

Steel wire ropes

Talpa

Industry-based solution for mining industry



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

Polyster 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.

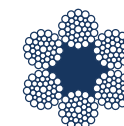
We have all required Certificates, including CE marking.

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.

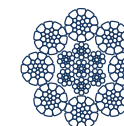
The trust from our customers outputs the company to a lead position in this sector.

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.

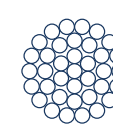
Steel wire rope



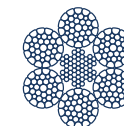
6-strand



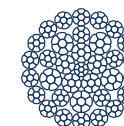
8-strand



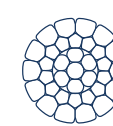
Spiral



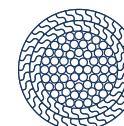
6-strand with compacted outer strands



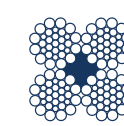
Multistrand



Compacted spiral



Full locked



4-strand



3-strand

Industry-based solution

We developed a solution for each area of use. This solution includes:

- Special ropes with improved performance and extended service life;
- Additional services;
- Technical support.

Industry-based solutions help our customers to reduce equipment downtime, to increase the safety of its work, as well as to reduce the cost of maintenance of equipment.

Customers choose our industry-based solutions for:

- Oil and gas; Mining;
- Production and maintenance of elevators;

All types of cranes used in any manufacturing industry; Cableways

For each of the areas of application we produce product line of special ropes with unique technical characteristics and construction.



Talpa® –mining



Octopus® –oil and gas



Alerion® –elevators



Anaconda® –cranes



Triniks® –cableways

Talpa Industry-based solution for mining industry

Talpa® is our solution for mining industry. It includes 6-strand, 8-strand and multi-strand special wire ropes with compacted outer strands and polymer filling of the inner and outer strands.

Thanks to their design, Talpa wire ropes are much stronger and have extended operational life compared to standard and out-dated ropes. This allows our customers to significantly reduce the number of wire rope replacement operations and cut the cost of servicing excavators and mining systems.

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

- 8 strands ensure higher rope strength

- Polymer sheath protects the rope and prolongs its service life

- Compacting provides extra strength





High-rated
quality



Cost
minimization



Better
performance

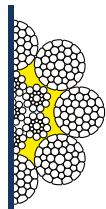


Reduced
downtime



More
safety

Plastic impregnation



- 01 Fill all available space between strands and core
- 02 Prevent ropes from dimensional changes
- 03 Increase resistance to transverse load, rotation, impact loads



Comparison of wire ropes

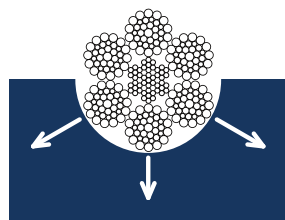
EN 12385-4 (6x36WS-IWRC)

Diameter –39.0 mm

Weight –6.53 kg/m

Grade –1770 N/mm²

MBL –972 kN



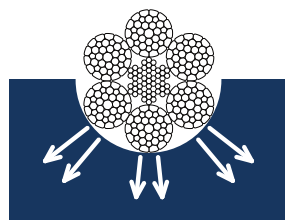
Talpa 636K (6xK36WS-IWRC)

Diameter –39.0 mm

Weight –6.72 kg/m

Grade –1770 N/mm²

MBL –1082 kN



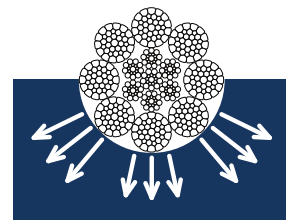
Talpa 836K (8xK36WS-IWRC)

