

Steel wire ropes



Valimar Ltd. is registered in 1989. The company is specialized in the import and the trade with steel wire and steel wire ropes since 1993.

Valimar Ltd. is main supplier of steel wire ropes and wire products over the territory of Bulgaria, Macedonia, Serbia, Croatia, Monte Negro and Bosna & Herzegovina.

The main activity of the company includes:

Import and trading with:

Steel wire ropes with different application by EN 12385:

For cranes, lifts and lifting equipment
For the mining
for the ports
in the quarrying
for fishing
in the energetic
for winches and etc.

Steel wires: high and low carbon wire, galvanized or black, spring wire;
certified lifting gear equipment,
certified rigging

Nails

Barbed wire

Producing of slings:

Steel wire rope slings

Chain slings

Polyester slings (from technical fabric)

Producing and installation of:

Wire mesh and fences: galvanized, with PVC coating, welded, etc.

High quality 3D fence panels

Gabions

Certificates and standards

Valimar Ltd. is certified by "Lloyd's Register Quality Assurance" since 2002. By now we renewed our certificate many times and we own a certificate according to ISO 9001:2008. This is a proof for the quality we offer.

Valimar Ltd. manufactures and supplies steel wire rope slings from 4.0mm to 60.0mm according to EN 13414-1 and chains with strength class 8 accompanied by a certificate of quality.

Company Valimar has high qualified staff which cares about the quality, the assurance and the reliability of the products.

The company constantly follows and applies the latest innovations in the world.

Logistics and resources

Valimar Company Ltd. invested in 3 new high-quality hydraulic presses for making slings produced by the British concern for the production of hydraulic equipment UNISPLICE subsidiary of Germany and Talorit.

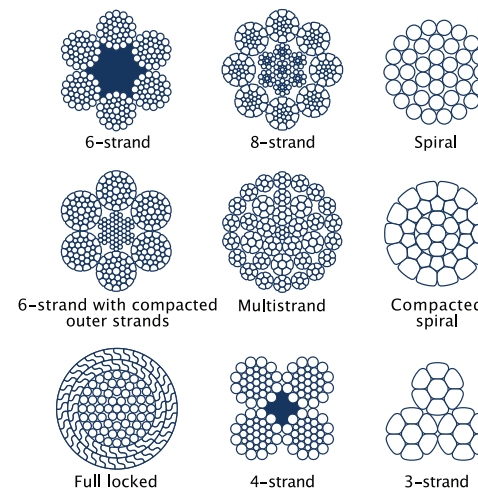
We have all required Certificates, including CE marking.

Valimar Ltd. have own warehouses and own autopark. These makes the company close to the customers and let us to supply all the goods quickly.

The trust from our customers outputs the company to a lead position in this sector.

For further information do not hesitate to call the phone numbers. The team of Valimar Ltd. will be happy to answer all your questions and help you in selecting the correct product for your needs.

Steel wire rope



Alerion

Industry-based solution for elevators

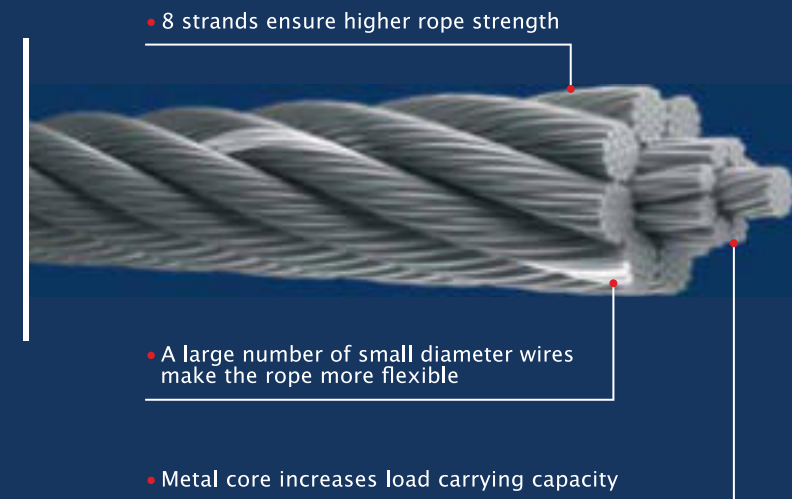


Alerion® is our solution for elevator industry.
It includes 6-strand and 8-strand special ropes that we produce specially for the installation and maintenance of elevators.
For high buildings we manufacture 8x19 wire ropes with metal core.

