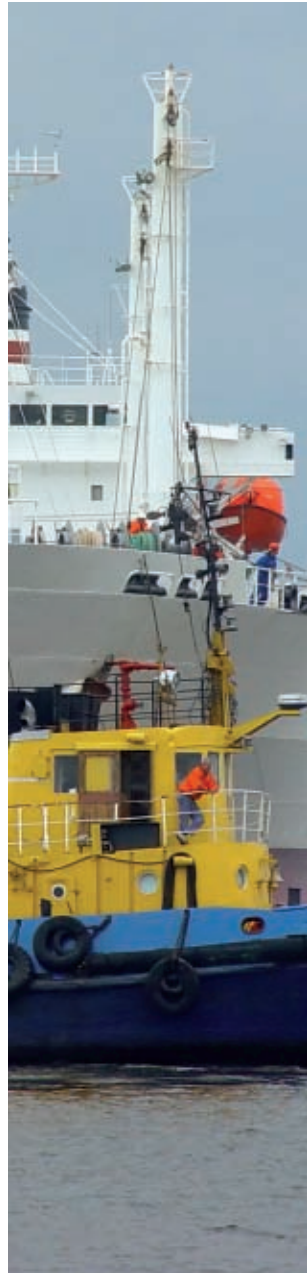


offshore ropes



CABLES Y ALAMBRES ESPECIALES, S.A.



the company

Our Wire Ropes for the Offshore Oil & Gas Industry are synonymous of High Quality.

Cables y Alambres Especiales, S.A. is one of the oldest European manufactures of steel wire and wire rope.

Our long experience, since 1898, combined with the best raw material guarantee high quality for this tough market.

We can supply the best solutions for:

- Mooring
- Drilling
- Offshore Handling
- Towing
- Well Service



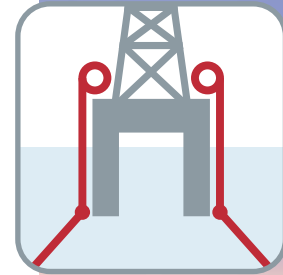
MOORING



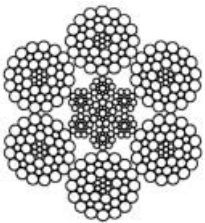
Characteristics

- High breaking strength
- Excellent Corrosion resistant
- Good abrasion resistant

Constructions

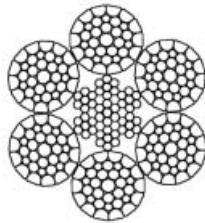


6 x 47WS - IWRC up to 120 mm



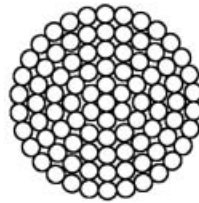
Ø mm	Weight Kg/m	Breaking Load Kn 2.160
52	11,00	2.160
54	12,40	2.400
58	13,90	2.680
60	15,50	2.980
64	17,30	3.280
67	19,00	3.580
71	20,80	3.996
74	22,80	4.332
77	24,70	4.668
80	26,80	5.004
83	29,00	5.364
87	31,30	5.844
90	33,80	6.228
96	38,70	7.020
103	44,00	7.980
108	50,80	8.290
115	56,90	9.250
120	61,10	11.400

