

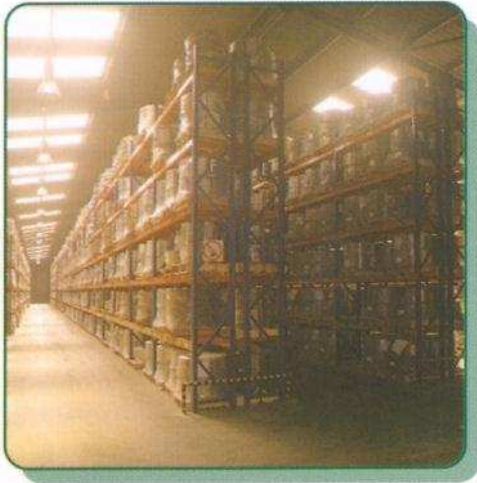
FISHING WIRE ROPES



CORDOARIA

OLIVEIRA SÁ





CORDOARIA OLIVEIRA SÁ was established in 1825 and is the only Portuguese company producing steel wire ropes. We are the market leader for steel wire ropes of all types, but mainly for fishing, lifting, cranes and all elevation systems.

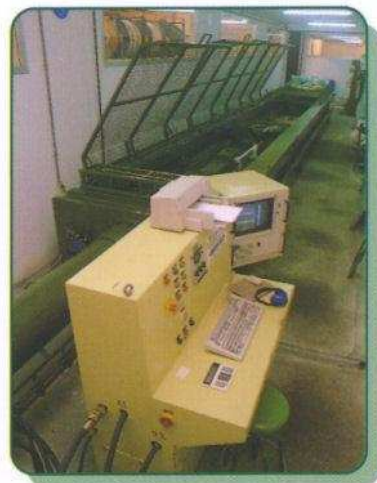
Our steel wire ropes are produced according to the most advanced technology, using always the best steel available. The fibre cores are produced at our own factory so that we can guarantee consistent quality. We have lubrication suitable for each situation.

CORDOARIA OLIVEIRA SÁ has a quality assurance system according to ISO 9001/2000 and has been certified by APCER (Associação Portuguesa de Certificação, IQNET member).


All wire rope sold by CORDOARIA OLIVEIRA SÁ can be provided with mill certificates. On request, certificates can be issued in accordance with Det Norske Veritas and Lloyd's Register of Shipping.

CORDOARIA OLIVEIRA SÁ has a modern, fully equipped Research and Development Department which supports production and ensures that the optimum quality, for all products, is supplied to our customers. We can provide detailed technical specifications and test data as required by our customers.

We must point out the traditional presence of CORDOARIA OLIVEIRA SÁ in all important markets, around the world.

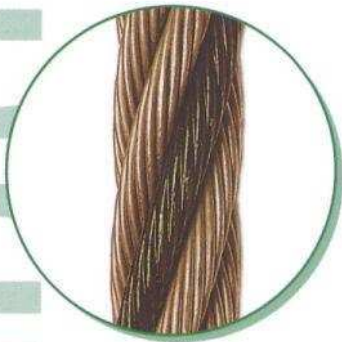


**6 X 19 SEALE - CF
FIBER CORE**




Nominal rope diameter	Approximate mass	Minimum breaking force	
		1570 N/mm ²	
mm	kg/m	kN	kgf
12	0,51	76,6	7.800
13	0,62	94,0	9.600
14	0,69	106	10.700
15	0,82	124	12.700
16	0,95	145	14.800
17	1,05	159	16.200
18	1,20	182	18.600
19	1,26	192	19.600
20	1,47	224	22.800
22	1,72	261	26.600
24	2,04	310	31.600
26	2,48	388	39.500
28	2,86	447	45.500
30	3,27	512	52.100
32	3,70	579	59.000

- It is the wire rope construction more used around the world;
- Very good relation: abrasion resistance/corrosion resistance.
- Parallel Lay to avoid the crossing of the single wires in the strands.
- Easy to splice and handle.
- Wire rope suitable for bottom trawlers, shrimp trawlers and pair trawlers.




**6 X 19 SEALE - CWR
STEEL CORE**



Nominal rope diameter	Approximate mass	Minimum breaking force	
		1570 N/mm ²	
mm	kg/m	kN	kgf
18	1,36	197	20.100
19	1,45	210	21.400
20	1,68	244	24.800
22	1,94	282	28.800
24	2,32	338	34.400
26	2,82	422	43.000
28	3,22	482	49.100
29	3,41	518	52.700
30	3,70	561	57.100
32	4,20	638	64.900

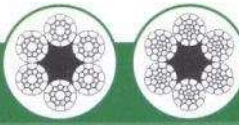
- Very good relation: abrasion resistance/corrosion resistance;
- Parallel Lay to avoid the crossing of the single wires in the strands.
- Higher breaking load, compared to the steel wire ropes with synthetic core.
- Low elongation and very low diameter reduction.
- Good resistance against crushing.
- Wire rope suitable for pelagic trawlers, shrimp trawlers and pair trawlers.

