

verope ®

HEAVY INDUSTRY

verope® special wire ropes

verostar 8



Overhead Crane

Ladle Crane

Jib Crane

APPLICATIONS

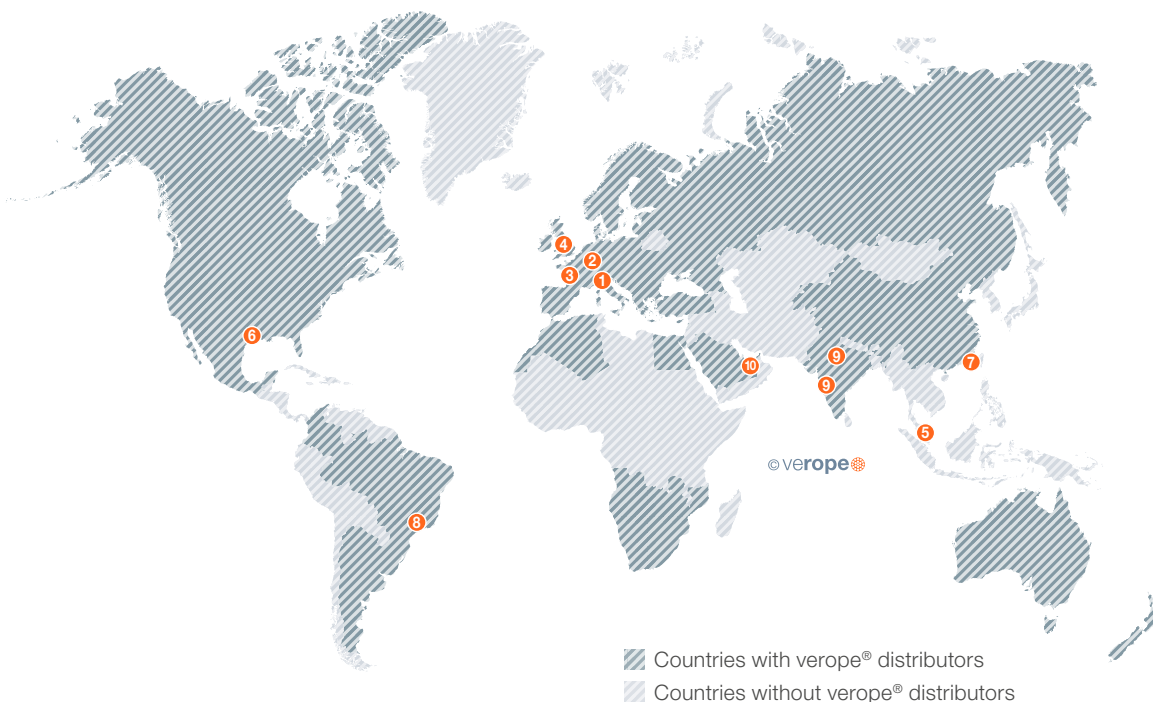
HEAVY INDUSTRY

Wire ropes must be capable of withstanding extreme ambient conditions and mechanical stresses present in heavy industry applications. verope® offers various ropes, rope end fittings and customer-specific special solutions specifically for the heavy industry. verope® provides a global distribution network for special wire ropes to serve the customers wherever the products are needed.

verope® offers the following services:

- Technical customer service
 - Technical advice including analysis, e.g. theoretical lifetime calculations
 - Rope & crane inspections (reeving system) and Reporting
 - Damage analysis
 - Training and Seminar
- A broad range of rope tests in our own testing facilities such as:
 - Tensile test up to 2500 kN
 - Bending fatigue test for various rope diameters
 - Various tests to determine the rotational behavior of ropes
 - Elongation measurement
 - Modulus of elasticity determination
 - Rope flexibility tests
 - Measurement of the diameter reduction under load
 - Radial Stability
 - Tension-tension fatigue test

verope® worldwide



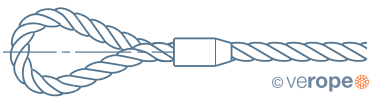
- | | |
|--|---|
| 1 verope® AG (Headquarters) , Zug, Switzerland | 6 verope® USA , Houston, USA |
| 2 verope® Service Center GmbH , Contwig, Germany | 7 LTI Steel Wire Rope Co., Ltd. , Shanghai, China |
| 3 verope® France , Paris, France | 8 verope® do Brasil , Resende, RJ, Brazil |
| 4 verope® UK , Birmingham, UK | 9 verope® Steel Wire Ropes Private Limited , Mumbai & New Delhi, India |
| 5 verope® Distribution Singapore Pte. Ltd , Singapore | 10 verope® Middle East , Dubai, UAE |