6 x K36WS - IWRC up to 60 mm

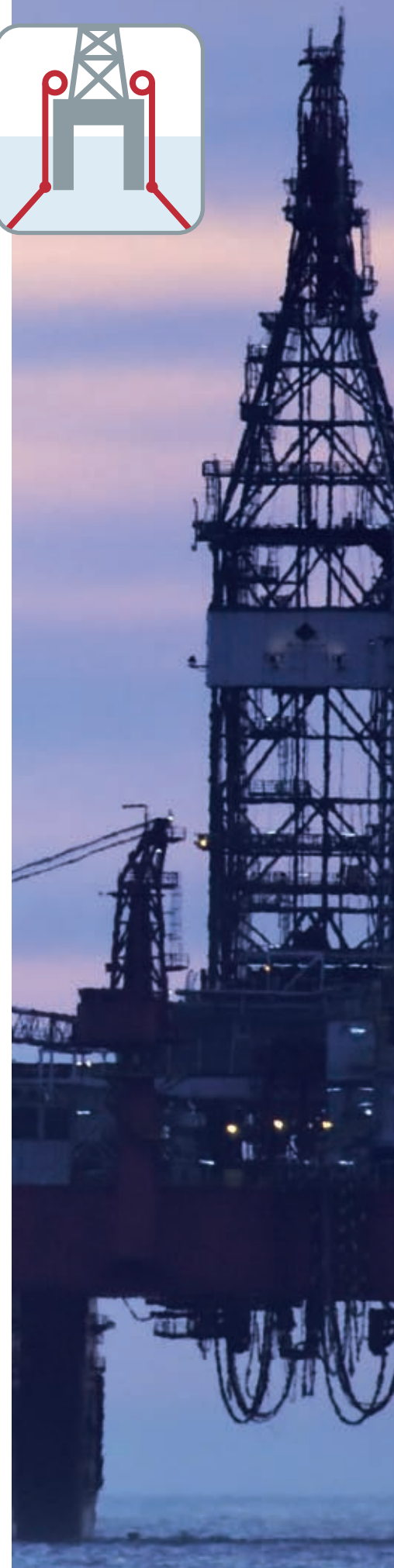


Ø mm	Weight Kg/m	Breaking Load Kn 2.160
30	4,18	795
32	4,72	903
34	5,15	950
36	5,95	1.105
38	6,50	1.178
40	7,20	1.300
42	7,95	1.425
44	8,65	1.505
46	9,35	1.670
48	10,40	1.910
50	11,30	1.980
52	12,10	2.290
54	13,40	2.510
56	14,50	2.810
58	15,00	2.900
60	16,50	3.220

Spiral Strands up to 90 mm



Ø mm	Weight Kg/m	Breaking Load Kn
30	4,41	875
35	6,09	1.180
41	8,42	1.600
44	9,87	1.950
48	11,20	2.200
51	12,70	2.525
55	14,50	2.950
60	17,30	3.500
65	20,50	3.960
68	22,50	4.385
70	24,00	4.750
76	27,40	5.700
80	31,00	6.100
85	35,00	6.700





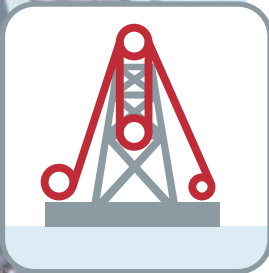
DRILLING

Characteristics

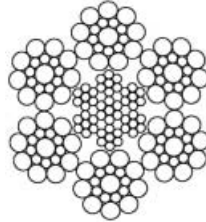
- Hard work
- Excellent bend fatigue
- Good flexibility
- Good resistant to abrasion

Constructions

Drilling lines

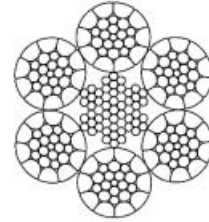


6 x 19S - IWRC
up to 50 mm

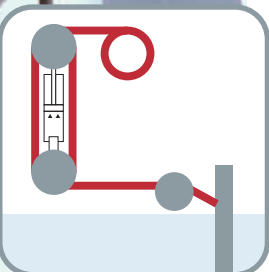


∅ mm	Weight Kg/m	Breaking Load Kn EIPS	Breaking Load Kn EEIPS
26	2,75	469	506
29	3,48	578	636
32	4,30	711	782
35	5,21	854	943
38	6,19	1.010	1.112
42	7,26	1.170	1.300
45	8,44	1.360	1.500
48	9,67	1.550	1.710
52	11,00	1.760	1.930

6 x K26WS - IWRC
up to 50 mm



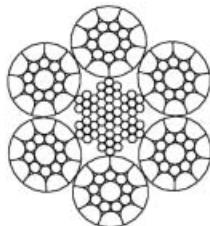
∅ mm	Weight Kg/m	Breaking Load Kn 1.960	Breaking Load Kn 2.160
26	3,15	568	600
28	3,61	648	690
30	4,18	745	795
32	4,72	830	903
34	5,15	900	950
36	5,95	1.045	1.105
38	6,50	1.142	1.178
40	7,20	1.275	1.300
42	7,95	1.400	1.425
44	8,65	1.485	1.505
46	9,35	1.640	1.670
48	10,40	1.885	1.910
50	11,30	1.950	1.980



Riser Tensioner Lines

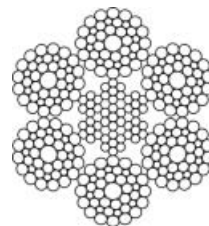


6 x K19S - IWRC
up to 40 mm



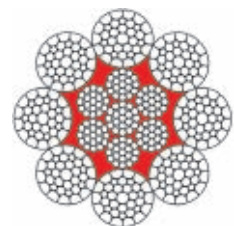
∅ mm	Weight Kg/m	Breaking Load Kn EIPS
26	3,18	515
29	3,98	640
32	4,95	805
35	5,95	965
38	7,11	1.140
40	7,60	1.320

6 x 41WS - IWRC
up to 72 mm



∅ mm	Weight Kg/m	Breaking Load Kn EIPS	Breaking Load Kn EEIPS
45	8,90	1.350	1.525
52	11,50	1.720	1.900
54	13,00	1.950	2.150
56	13,95	2.060	2.280
58	14,80	2.180	2.400
64	17,20	3.000	3.280
68	20,40	3.300	3.575
72	23,50	3.520	3.900