Alerion® ropes are flexible, strong and durable compared to standard solution.

We select ropes for different application conditions of the equipment for the most efficient operation, in a short time we carry out delivery and provide additional services.

Special design



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Alerion

Industry-based solution for elevators



Advantages of Alerion MC8

- 1 Higher endurance limit resulting from increased number of wires in the rope.
- 2 High damping capacity (better vibration absorption).
- 3 Higher elasticity caused by smaller diameter of wires.
- 4 Reduced surface stress between the rope and pulleys.

Performance comparison

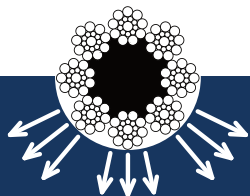
Alerion 819 (8x19S-FC)

Weight -0.223 kg/m

MBL -29.4 kN

Elastic elongation $\leq 0.20\%$

Structural elongation $\leq 0.14\%$



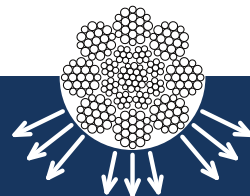
Alerion MC8 (8x19W-IWRC)

Weight -0.260 kg/m

MBL -35.8 kN

Elastic elongation $\leq 0.08\%$

Structural elongation $\leq 0.02\%$



Lifting wire ropes

- Alerion 819 (8x19S-FC)
- Alerion MC8 (8x19W-IWRC)

Governor ropes

- Alerion 619 (6x19W-FC)
- Alerion 619 (6x19S-FC)
- Alerion 619 (6x19M-FC)

Alerion 619

6-strand wire ropes with fiber core

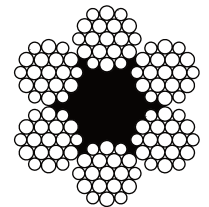
EN 12385-4 class 6x19 and 6x19M

Wire ropes for overspeed governors.

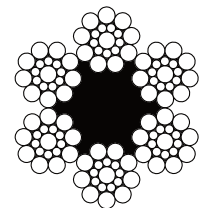
Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²			
		1570	1770	1960	2160
Minimum breakingload, kN					
6x19W-FC, 6x19S-FC					
6	0.13	–	21.1	23.4	25.7
7	0.18	–	28.7	31.8	35.0
8	0.23	33.2	37.5	41.5	45.8
9	0.29	42.1	47.4	52.5	57.8
10	0.36	52.0	58.6	64.9	71.5
11	0.43	62.9	70.9	78.5	86.5
12	0.52	74.8	84.3	93.3	102.9
13	0.61	87.8	99.0	110	121
14	0.70	102.0	115	127	140
15	0.81	117	132	146	161
16	0.92	133	150	166	183
17	1.08	150	169	187	206
18	1.16	168	190	210	232
19	1.30	187	211	234	257
20	1.44	207	234	259	286
22	1.74	251	283	313	345
6x19M-FC					
6	0.13	–	19.6	21.7	23.9
7	0.17	23.6	26.6	29.5	32.5
8	0.22	30.8	34.8	38.5	42.4
9	0.28	39.0	44.0	48.7	53.7
10	0.35	48.2	54.3	60.2	66.3
11	0.42	58.3	65.8	72.8	80.2
12	0.50	69.4	78.2	86.6	95.5
13	0.59	81.5	91.8	102	112
14	0.68	94.5	107	118	130
15	0.78	108	122	135	149
16	0.89	123	139	154	170
18	1.12	156	176	195	215
20	1.38	193	217	241	265
22	1.67	233	263	291	321