Diameter –39.0 mm

Weight –6.99 kg/m

Grade –1770 N/mm²

MBL –1160 kN

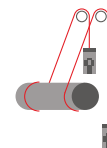


Industry-based solution Talpa

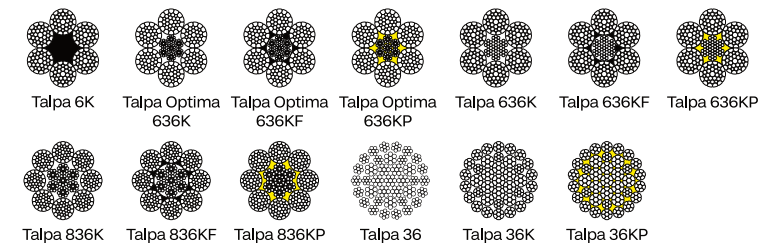
Industry-based solution Talpa

Rope selection guide for underground mining

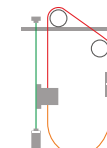
Drum winders



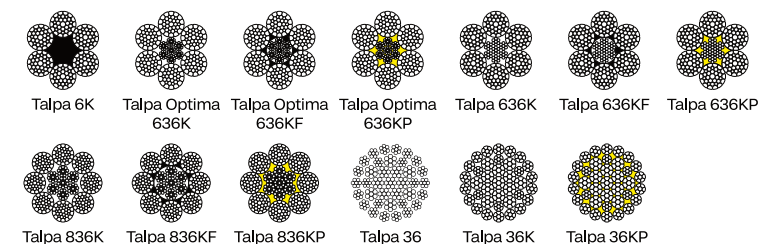
Hoisting ropes



Friction winders



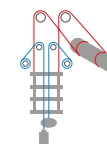
Hoisting ropes



Balance ropes



Shaft sinking

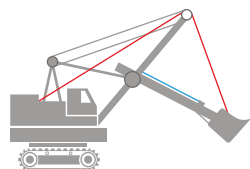


Kibble ropes

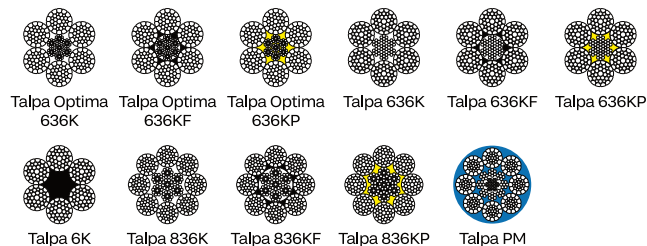


Rope selection guide for surface mining

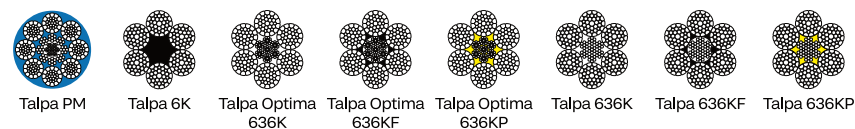
Shovels



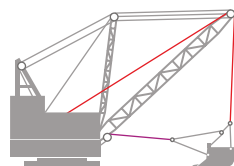
Hoisting ropes



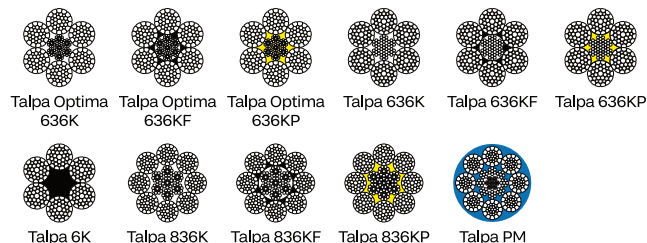
Crowd & retract ropes



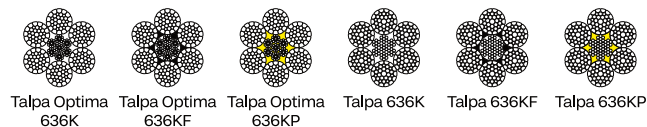
Draglines



Hoisting ropes



Drag ropes



Talpa 6K

6-strand wire ropes
with compacted outer strands and fiber core

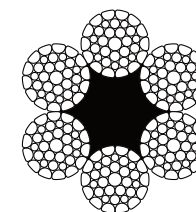
Construction

6x36 (1+7+7/7+14)+1 fiber core

Advantages in comparison with standard solutions

- high flexibility
- increased wear resistance of wires
- less pulley groove wear