8 x K36WS - IWRC
up to 72 mm



∅ mm	Weight Kg/m	Breaking Load Kn 1.770	Breaking Load Kn 1.960
45	9,15	1.600	1.810
52	12,10	1.960	2.200
54	13,50	2.200	2.500
58	14,60	2.520	2.750
64	18,90	3.200	3.500

OFFSHORE HANDLING



Characteristics

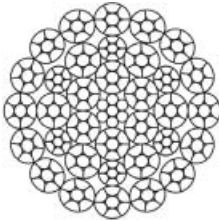
- Low rotation
- High Strength
- Low stretch
- Good resistant to abrasion

Constructions

Crane ropes

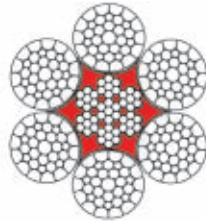


Flex 35 CT up to 90 mm



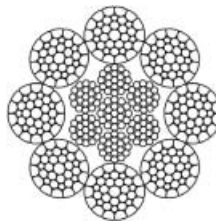
∅ mm	Weight Kg/m	Breaking Load Kn 1.960	Breaking Load Kn 2.160
32	5,10	925	1.015
34	5,76	1.040	1.100
36	6,50	1.150	1.220
38	7,15	1.300	1.380
40	8,09	1.420	1.510
42	8,88	1.580	1.695
44	9,76	1.750	1.815
46	10,70	1.900	1.960
48	11,70	2.100	2.130
50	12,60	2.260	-
52	13,90	2.430	-
54	14,80	2.720	-
58	17,00	2.950	-
64	20,12	3.200	-
70	24,15	3.830	-
76	29,10	4.910	-

6 x K36WS - EPIWRC up to 90 mm

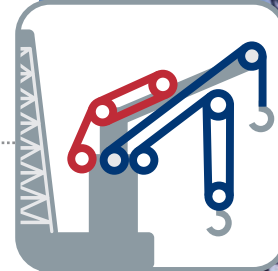


∅ mm	Weight Kg/m	Breaking Load Kn 2.160
25	2,83	540
26	3,15	600
28	3,61	690
30	4,18	795
32	4,72	903
34	5,15	950
36	5,95	1.105
38	6,50	1.178
40	7,20	1.300
42	7,95	1.425
44	8,65	1.505
46	9,35	1.670
48	10,40	1.910
50	11,30	1.980

8 x K36WS - IWRC up to 90 mm



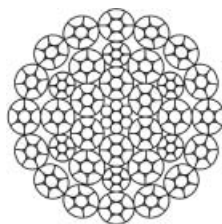
∅ mm	Weight Kg/m	Breaking Load Kn 2.160
25	3,07	640
26	3,27	678
28	3,89	800
30	4,40	910
32	5,10	1.035
34	5,72	1.166
36	6,40	1.300
38	7,18	1.470
40	7,90	1.620
42	8,74	1.710
44	9,61	2.030
46	10,35	2.035
48	11,30	2.215
50	12,25	2.405



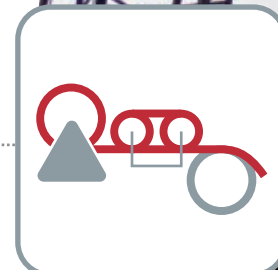
A&R Winch Ropes



Flex 35 CT up to 90 mm

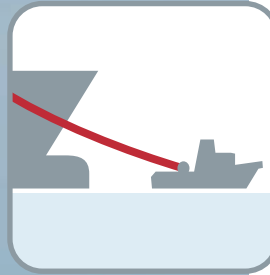


∅ mm	Weight Kg/m	Breaking Load Kn 1.960	Breaking Load Kn 2.160
44	9,76	1.750	1.815
46	10,70	1.900	1.960
48	11,70	2.100	2.130
50	12,60	2.260	-
52	13,90	2.430	-
54	14,80	2.720	-
58	17,00	2.950	-
64	20,12	3.200	-
70	24,15	3.830	-
76	29,10	4.910	-