STANDARD ROPE END CONNECTIONS

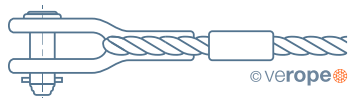


We are able to offer customized ropes with the correct end connections for crane brands such as:

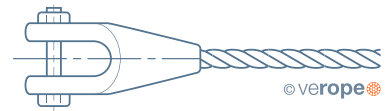
- Liebherr • Terex • Sennebogen • Tadano Faun • Manitowoc • And much more



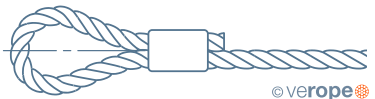
Flemish eye ferrule-secured termination



Ferrule-secured open thimble termination



Open spelter socket: Metal or resin socketing



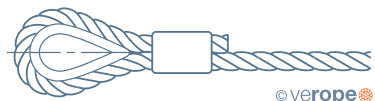
Ferrule-secured eye termination



End stop: either metal/resin socketing or swaged



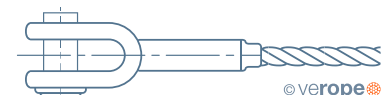
Closed end socket: Metal or cast synthetic resin



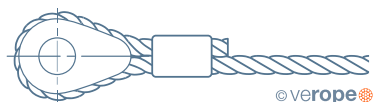
Ferrule-secured thimble termination



Threaded socket swaged



Open socket swaged



Ferrule-secured solid thimble termination



Closed socket swaged



Pad eye



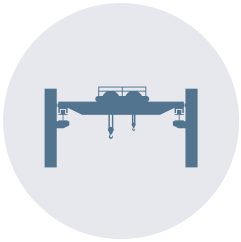
Seized and cut



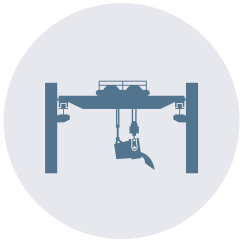
Fused and tapered

verope® can also offer customer-specific solutions in addition to the standard rope end connections. Special solutions on request.