**6 X 19 SEALE - CWR
MIXED CORE**



Nominal rope diameter	Approximate mass	Minimum breaking force	
		1570 N/mm ²	
mm	kg/m	kN	kgf
18	1,28	190,8	19.500
19	1,36	202,3	20.600
20	1,58	235,2	24.000
22	1,84	273,2	27.900
24	2,19	326,3	33.300
25	2,42	360,9	36.800
26	2,65	406,9	41.500
28	3,05	466,5	47.600
30	3,49	540,5	55.100
32	3,97	613,3	62.500

- Very good relation: abrasion resistance/corrosion resistance;
- Parallel Lay to avoid the crossing of the single wires in the strands.
- The core of the wire rope is a combination of steel and fiber, which results in a high breaking load, less elongation and a better resistance against crushing, with an internal lubrication that lasts longer.
- Easy to splice and handle.
- Wire rope suitable for bottom trawlers, shrimp trawlers and pair trawlers.



Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
		kN	Kgf
14	0,75	115	11.700
16	1,03	159	16.200
18	1,30	199	20.300
20	1,52	233	23.800
22	1,91	300	30.500
24	2,25	346	35.200
25	2,45	386	39.300
26	2,68	422	43.000
28	2,96	451	45.900
30	3,26	497	50.600
32	3,82	591	60.200
34	4,27	660	67.200
36	4,78	738	75.100

SUPER YELLOW FIN® - FIBER CORE

Constr. 6 x K 19 Seale - from 14 mm to 26 mm

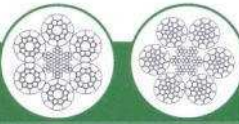
Constr. 6 x K 26 Seale Warrington - from 28 mm to 36 mm



SUPER YELLOW FIN® is a compacted steel wire rope extremely strong. It's utilisation is particularly recommended for applications where the following characteristics are necessary:

- Higher resistance to abrasion
- Higher resistance against crushing
- Higher resistance to fatigue
- Higher breaking strength
- Reduced wear when passing through blocks and guiding gear
- Lower tendency to untwist
- Less elongation of wire rope

It is recommended for purse seining, (tuna fishing) and it is also excellent to be used in trawling.



Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
		kN	Kgf
14	0,85	124	12.700
16	1,15	168	17.100
18	1,46	212	21.600
20	1,72	251	25.600
22	2,16	315	32.100
24	2,52	368	37.500
25	2,75	411	41.900
26	3,01	451	45.900
28	3,31	480	48.900
30	3,68	542	55.200
32	4,33	643	65.500
34	4,80	714	72.600
36	5,39	801	81.500

SUPER YELLOW FIN® - STEEL CORE

Constr. 6 x K 19 Seale - from 14 mm to 26 mm

Constr. 6 x K 26 Seale Warrington - from 28 mm to 36 mm

6 X K26SW - CF FIBER CORE



Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
		kN	kgf
19	1,46	232	23.700
20	1,60	256	26.100
21	1,78	273	27.800
22	1,92	307	31.300
24	2,29	365	37.200
25	2,52	402	41.000
26	2,68	428	43.700
28	3,17	506	51.600
30	3,61	576	58.700
32	4,11	655	66.800
34	4,64	739	75.300
36	5,20	829	84.600

SUPER ATLANTIC® the heavy compacted fishing wire rope especially designed for pelagic super trawlers and demersal deep sea trawlers. It is produced in the construction 6xK26SW in order to offer a higher grade of flexibility and a very strong abrasion resistance.

