

**COMBINATION ROPES  
6 STRAND  
WIRE ROPE CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE	
mm	Kg/m	kN	kgf
8	0,09	14	1.440
10	0,15	23	2.350
12	0,21	33	3.340
14	0,29	47	4.570
16	0,41	65	6.640
18	0,50	79	8.100
20	0,59	94	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

- FC AND IWRC
- A FLEXIBLE ROPE WITH VARIOUS APPLICATIONS SUCH AS IN FISHING, INDUSTRY, PLAYGROUNDS
- FISHING - SELVEDGE ROPE, HEADLINE, FRAME LINES
- GOOD ABRASION, LONG LIFETIME, EASY HANDLING

**6x7  
FIBER CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/MM <sup>2</sup>	
mm	Kg/m	kN	kgf
8	0,22	34	3.500
9	0,27	43	4.400
10	0,34	53	5.400
11	0,40	63	6.400
12	0,48	76	7.700
13	0,56	88	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

- ROPE TO BE USED IN SMALL TRAWLERS AND DOUBLE / TRIPLE RIGGED VESSELS (SHRIMPERS)
- THICK OUTER WIRES WITH GOOD LIFETIME
- HIGH STRENGTH ROPE

**SEINE  
22**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1770 N/MM <sup>2</sup>	
mm	Kg/m	kN	kgf
14	0,60	92	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 + 7c
- VERY EASY TO HANDLE AND SPLICE
- DUAL TENSILE STRENGTH - HIGHER MBL
- GOOD RESISTANCE AGAINST CRUSHING
- REDUCED WEAR ON SHEAVES AND GUIDING GEAR AND PURSE SEINE RINGS
- NO CONTACT BETWEEN THE WIRES IN THE STRANDS



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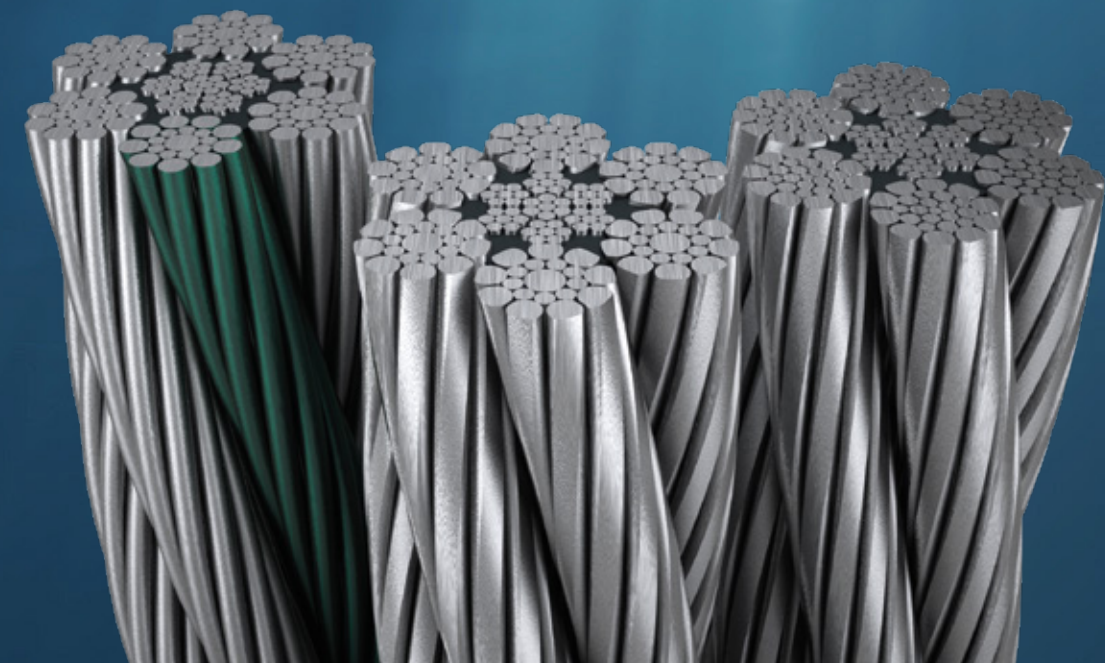
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# FISHING WIRE ROPES



**OLIVEIRA** was established in 1825 and is the only Portuguese company producing steel wire ropes. We are a worldwide market leader for steel wire ropes, especially for fishing, lifting, cranes and 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 kind of application.