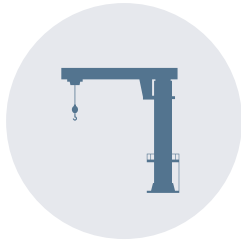
ROPE APPLICATIONS FOR HEAVY INDUSTRY



Overhead Crane

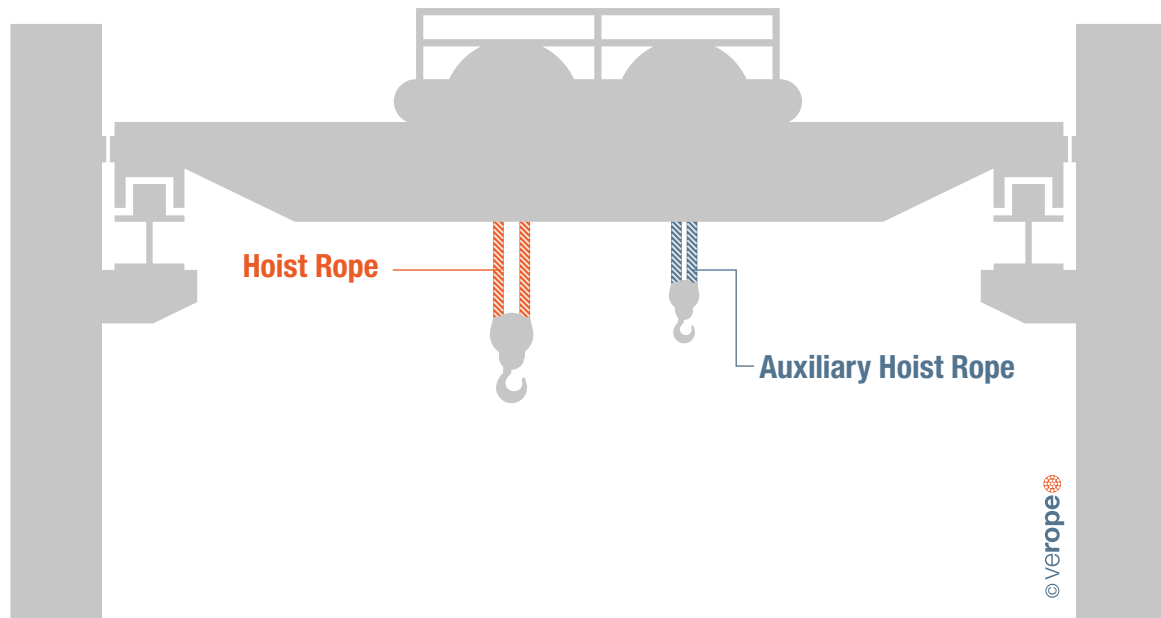


Ladle Crane

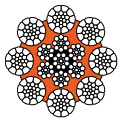


Jib Crane

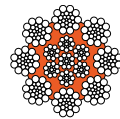
OVERHEAD CRANE



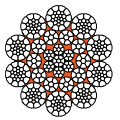
Overhead crane in cold operation.



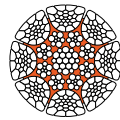
veropro 8 is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.



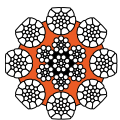
verostar 8³ is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.



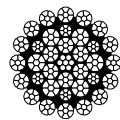
verotech 10¹ is a very flexible 10-strand, non-rotation resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.



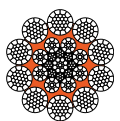
veropower 8¹ is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



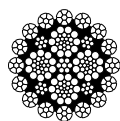
veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



verotop⁴ is a very flexible rotation-resistant rope with compacted strands.



veropro 10² is a very flexible 10-strand, non-rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.



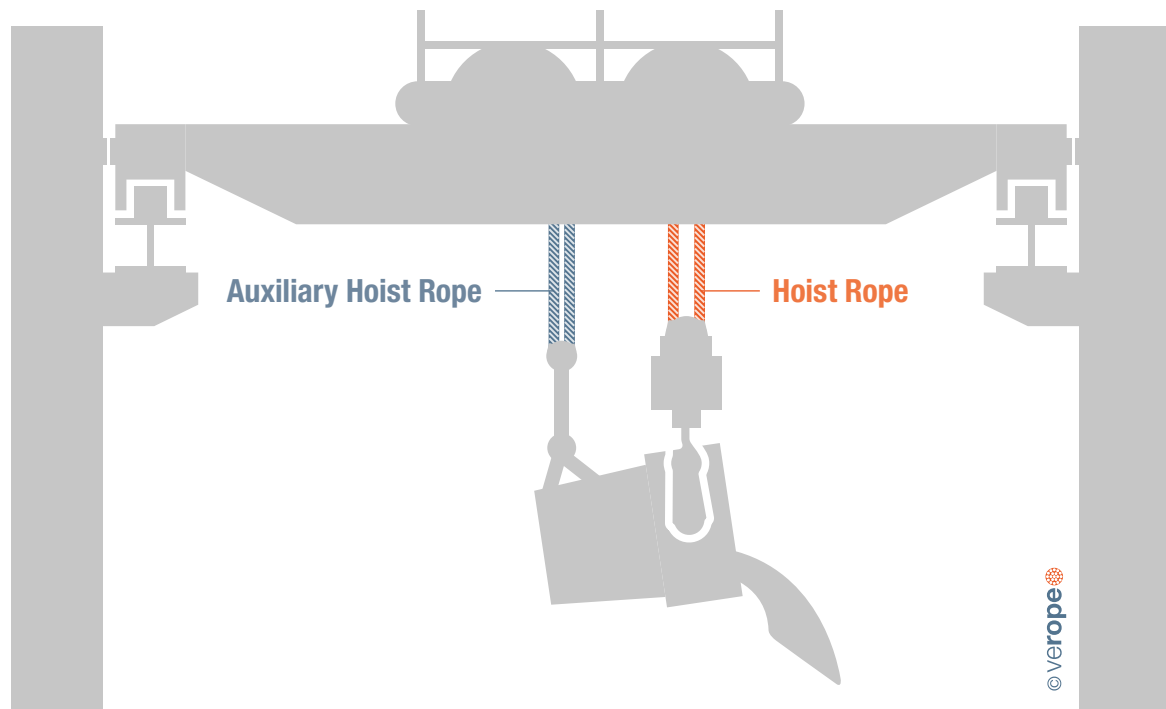
verotop E⁴ is a flexible rotation-resistant rope with compacted outer strands.