TOWING



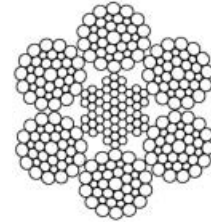
Characteristics

- High Strength
- Excellent corrosion resistant

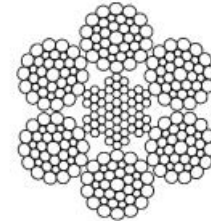
Constructions



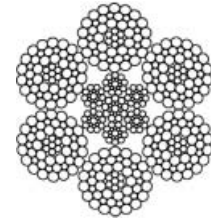
6 x 36WS - IWRC
up to 60 mm



6 x 47WS - IWRC
up to 90 mm



6 x 52WS - IWRC
up to 120 mm



∅ mm	Weight Kg/m	Breaking Load Kn 1.960	Breaking Load Kn 2.160
52	11,00	1.980	2.160
54	12,40	2.200	2.400
58	13,90	2.464	2.688
60	15,50	2.739	2.988
64	17,30	3.014	3.288
67	19,00	3.289	3.588
71	20,80	3.663	3.996
74	22,80	3.971	4.332
77	24,70	4.279	4.668
80	26,80	4.587	5.004
83	29,00	4.917	5.364
87	31,30	5.357	5.844
90	33,80	5.709	6.228
96	38,70	6.435	7.020
103	44,00	7.315	7.980
108	50,80	7.535	8.290
115	56,90	8.450	9.250
120	61,10	10.375	11.400



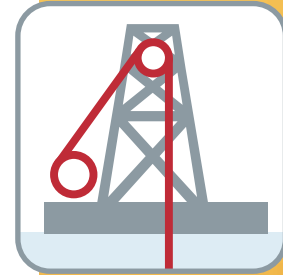
WELL SERVICE



Characteristics

- Long length
- No welding wires
- Strict Tolerances

Constructions



Wirelines

Strand lines

Wirelines According API9A

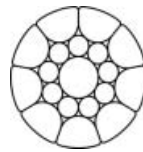


∅
in

1x16



1x19 CT



∅ in	Weight lb/1.000ft	Breaking L. lbf	Weight lb/1.000ft	Breaking L. lbf
0,092	73	4.700	85	6.250
0,108	100	6.600	111	8.470
0,125	127	8.440	148	11.100
0,140	220	12.800	232	17.850
0,160				

CABLE LAID

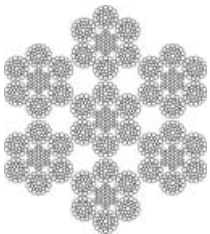
Characteristics

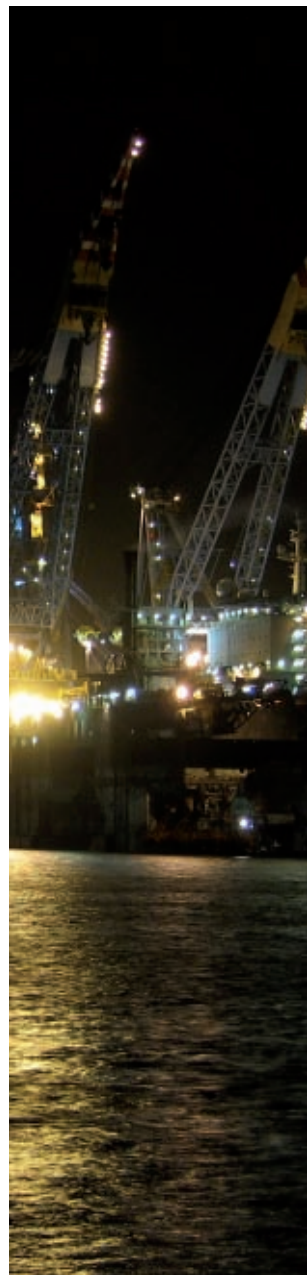
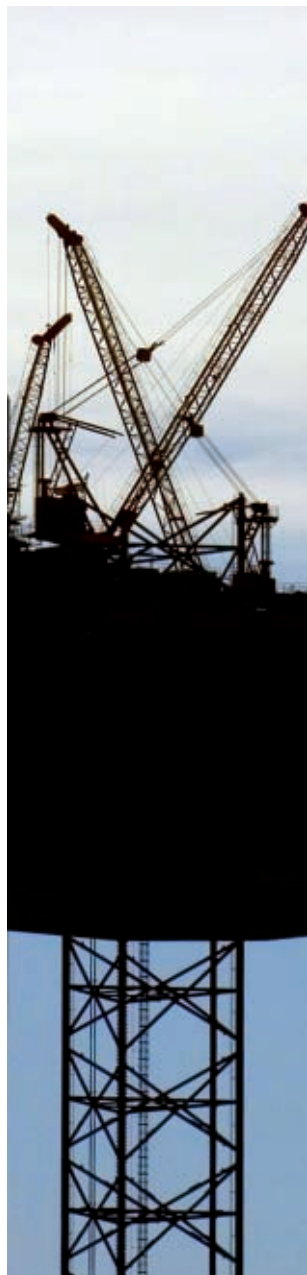
- Flexibility
- High breaking strength

Constructions



Any Construction
up to 150 mm





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