Super Atlantic has the following characteristics:

- **Very high breaking load**
- **Very low elongation**
- **Very strong abrasion resistance**
- **Excellent fatigue resistance**
- **High performance in tough working conditions**
- **Highest quality wire, made according to our specifications and especially designed for trawling**

6 X K26SW - CWR STEEL CORE



Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
		kN	kgf
20	1,79	266	27.200
22	2,15	320	32.700
24	2,57	390	39.700
25	2,81	426	43.500
26	3,00	461	47.100
28	3,55	552	56.200
30	4,03	632	64.500
32	4,60	722	73.600
34	5,20	817	83.300
36	5,80	913	93.100
38	6,45	1.015	103.500
40	7,21	1.133	115.500
42	7,91	1.244	126.800
44	8,70	1.367	139.400

Also available:
Plastic core impregnation

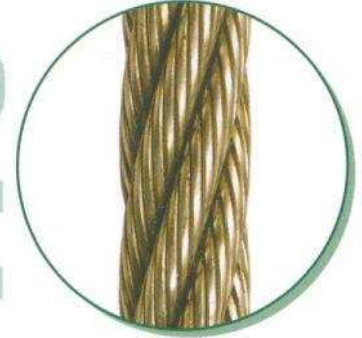


SUPER ATLANTIC®

6 X K26SW - CF FIBER CORE			
Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
mm	kg/m	kN	kgf
19	1,46	232	23.700
20	1,60	256	26.100
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30	3,61	576	58.700
32	4,11	655	66.800
34	4,64	739	75.300
36	5,20	829	84.600



ZINCAL COMPACT



ZINCAL COMPACT® is the newest type of steel wire rope manufactured by OLIVEIRA SÃ. It is a compacted wire rope with the construction 6xK26 Seale Warrington, and we manufacture it with steel and fiber core.

Zincal Compact has all the wires covered with a thick lay of **ZINC-ALUMINIUM** alloy, which gives a higher corrosion resistance to the wire rope.

- Excellent lifetime and performance
- Excellent abrasion and wear resistance
- Excellent resistance against crushing
- Excellent fatigue resistance
- Very high breaking load
- Lower elongation of the wire rope

Zincal Compact is the best wire rope for trawlers and beamers, where it is necessary to have a very good corrosion resistance added to all the other characteristics mentioned above.

This wire rope is produced with **BEZINAL®** wires supplied from **BEKAERT®**.

6 X K26SW - CWR STEEL CORE			
Nominal rope diameter	Approximate mass	Minimum breaking force 1570 N/mm ²	
mm	kg/m	kN	kgf
20	1,79	266	27.200
22	2,15	320	32.700
24	2,57	390	39.700
25	2,81	426	43.500
26	3,00	461	47.100
28	3,55	552	56.200
30	4,03	632	64.500
32	4,60	722	73.600
34	5,20	817	83.300
36	5,80	913	93.100
38	6,45	1.015	103.500
40	7,21	1.133	115.500
42	7,91	1.244	126.800
44	8,70	1.367	139.400



ZINCAL

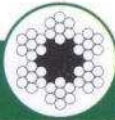
SEINE 22



Nominal rope diameter	Approximate mass	Minimum breaking force	
		1770 N/mm ²	
mm	kg/m	kN	kgf
14	0,60	91,6	9.300
16	0,81	123	12.600
18	1,06	160	16.300
19	1,16	175	17.900
20	1,33	201	20.500
22	1,51	229	23.300
24	1,83	278	28.300
25	2,05	310	31.600
26	2,18	331	33.800

- Flexible purse wire, very popular on small and medium purse seiners.
- Thicker outerwires, compared to 6x24S+7CF.
- Very easy to handle and to splice.
- Dual tensile strength - higher MBL.
- Good resistance against crushing.
- Reduced wear on sheaves and guiding gear.
- No contact between the wires in the strands.

6 X 7 - CF FIBER CORE



Nominal rope diameter	Approximate mass	Minimum breaking force	
		1570 N/mm ²	
mm	kg/m	kN	kgf
8	0,22	34,3	3.500
9	0,27	42,7	4.400
10	0,34	52,9	5.400
11	0,40	63,2	6.400
12	0,48	75,5	7.700
13	0,56	87,8	9.000
14	0,67	106	10.800
16	0,87	137	14.000
18	1,10	172	17.500
20	1,34	210	21.400
22	1,66	261	26.600

COMBINATION ROPES 6 STRAND-WIRE ROPE CORE



Nominal rope diameter	Approximate mass	Minimum breaking force	
mm	kg/m	kN	kgf
8	0,09	14,1	1.440
10	0,15	22,7	2.350
12	0,21	32,8	3.340
14	0,29	46,7	4.570
16	0,41	65,1	6.640
18	0,50	79,4	8.100
20	0,59	93,8	9.570
22	0,79	126	12.800
24	0,92	146	14.900
26	1,14	183	18.600
28	1,29	206	21.000
30	1,50	239	24.400
32	1,73	277	28.300
34	1,92	308	31.400
36	2,20	352	35.900
38	2,50	401	40.900
40	2,76	443	45.100



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