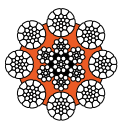
¹ For special applications | ² Only available from 30 mm diameter

³ Preferably for single-layer winding | ⁴ When a rotation-resistant rope is required

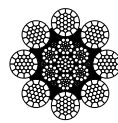
LADLE CRANE



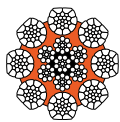
Ladle crane in warm operation.



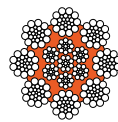
veropro 8 is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.



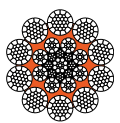
verosteel 8² is an 8-strand, non-rotation-resistant rope with compacted outer strands.



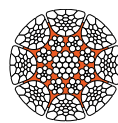
veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



verostar 8³ is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.



veropro 10¹ is a very flexible 10-strand, non-rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.



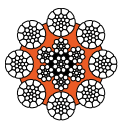
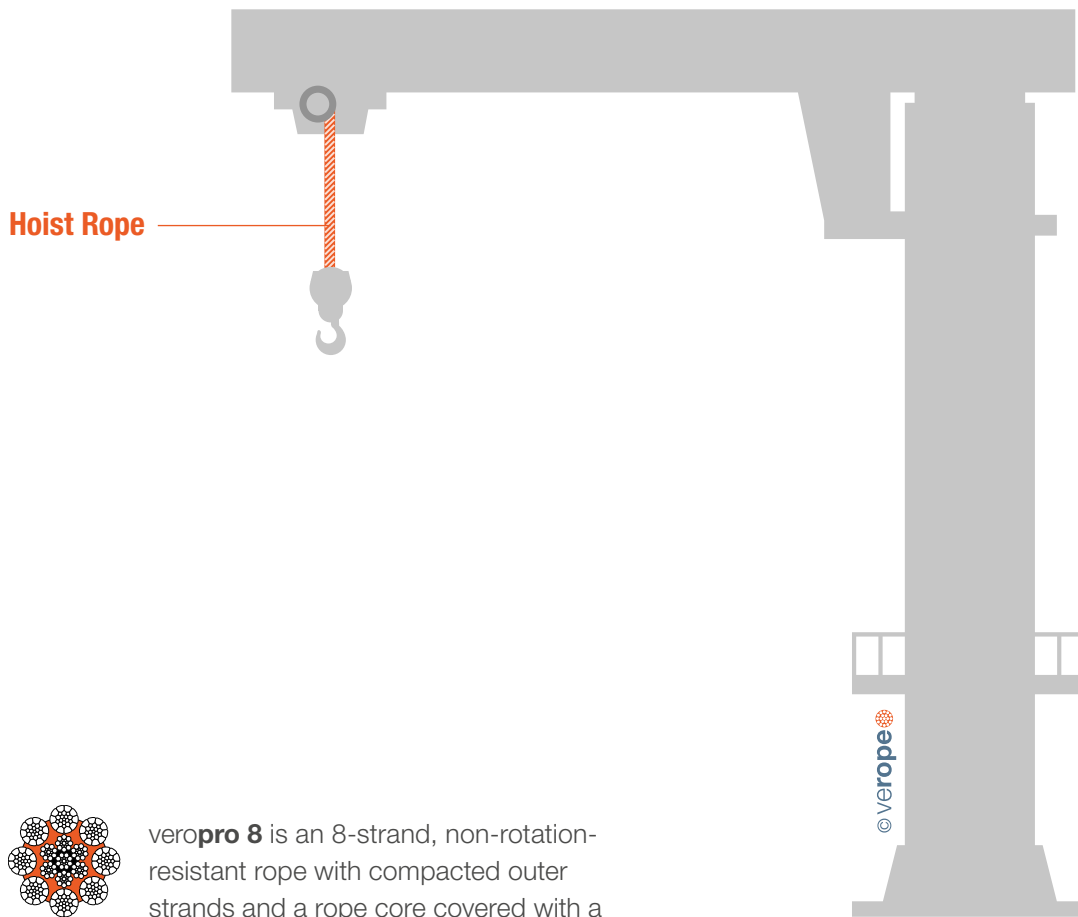
veropower 8⁴ is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