**OLIVEIRA** has a quality assurance system according to ISO 9001/2008 and has been certified by APCER (Associação Portuguesa de Certificação, IQNET member).

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

**OLIVEIRA** 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 must point out the traditional presence of **OLIVEIRA** in all important markets around the world.

In November 2010, WireCo WorldGroup acquired Oliveira Sá Group, leader in the production of wire and synthetic ropes. Being part of the WireCo Group, Oliveira Sá became an even stronger player in the market.





# ZINCAL COMPACT®

ZINCAL COMPACT® is another very successful product manufactured by OLIVEIRA SÁ. It is a compacted wire rope with the construction 6x K26WS, manufactured both with steel or 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 and an improved lifetime due to this special coating.

- 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
- BETTER GREASE ADHERENCE

ZINCAL COMPACT® is the ULTIMATE wire rope for trawlers and beamers, where a good resistance against corrosion is required.

**6x K26 WARRINGTON SEALE FIBER CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
mm	Kg/m	kN	kgf
19	1,46	226	23.000
20	1,61	248	25.320
22	1,93	297	30.330
24	2,29	354	36.140
25	2,52	390	39.790
26	2,69	416	42.400
28	3,18	491	50.080
30	3,62	558	56.950
32	4,12	636	64.820
34	4,64	717	73.120
36	5,21	805	82.060

**6x K26 WARRINGTON SEALE STEEL CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
mm	Kg/m	kN	kgf
20	1,79	282	28.720
22	2,15	339	34.550
24	2,57	405	41.330
25	2,81	442	45.070
26	3,00	473	48.220
28	3,55	558	56.940
30	4,02	633	64.540
32	4,59	723	73.710
34	5,19	818	83.400
36	5,80	913	93.110
38	6,44	1015	103.460
40	7,19	1131	115.360
42	7,90	1243	126.700
44	8,69	1367	139.440

Also available with plastic impregnation in the core.

# SUPER ATLANTIC®

SUPER ATLANTIC® HEAVY COMPACTED FISHING WIRE ROPES especially designed for large pelagic trawlers, midwater trawlers and demersal trawlers. It is produced in the construction 6x K (compacted) 26 WS (Warrington Seale) in order to offer an higher grade of flexibility and a very strong abrasion resistance.

- VERY HIGH BREAKING LOAD / VERY LOW ELONGATION / STRONG ABRASION RESISTANCE
- SPECIAL GREASE FOR INCREASING SWR LIFETIME BY REDUCTION OF ABRASION AND CORROSION
- HYDRAULIC ROLLER COMPACTING - INHOUSE DESIGNED EQUIPMENT - TO AVOID DAMAGE DURING COMPACTING
- EXCELLENT FATIGUE RESISTANCE
- HIGH PERFORMANCE IN TOUGH WORKING CONDITIONS
- HIGHEST QUALITY WIRE, MADE ACCORDING TO OUR SPECIFICATIONS AND ESPECIALLY DESIGNED FOR TRAWLING

All individual wires made inhouse WCWG - ultimate control over quality. Every finished product is tested in test bench and all data is recorded accordingly and kept for a certain time to trace back, in case needed.

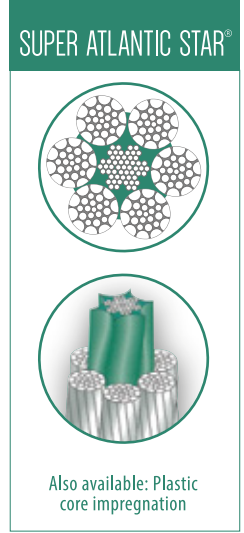
**6x K26 WARRINGTON SEALE FIBER CORE**

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**6x K26 WARRINGTON SEALE STEEL CORE**

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mm	Kg/m	kN	kgf
20	1,79	282	28.720
22	2,15	339	34.550
24	2,57	405	41.330
25	2,81	442	45.100
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28	3,55	558	56.950
30	4,02	633	64.540
32	4,59	723	73.700
34	5,19	818	83.400
36	5,80	913	93.100
38	6,44	1015	103.460
40	7,19	1131	115.370
42	7,90	1243	126.700
44	8,69	1367	139.440

REV 02/2017



# SUPER YELLOW FIN®

SUPER YELLOW FIN® is a compacted steel wire rope with superior characteristics.