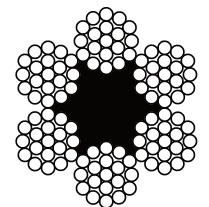
6x19W-FC



6x19S-FC



6x19M-FC



Industry-based solution Alerion

Industry-based solution Alerion

Alerion 819

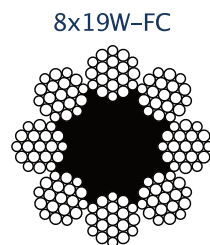
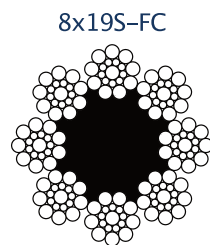
8-strand wire ropes with fiber core

EN 12385-5 class 8x19

Lifting wire ropes for heights ≤30 m.

Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²		
		1570	1370/1770	1770
		Minimum breakingload, kN		
8.0	0.22	29.4	28.1	33.2
9.0	0.28	37.3	35.6	42.0
10.0	0.34	46.0	44.0	51.9
11.0	0.41	55.7	53.2	62.8
12.0	0.49	66.2	63.3	74.7
13.0	0.57	77.7	74.3	87.6
14.0	0.67	90.2	86.1	102.0
15.0	0.77	103.0	98.8	117.0
16.0	0.87	118.0	113.0	133.0



Alerion MC8

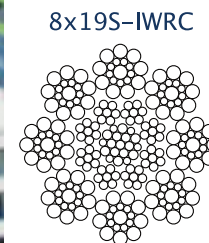
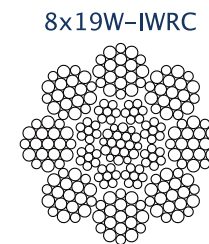
8-strand wire ropes with metal core

EN 12385-5 class 8x19

Lifting ropes for heights >30 m
and for elevators with gearless winches.

Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²		
		1570	1570/1960	1770
		Minimum breakingload, kN		
8.0	0.26	35.8	42.9	40.3
9.0	0.33	45.3	54.6	51.0
10.0	0.41	55.9	69.5	63.0
11.0	0.49	67.6	83.1	76.2
12.0	0.59	80.5	98.9	90.7
13.0	0.69	94.5	114.0	106.0
14.0	0.80	110.0	133.0	124.0
15.0	0.92	126.0	151.0	142.0
16.0	1.04	143.0	173.0	161.0



Triniks

Industry-based solution for cableways



Triniks® is our solution for cableways.

It includes wire ropes with the Innovative High Performance Core, which increases work life of hauling and carrying elements of cableways.

Our wire ropes Triniks ZL for cable-trolley and zipline provide safety and comfort during exploitation due to construction of the ropes.

Industry-based solution Triniks® is applied for all types of passenger and aerial material ropeways.

Wire ropes Triniks® are reliable and durable solution, which allows our clients to be sure about safety and decrease number of changes of the rope.

Special design

- Equal load distribution with the improved support of outer strands



- Polymer coating protects core from contacts with strands

- Polypropylene provides rope flexibility



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Triniks

Industry-based solution for cableways



High-rated quality



Cost
minimization



Better
performance

Advantages Triniks

- 01 Innovative core
- 02 Minimum elongation
- 03 Minimum reduction of cross-section area
- 04 Fixed position of strands
- 05 Increased lay length



HPC (high performance core)

Innovative type of core, specially developed for carrying-hauling wire ropes of cableways. Innovative HPC (High Performance Core) consisting of 3 or 4-strand polypropylene core covered with extruded polymeric coating.

Advantages of HPC

in comparison with fiber cores:

- diameter consistency
- equal load distribution with the improved support of outer strands
- protection from external factors such as high/low temperature, aggressive environment



Triniks ZL

Triniks ZL – wire ropes are used as track cables on cable trolley and zip-lines. They are manufactured with compacted outer layer. Characteristics of wire ropes provide comfort and safe ride.