Diameter, mm	Weight of 1000 m, kg	Rope grade, N/mm ²			
		1670	1770	1860	1960
		Minimum breakingload, kN			
36.5	5303	765	811	852	898
38.0	5597	809	857	901	949
39.5	6159	890	944	992	1050
42.0	6956	1010	1070	1120	1180
43.0	7290	1050	1120	1170	1240
44.5	7967	1150	1220	1280	1350
46.5	8499	1230	1300	1370	1440
48.5	9177	1330	1410	1480	1560
50.5	9798	1420	1500	1580	1670
53.5	11195	1630	1720	1810	1910
56.0	12393	1790	1900	2000	–
58.5	13088	1900	2010	2120	–
60.5	14959	2170	2290	–	–
63.0	15344	2230	2360	–	–
64.0	16086	2330	2470	–	–
65.0	16592	2410	2550	–	–
68.0	18686	2710	–	–	–



- Underground mining
- Surface mining

Industry-based solution Talpa

Industry-based solution Talpa

Talpa 636K

6-strand wire ropes
with compacted outer strands

Construction

6x36 (1+7+7/7+14) + 7x7 (1+6)

636K –rope construction with compacted outer strands.

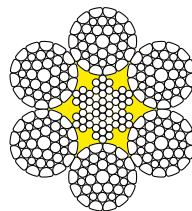
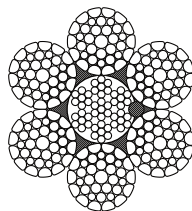
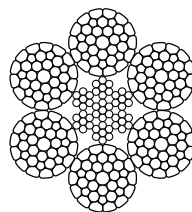
636KF –construction with compaction of rope outer strands and 6 fiber fillers between outer and inner rope layers.

636KP –construction with compaction of rope outer strands and plastic coated core.

Advantages in comparison with standard solutions

- increased wear resistance of wires
- high strength
- less pulley groove wear
- increased resistance against transverse crushing

Diameter, mm	Weight of 1000 m, kg			Rope grade, N/mm ²		
	636K	636KF	636KP	1670	1770	1860
	Minimum breakingload, kN					
36.0	5910	-	5970	909	964	1013
36.5	6090	-	6160	924	979	1029
39.0	6720	6800	6790	1021	1082	1137
41.0	7600	7690	7680	1153	1222	1284
42.0	7970	8070	8060	1210	1283	1348
45.5	9270	9380	9370	1405	1489	1565
49.0	10790	10920	10900	1637	1735	1823
52.0	12290	12440	12420	1866	1977	2078
57.0	14390	14560	14550	2187	2318	2436
60.5	16410	16610	16590	2492	2642	-
61.5	16910	17110	17090	2569	2723	-
64.0	18220	18430	-	2769	2935	-
66.0	19320	19540	-	2953	-	-
68.0	20520	20760	-	3120	-	-



- Underground mining
- Surface mining

Industry-based solution Talpa

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Talpa Optima 636K

6-strand wire ropes
with compacted outer strands

Construction

6x36(1+7+7/7+14) + 6x19(1+9+9) + 1x19(1+9+9)

636K –rope construction with compacted outer strands.

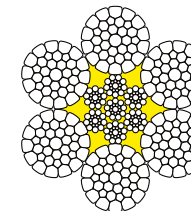
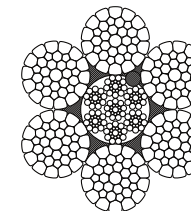
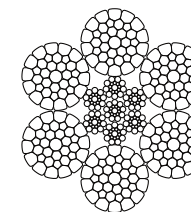
636KF –construction with compaction of rope outer strands and 6 fiber fillers between outer and inner rope layers.

636KP –construction with compaction of rope outer strands and plastic coated core.