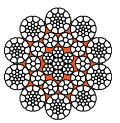
¹ Only available from 30 mm diameter | ² Casting crane with high temperatures

³ Preferably for single-layer winding | ⁴ For special applications

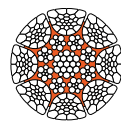
JIB CRANE



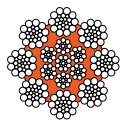
veropro 8 is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.



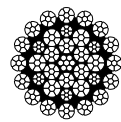
verotech 10¹ is a very flexible 10-strand, non-rotation resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.



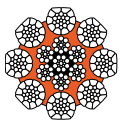
veropower 8¹ is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



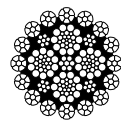
verostar 8² is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.



verotop³ is a very flexible rotation-resistant rope with compacted strands.



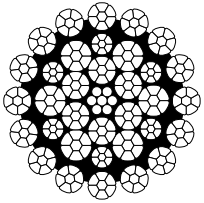
veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



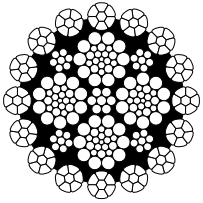
verotop E³ is a flexible rotation-resistant rope with compacted outer strands.

¹For special applications | ²Preferably for single-layer winding | ³When a rotation-resistant rope is required

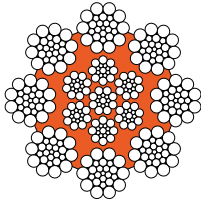
SPECIAL WIRE ROPE APPLICATIONS FOR THE HEAVY INDUSTRY



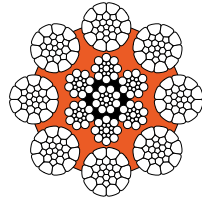
verotop



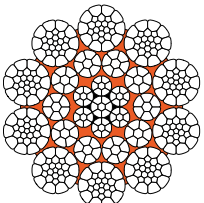
verotop E



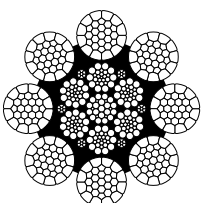
verostar 8



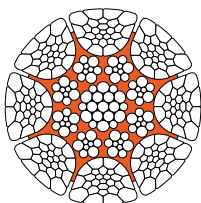
veropro 8



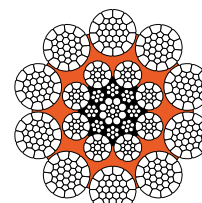
verotech 10



verosteel 8



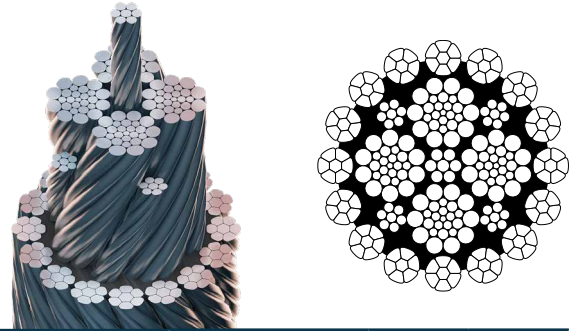
veropower 8



veropro 10

VEROTOP E

combines high breaking strength and good rotation resistance with remarkable efficiency.



Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
8	5/16	0.305	55.2	5.6	60.2	6.1
9		0.387	69.8	7.1	76.2	7.8
10		0.477	86.2	8.8	94.1	9.6
11	7/16	0.577	104.3	10.6	113.9	11.6
12		0.687	124.1	12.6	135.5	13.8
13		0.806	145.7	14.8	159.1	16.2
14		0.935	169.0	17.2	184.5	18.8
15		1.074	194.0	19.8	211.8	21.6
16	5/8	1.222	220.7	22.5	241.0	24.6
18		1.546	279.3	28.5	305.0	31.1
19	3/4	1.723	311.2	31.7	339.8	34.6
20		1.909	344.8	35.1	376.5	38.4
22		2.310	417.2	42.5	455.6	46.4
23		2.524	456.0	46.5	497.9	50.7
24		2.749	496.5	50.6	542.1	55.2
25		2.983	538.8	54.9	588.3	59.9
26		3.226	582.7	59.4	636.3	64.8
27		3.479	628.4	64	686.2	69.9
28		3.741	675.8	68.9	737.9	75.2
29		4.013	725.0	73.9	791.6	80.7
30		4.295	775.8	79.1	847.1	86.3
32	1-1/4	4.887	882.7	90	963.8	98.2
34		5.517	983.8	100.3	1077	109.8
35	1-3/8	5.846	1043	106.2	1142	116.3
36		6.185	1103	112.4	1208	123.1
38	1-1/2	6.891	1229	125.2	1346	137.1
40		7.635	1362	138.8	1491	151.9

Nominal rope diameter		Approx mass		Minimum breaking force tons' of 2000 lbs	
				Rope grade	
				1960	2160
mm*	Inch	lb/ft¹	kg/ft¹	1960	2160
8	5/16	0.21	0.09	6.2	6.8
9		0.26	0.12	7.8	8.6
10		0.32	0.15	9.7	10.6
11	7/16	0.39	0.18	11.7	12.8
12		0.46	0.21	14	15.2
13		0.54	0.25	16.4	17.9
14		0.63	0.29	19	20.7
15		0.72	0.33	21.8	23.8
16	5/8	0.82	0.37	24.8	27.1
18		1.04	0.47	31.4	34.3
19	3/4	1.16	0.53	35	38.2
20		1.28	0.58	38.8	42.3
22		1.55	0.7	46.9	51.2
23		1.7	0.77	51.3	56
24		1.85	0.84	55.8	60.9
25		2	0.91	60.6	66.1
26		2.17	0.98	65.5	71.5
27		2.34	1.06	70.6	77.1
28		2.51	1.14	76	82.9
29		2.7	1.22	81.5	89
30		2.89	1.31	87.2	95.2
32	1-1/4	3.28	1.49	99.2	108.3
34		3.71	1.68	110.6	121.1
35	1-3/8	3.93	1.78	117.2	128.3
36		4.16	1.89	124	135.8
38	1-1/2	4.63	2.1	138.1	151.3
40		5.13	2.33	153.1	167.6

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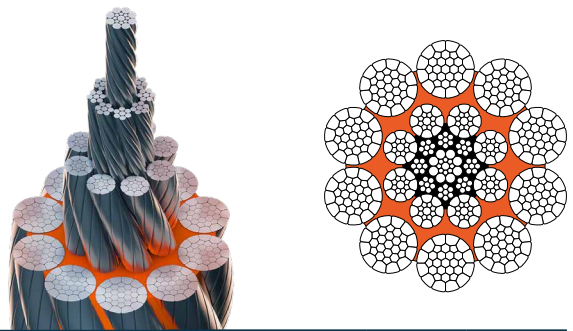
*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications.

Relevant is our website www.verope.com

VEROPRO 10

is an extremely flexible rope with very high breaking strength and achieves excellent bending fatigue results.



Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
30		4.152	828.0	84.4	891.6	90.9
32	1-1/4	4.724	942.1	96	1014.4	103.4
34		5.333	1063.5	108.4	1145.2	116.7
36		5.979	1192.3	121.5	1283.9	130.8
38	1-1/2	6.662	1328.4	135.4	1430.5	145.8
40		7.381	1472.0	150	1585.1	161.5
42		8.138	1622.8	165.4	1747.5	178.1
44		8.931	1781.1	181.5	1917.9	195.4
46		9.762	1946.7	198.4	2096.3	213.6
48		10.629	2119.6	216	2282.5	232.6
50	2	11.533	2299.9	234.4	2476.7	252.4
52		12.474	2487.6	253.5	2678.8	273
54	2-1/8	13.452	2682.6	273.4	2888.8	294.4
56		14.467	2885.0	294	3106.8	316.6
58		15.519	3094.8	315.4	3332.6	339.6
60	2-3/8	16.608	3311.9	337.5	3566.4	363.4
62		17.733	3536.4	360.4	3808.1	388.1
64	2-1/2	18.896	3768.2	384	4057.8	413.5
66	2-5/8	20.095	4007.4	408.4	4315.4	439.7
68		21.332	4254.0	433.5	4580.9	466.8
70	2-3/4	22.605	4507.9	459.4	4854.3	494.7

Nominal rope diameter		Approx mass		Minimum breaking force tons' of 2000 lbs	
				Rope grade	
				1960	2160
mm*	Inch	lb/ft ¹	kg/ft ¹	1960	2160
30	1-1/4	2.79	1.27	93.1	100.2
32		3.17	1.44	105.9	114
34		3.58	1.63	119.5	128.7
36	1-1/2	4.02	1.82	134	144.3
38		4.48	2.03	149.3	160.8
40		4.96	2.25	165.4	178.2
42		5.47	2.48	182.4	196.4
44		6	2.72	200.2	215.6
46		6.56	2.98	218.8	235.6
48	2	7.14	3.24	238.2	256.6
50		7.75	3.52	258.5	278.4
52	2-1/8	8.38	3.8	279.6	301.1
54		9.04	4.1	301.5	324.7
56		9.72	4.41	324.3	349.2
58	2-3/8	10.43	4.73	347.9	374.6
60		11.16	5.06	372.3	400.9
62	2-1/2	11.92	5.41	397.5	428
64	2-5/8	12.7	5.76	423.5	456.1
66		13.5	6.13	450.4	485
68	2-3/4	14.33	6.5	478.1	514.9
70		15.19	6.89	506.7	545.6

© Verope

*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications.

Relevant is our website www.verope.com

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TECHNICAL BROCHURE

verope® special wire ropes

The new and completely revised “Technical Brochure” is aimed at all customers, distributors and rope users. The brochure is available in German and English and provides useful information on the correct handling of special wire ropes by means of numerous graphics and tables.

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TECHNICAL BROCHURE →

Provides background information on rope construction, different rope types and useful tips for the correct handling of special wire ropes.

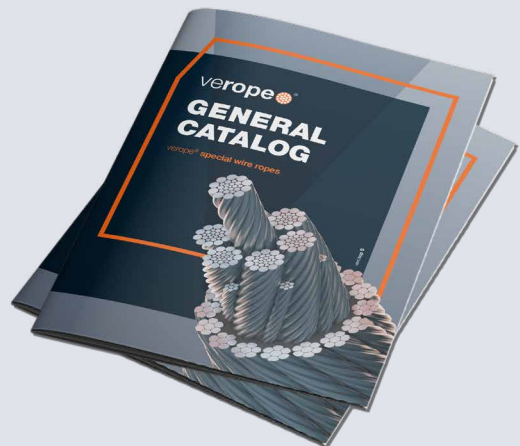


← HANDLING BROCHURE

Offers important information and explanations, that help our customers handle special wire ropes correctly and safely.

GENERAL CATALOG →

All verope® special wire ropes combined in a complete catalog and sorted by application.



← IMAGE BROCHURE GROUP

The verope® Group and its worldwide locations introduces itself.

IMAGE BROCHURE KV →

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HEAVY INDUSTRY

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