Advantages

- expanded contact with trolley rollers
- ride smoothness
- minimum vibrations
- low wear of trolley rollers

Industry-based solution Triniks

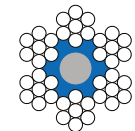
Industry-based solution Triniks

Rope selection guide

Skilift

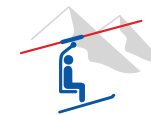


Tow rope

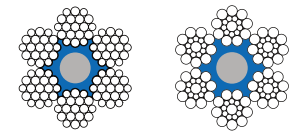


Triniks 67HPC

Chairlift

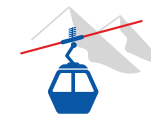


Carrying-hauling

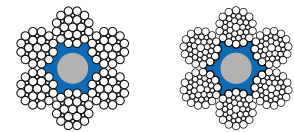


Triniks 619 HPC

Gondola lift



Carrying-hauling

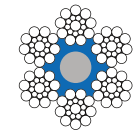


Triniks 625 HPC Triniks 636 HPC

3S



Hauling

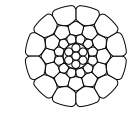


Triniks 619 HPC

Zipline



Track

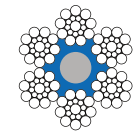


Triniks ZL

Aerial material



Hauling



Triniks 619 HPC

Triniks 67 HPC

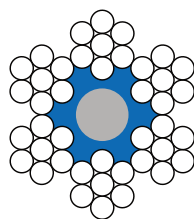


Construction

6 x 7 (1 + 6) + HPC

Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²			
		1570	1770	1960	2160
		Minimum breakingload, kN			
12	0.50	75.1	84.6	93.7	103
13	0.58	88.1	99.3	110	121
14	0.68	102	115	128	141
15	0.78	117	132	146	161
16	0.88	133	150	167	184
18	1.12	177	190	221	244
20	1.38	208	235	260	287
22	1.67	252	284	315	347
24	1.99	300	338	375	413
26	2.33	352	397	440	485
28	2.70	409	461	510	562
32	3.53	533	602	666	734
36	4.47	675	762	843	929
40	5.52	834	940	1041	1147



Industry-based solution Triniks

Industry-based solution Triniks



Triniks 619 HPC



Construction

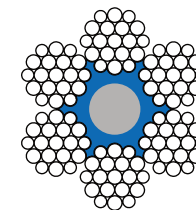
6 x 19 (1 + 6 + 6 / 6) (W) + HPC

6 x 19 (1 + 9 + 9) (S) + HPC

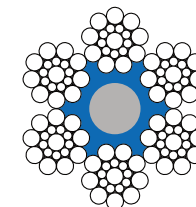
Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²			
		1570	1770	1960	2160
		Minimum breakingload, kN			
12	0.52	74.8	84.3	93.3	103
13	0.61	87.8	99.0	110	121
14	0.70	102	115	127	140
15	0.81	117	132	146	161
16	0.92	133	150	166	183
17	1.08	150	169	187	206
18	1.16	168	190	210	232
19	1.30	187	211	234	257
20	1.44	207	234	259	286
22	1.74	251	283	313	345
24	2.07	299	336	373	411
26	2.43	350	395	437	482
28	2.81	407	458	508	560
32	3.68	530	598	662	730
36	4.65	671	757	838	–
40	5.74	833	935	1040	–
44	6.95	1001	1130	1250	–
48	8.27	1194	1350	1490	–
52	9.71	1402	1580	1750	–
56	11.30	1626	1830	–	–
60	12.90	1866	2100	–	–

619W



619S



Triniks 625 HPC

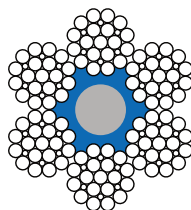


Construction

6 x 25 (1 +6; 6 +12) (F) +HPC

Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
12	0.52	74.8	84.3	93.3
13	0.61	87.8	99.0	110
14	0.70	102	115	127
15	0.81	117	132	146
16	0.92	133	150	166
17	1.08	150	169	187
18	1.16	168	190	210
19	1.30	187	211	234
20	1.44	207	234	259
22	1.74	251	283	313
24	2.07	299	336	373
26	2.43	350	395	437
28	2.81	407	458	508
32	3.68	530	598	662
36	4.65	671	757	838
40	5.74	833	935	1040
44	6.95	1001	1130	1250
48	8.27	1194	1350	1490
52	9.71	1402	1580	1750
56	11.3	1626	1830	–
60	12.9	1866	2100	–