Advantages in comparison with standard solutions

- high flexibility
- increased wear resistance of wires high strength
- less pulley groove wear
- increased resistance against transverse crushing
-

Diameter, mm	Weight of 1000 m, kg			Rope grade, N/mm ²			
	636K	636KF	636KP	1670	1770	1860	1960
	Minimum breakingload, kN						
36.5	6153	-	6223	962	1011	1063	1120
39.0	6858	6940	6928	1072	1126	1183	1247
41.0	7716	7809	7796	1202	1263	1327	1399
42.0	8057	8154	8147	1256	1320	1387	1461
45.5	9421	9534	9521	1461	1536	1614	1701
49.0	10999	11131	11109	1703	1789	1881	1982
52.0	12516	12666	12646	1936	2033	2140	2255
57.0	14729	14905	-	2272	2389	2511	2646
60.5	16859	17061	-	2593	2725	2864	3017
61.5	17316	17523	-	2662	2798	2940	-
64.0	18672	18896	-	2870	3018	-	-
68.0	21162	21416	-	3242	3406	-	-
66.0	19320	19540	-	2953	-	-	-
68.0	20520	20760	-	3120	-	-	-



- Underground mining
- Surface mining

Talpa 836K

8-strand wire ropes
with compacted outer strands

Construction

8x36(1+7+7/7+14)+6x19(1+9+9)+1x19(1+9+9)

836K –rope construction with compacted outer strands.

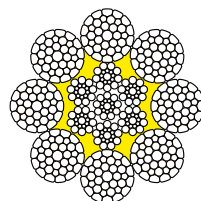
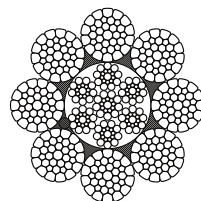
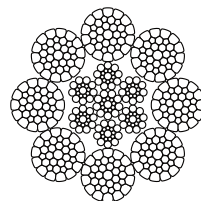
836KF –rope construction with compaction of rope outer strands and 8 fiber fillers between outer and inner rope layers.

836KP –rope construction with compaction of rope outer strands and plastic coated core.

Advantages in comparison with standard solutions

- high flexibility
- increased wear resistance of wires high strength
- less pulley groove wear
- increased resistance against transverse crushing
-

Diameter, mm	Weight of 1000 m, kg	Rope grade, N/mm ²			
		1670	1770	1860	1960
		Minimum breakingload, kN			
39.0	6986	1036	1098	1154	1216
42.0	8185	1224	1298	1364	1437
45.5	9601	1423	1508	1585	1670
46.5	10176	1508	1599	1680	1770
50.0	11790	1748	1853	1947	2052
52.0	12507	1854	1965	2065	2176
56.0	14630	2157	2287	2403	2532
57.0	15081	2236	2370	2490	2624
60.0	16620	2465	2613	2746	–
62.0	17730	2627	2784	2926	–
64.0	18728	2766	2932	3081	–
67.0	20509	3038	3220	3384	–
70.0	22050	3281	3478	–	–
76.0	26620	3957	4194	–	–
77.0	26648	4085	4329	–	–
80.0	29170	4324	4583	–	–



- Underground mining
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Industry-based solution Talpa

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Talpa PM

plastic-sheathed 8-strand wire ropes
with compaction of outer strands

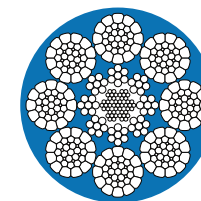
Construction

8x37(1+6.6+12+12)+8x7(1+6)+6x7(1+6)+1x7(1+6)

Advantages in comparison with standard solutions

- reduced contact stress between strands as well as between rope and pulley grooves
- increased wear resistance
- increased corrosion resistance, including extended rope lubrication
- increased resistance against transverse crushing
- extended rope service life

Diameter		Rope weight, kg/m	Minimum breakingload, kN
inch	mm		
2-1/4	57.2	14.9	2344
2-3/8	60.3	16.7	2627
2-1/2	63.5	18.6	2925
2-5/8	66.7	20.3	3193
2-3/4	69.9	22.5	3536



- Surface mining



Talpa 36

multistrand non-rotating wire ropes

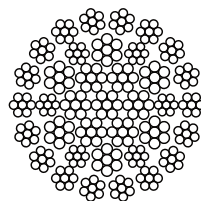
Construction

18x7+6x7/6x7+6x7+1x7

Advantages in comparison with standard solutions

- high flexibility high strength
- reduced friction between outer wires in strands
- and pulley groove surface rotation resistance
-

