556,00	1.185,33	3.359,00	1.119,66

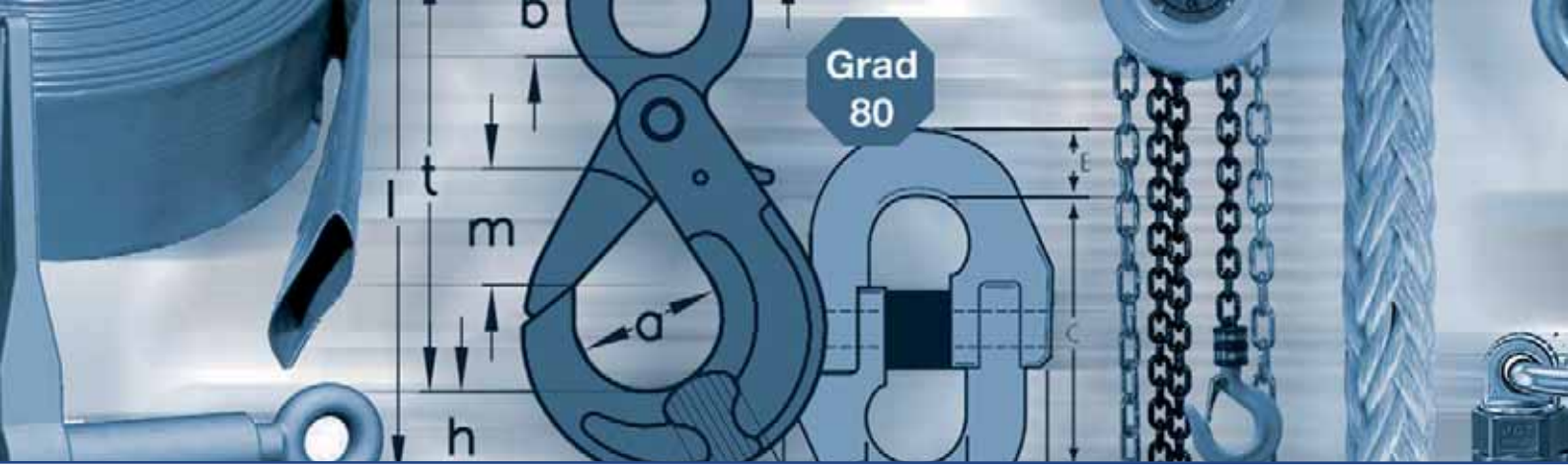
The following versions are available

endless

endless with two soft eyes

endless with thimbles both end

endless with thimble and soft eye



Also available:
Lifting and hoisting equipment

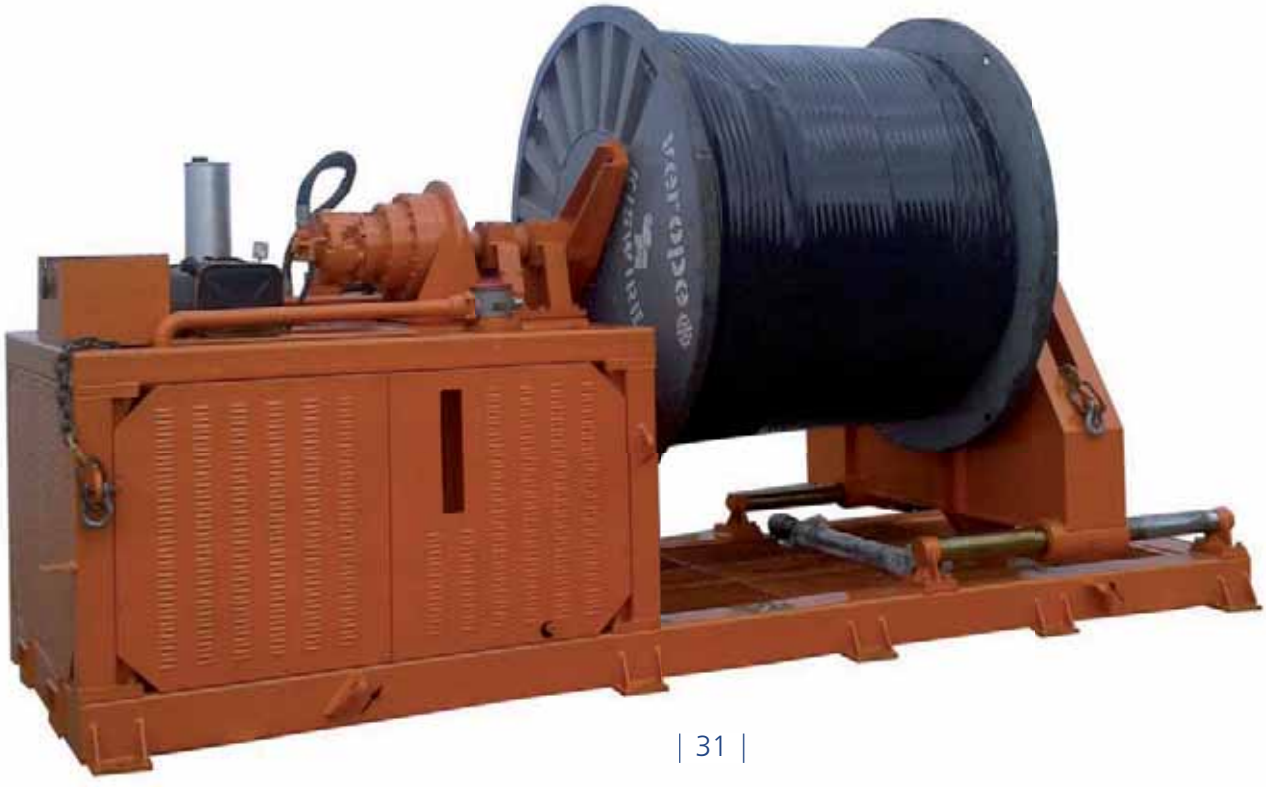
- Rope fittings (spelter sockets, wedge sockets, thimbles)
- Shackles (working capacity 0,5-1500to.)
- Chain slings and accessories
- Lifting clamps
- Lever hoist and chain blocks
- Webbing slings, endless round slings, ratchet straps
- Standard steel wire ropes
- Lifting nets and safety nets
- Fishing nets

Spooling machine for installation and removal of crane wire ropes on board

Technical parameter:

- max. loading 15 ton.
- operation speed : stepless 0 – 8 r/min
- max length of drum : 2,0 mtr.
- max . dia. of the drum : 2,5 mtr.
- dia. of drive shaft : 130 mm
- pulling force : 25 kN
- dimensions : L x W x H 5,5 x 2,10 x 2,0 mtr.
- compact hydraulic system driven by a Cummins diesel engine with 67 kW.
- Various drum shafts, possibility to pick up by a forklift or by crane.

All spooling operations are carried out by a team of trained and experienced operators who will ensure that the work is performed in a safe and professional manner.



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ISO 9001/14001
BUREAU VERITAS
Certification

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