Industry-based solution Triniks

Industry-based solution Triniks



Triniks 636 HPC

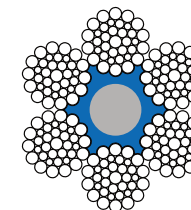


Construction

6 x 36 (1 +7 +7 / 7 +14) (WS) +HPC

Specifications

Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
12	0.53	74.6	84.1	93.1
13	0.62	87.6	98.7	109
14	0.72	102	114	127
15	0.83	117	131	146
16	0.94	133	150	166
17	1.06	150	169	187
18	1.19	168	189	210
19	1.32	187	211	233
20	1.47	207	234	259
22	1.78	251	283	313
24	2.11	298	336	373
25	2.29	324	365	404
26	2.48	350	395	437
28	2.88	406	458	507
30	3.30	466	526	582
32	3.76	531	598	662
34	4.24	599	675	748
36	4.76	671	757	838
37	5.02	709	800	885
38	5.30	748	843	934
39	5.58	788	888	984
40	5.87	829	935	1040
42	6.47	914	1030	1141
44	7.11	1003	1130	1250
45	7.43	1049	1183	1310
46	7.77	1096	1236	1369
48	8.46	1194	1350	1490
52	9.92	1401	1580	1750
56	11.5	1625	1830	–
60	13.2	1865	2100	–



Triniks ZL



Construction

Triniks ZL I -1 x K43 (1 +6 +12 +12 +12)
Triniks ZL II -1 x K37 (1 +6 +15 +15) Triniks
ZL III -1 x K55 (1 +9 +9 +18 +18)

Triniks ZL wire ropes are used as track cables
on cable trolley and zip line rides.

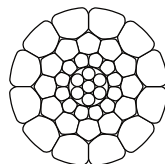
Three types of these wire ropes are manufactured
with compacted outer layer.

Specifications

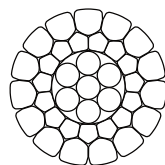
Diameter, mm	Rope weight, kg/m	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
10	0.61	106	112	120
11	0.72	123	131	139
12	0.86	147	156	165
16	1.54	270	287	303



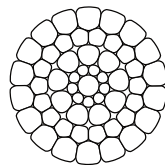
Triniks ZL I



Triniks ZL II



Triniks ZL III



Industry-based solution Triniks

Industry-based solution Triniks

Splicing

Splicing is the necessary type of service maintenance for track
and hauling-track wire ropes for cableways.

In rope splicing, the two wire rope ends are connected to each other
to create an endless circular rope without a knot or visible enlargement
(unevenness) in connection point.

The splice ensures a secure and even connection of both ends
of the rope and can be used for any type of stranded wire ropes
with fiber or metal core.



Nominal rope diameter	Minimal length of the splice	Length of the tail	Distance between splicing points
d, mm	L, m	a, m	b, m
12	14.4	0.72	2.06
13	15.6	0.78	2.23
14	16.8	0.84	2.40
15	18.0	0.90	2.57
16	19.2	0.96	2.74
17	20.4	1.02	2.91
18	21.6	1.08	3.09
19	22.8	1.14	3.26
20	24.0	1.20	3.43
22	26.4	1.32	3.77
24	28.8	1.44	4.11
25	30.0	1.50	4.29
26	31.2	1.56	4.46
28	33.6	1.68	4.80
30	36.0	1.80	5.14
32	38.4	1.92	5.49
34	40.8	2.04	5.83
36	43.2	2.16	6.17
37	44.4	2.22	6.34
38	45.6	2.28	6.51
39	46.8	2.34	6.69
40	48.0	2.40	6.86
42	50.4	2.52	7.20
44	52.8	2.64	7.54
45	54.0	2.70	7.71
46	55.2	2.76	7.89
48	57.6	2.88	8.23
52	62.4	3.12	8.91
56	67.2	3.36	9.60
60	72.0	3.60	10.30



steel wire ropes, slings, wires, wire fences



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