Diameter, mm	Weight of 1000 m, kg	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
38	6070	832	938	1040
40	6720	923	1040	1150
42	7390	1020	1150	1270
44	8220	1130	1270	1410
46	8980	1230	1390	1540
48	9670	1330	1500	1656
50	10480	1440	1630	1799
52	11360	1560	1760	1948
54	12360	1700	1920	2122



■ Underground mining

Industry-based solution Talpa

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Talpa 36K

multistrand non-rotating wire ropes
with compacted outer strands

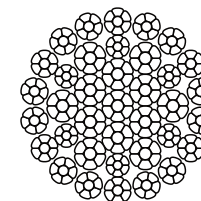
Construction

18x7+6x7/6x7+6x7+1x7

Advantages in comparison with standard solutions

- high strength
- high abrasion resistance
- high fatigue failure resistance
- expanded contact with bearing surface area
- less wear of sheaves and capstans rotation
- resistance

Diameter, mm	Weight of 1000 m, kg	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
38	6970	987	1110	1230
40	7780	1110	1250	1380
42	8530	1210	1370	1510
44	9350	1330	1500	–
46	10270	1460	1640	–
48	11210	1590	1790	–
50	12070	1720	1930	–
52	13070	1850	2090	–
54	14180	2020	2270	–



■ Underground mining



Talpa 36KP

multistrand non-rotating wire ropes
with compacted outer strands
and plastic coated core

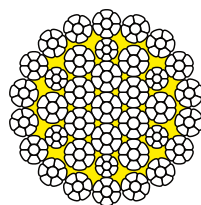
Construction

18x7+6x7/6x7+6x7+1x7

Advantages in comparison with standard solutions

- high strength
- high abrasion resistance
- high fatigue failure resistance
- expanded contact with bearing surface area
- less wear of sheaves and capstans
- rotation resistance

Diameter, mm	Weight of 1000 m, kg	Rope grade, N/mm ²		
		1570	1770	1960
		Minimum breakingload, kN		
38	6970	987	1110	1230
40	7780	1110	1250	1380
42	8530	1210	1370	1510
44	9350	1330	1500	-
46	10270	1460	1640	-
48	11210	1590	1790	-
50	12070	1720	1930	-
52	13070	1850	2090	-
54	14180	2020	2270	-



■ Underground mining

Industry-based solution Talpa

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Talpa S3

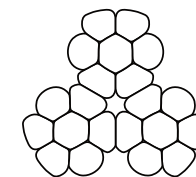
3-strand wireline ropes

Construction

3x7(1+6)

The ropes are used as wirelines for blast-hole drilling rigs. Ropes are manufactured from galvanized wire class B and are lubricated.

Diameter		Rope weight, kg/m	Minimum breakingload , kN
inch	mm		
3/16	4.76	0.110	24.5
1/4	6.35	0.195	40.0



Polymer-sheathed wire ropes

For maximum surface protection of steel ropes, we have designed wire ropes with a polymer sheath covering outer strands.

For coating, we use an ultra-strong polymer that reliably adheres to the rope surface and retains its structure for a long time during operation.

Thanks to their design, Talpa wire ropes have longer operational life compared to standard ropes, which significantly reduces the number of rope replacements and leads to less maintenance activities and lower cost of equipment ownership.



Manufacture of guy ropes

In addition to steel ropes, Severstal Wire Ropes produces guy ropes structures and products that are used on mining excavators. We produce guy ropes for almost all models of domestic and foreign excavators, including walking excavators –draglines. In contrast with comparable products, the products manufactured by Severstal Wire Ropes provide adjustable stretch, which reduces time necessary for installation of guy ropes on an excavator. Our own engineering department and wide experience in this area allow us to manufacture individual products for a specific client's request.



Mesh grips for steel wire ropes

For easier installation of a new rope, we offer our customers special steel wire mesh grips. They are tightened securely on the free ends of the old rope and the new one connecting them firmly. After that, the rope is installed on the winding hoist drum.



Industry-based solution Talpa





steel wire ropes, slings, wires, wire fences



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