- VERY FLEXIBLE ROPE
- HIGHER RESISTANCE AGAINST CRUSHING
- HIGHER RESISTANCE TO FATIGUE
- HIGHER BREAKING STRENGTH
- REDUCED WEAR WHEN PASSING THROUGH BLOCKS, GUIDING GEAR AND PURSE SEINE RINGS
- LOWER TENDENCY TO UNTWIST
- LESS ELONGATION OF WIRE ROPE

It is fully recommended for purse seining (TUNA FISHING), but also excellent performance in trawling.

SUPER YELLOW FIN®, the most used Purse Seine Wire Rope in the world!

**FIBER CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
		kN	kgf
14	0,77	116	11.830
16	1,01	156	15.910
18	1,29	198	20.230
19	1,43	217	22.130
20	1,55	235	23.960
21	1,72	263	26.820
22	1,90	293	29.880
24	2,26	348	35.490
25	2,47	379	38.650
26	2,70	415	42.320
28	3,05	464	47.320
30	3,34	505	51.500
32	3,95	600	61.180
34	4,51	683	69.650
36	5,04	760	77.500

**STEEL CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
		kN	kgf
14	0,87	130	13.260
16	1,14	170	17.340
18	1,45	215	21.920
20	1,75	256	26.110
21	1,93	284	28.960
22	2,14	315	32.120
24	2,54	372	37.930
25	2,77	415	42.320
26	3,02	453	46.190
28	3,44	510	52.010
30	3,82	590	60.180
32	4,45	665	67.810
34	5,06	750	76.480
36	5,66	841	85.760

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# GREEN STRAND®

- MOST COMMON FOR SMALL AND MEDIUM FISHING VESSELS
- IT HAS A VERY GOOD RELATION: ABRASION RESISTANCE /CORROSION RESISTANCE
- PARALLEL LAY TO AVOID THE CROSSING OF THE SINGLE WIRES IN THE STRANDS
- THIS WIRE ROPE IS SUITABLE FOR BOTTOM, SHRIMP AND PAIR TRAWLERS AND PURSE SEINERS

- EASY TO SPLICE AND HANDLE

**6x 19 SEALE STEEL CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
		kN	kgf
18	1,35	198	20.190
19	1,50	217	22.130
20	1,69	250	25.490
22	1,95	295	30.080
24	2,33	351	35.790
26	2,82	427	43.540
28	3,22	495	50.480
30	3,69	575	58.630
32	4,24	650	66.280

- HIGHER BREAKING LOAD, COMPARED TO THE STEEL WIRE ROPES WITH SYNTHETIC CORE
- LOW ELONGATION AND VERY LOW DIAMETER REDUCTION
- GOOD RESISTANCE AGAINST CRUSHING

**6x 19 SEALE MIXED CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
		kN	kgf
18	1,28	191	19.500
19	1,36	202	20.600
20	1,58	235	24.000
22	1,84	273	27.900
24	2,19	326	33.300
25	2,42	361	36.800
26	2,65	407	41.500
28	3,05	467	47.600
30	3,49	541	55.100
32	3,97	613	62.500

- THE CORE OF THE WIRE ROPE IS A COMBINATION OF STEEL AND FIBER, WHICH RESULTS IN A HIGHER BREAKING LOAD
- LESS ELONGATION AND BETTER RESISTANCE AGAINST CRUSHING
- INTERNAL LUBRICATION THAT LASTS LONGER
- EASY TO SPLICE AND HANDLE
- HIGHER BREAKING LOAD AND MORE STABLE WIRE ROPE COMPARED TO FC

**6x 19 SEALE FIBER CORE**

NOMINAL ROPE DIAMETER	APPROXIMATE MASS	MINIMUM BREAKING FORCE 1570 N/mm <sup>2</sup>	
		kN	kgf
12	0,53	79	8.080
13	0,62	96	9.750
14	0,71	109	11.110
15	0,83	126	12.850
16	0,95	145	14.790
17	1,06	163	16.620
18	1,19	185	18.870
19	1,33	203	20.700
20	1,49	228	23.210
22	1,72	270	27.760
24	2,05	321	32.940
26	2,49	389	39.670
28	2,85	447	46.600
30	3,27	512	53.330
32	3,74	585	59.650

- EASY TO SPLICE AND HANDLE

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