

NON - ROTATING ROPE WITH MULTI STRANDS





Non-Rotating multi-strand rope

Most of usual wire ropes have a certain tendency of untwisting under the action of hanging loads on account of their own helically wound strands.

In order to minimize such a tendency of rotation and/or torque in the ropes, ropes would be usually layed with cross lay construction where direction of lay of the wires is opposite to that of the strands.

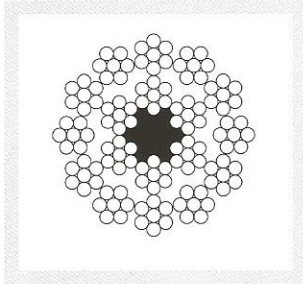
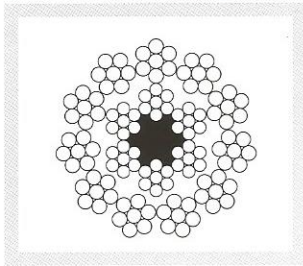
This concept can be enlarged in the Non-Rotating multi-strand ropes consisting of two or more layers of strands layed in opposite directions. However, although known as "Non-Rotating" or "Non-Spin", it must be understood that some slight rotation may occur in the early stages of working particularly on a long vertical lift.

"Compacted" Non-Rotating multi-strand rope

This "Compacted" multi-strand ropes create the maximum Breaking Load from the minimum rope diameter, which enables original equipment manufacturers to use smaller drums as well as to satisfy mandatory requirements for minimum factors of safety and minimum steel area.

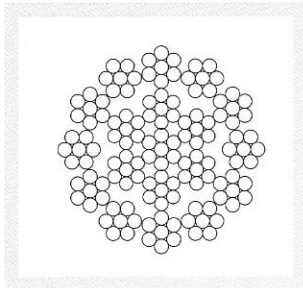
Ultimately, this "Compacted" multi-strand ropes achieve Min. B/Loads approx. 20% higher and smoother external surface than conventional multi-strand ones having the same diameter.

(1) 17×7+FC, 18×7+FC



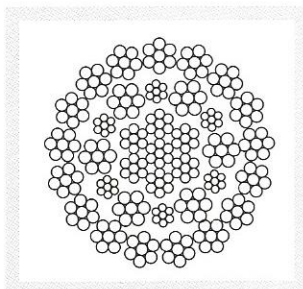
Diameter of Rope(mm)	Min B/LOAD						Approx. Weight per meter(kg/100m)
	180kg/mm ²		200kg/mm ²		220kg/mm ²		
	kN	Tonnef	kN	Tonnef	kN	Tonnef	
7	30.1	3.07	33.5	3.41			19.7
8	39.4	4.02	43.8	4.47			25.8
9	49.8	5.08	55.4	5.64			32.4
10	61.5	6.27	68.3	6.97			40.3
12	88.7	9.04	98.5	10.04			56.8
14	120.6	12.30	134.0	13.7			77.1
16	157.9	16.10	175.4	17.9			101.0
18	199.1	20.30	221.2	22.6	25.1	24.8	130.0
20	246.1	25.10	273.5	27.9	31.0	30.7	159.0
22	298.1	30.40	331.2	33.8	37.4	37.2	192.0
24	354.0	36.10	393.4	40.1	44.6	44.1	230.0
26	415.8	42.40	462.0	47.1			268.0

(2) 19×7



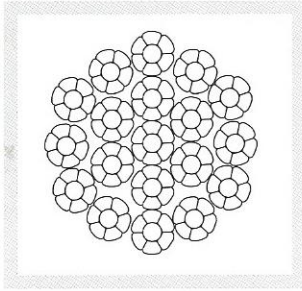
Diameter of Rope(mm)	Min B/LOAD						Approx. Weight per meter(kg/100m)
	180kg/mm ²		200kg/mm ²		220kg/mm ²		
	kN	Tonnef	kN	Tonnef	kN	Tonnef	
7	32.5	3.31	36.1	3.68	39.7	4.0	20.6
8	42.4	4.32	47.1	4.80	51.8	5.3	26.9
9	53.6	5.47	59.6	6.08	65.6	6.7	34.1
10	66.2	6.75	73.5	7.50	80.9	8.3	42.1
12	95.3	9.72	105.9	10.80	116.5	11.9	60.8
14	129.4	13.20	143.8	14.70	158.2	16.1	81.9
16	169.7	17.30	188.5	19.20	207.4	21.1	107.0
18	214.8	21.90	238.6	24.30	262.5	26.8	137.0
20	264.8	27.00	294.2	30.00	323.6	33.0	170.0
22	319.7	32.60	355.2	36.20	390.7	39.8	195.0
24	380.5	38.80	422.8	43.10	465.1	47.4	237.0
26	446.2	45.50	495.8	50.60	545.4	55.6	276.0

(3) 35×7 (WA)



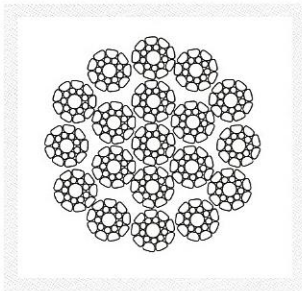
Diameter of Rope(mm)	Min B/LOAD						Approx. Weight per meter(kg/100m)
	180kg/mm ²		200kg/mm ²		220kg/mm ²		
	kN	Tonnef	kN	Tonnef	kN	Tonnef	
10	63.6	6.5	78.4	7.99	85.8	8.75	45.0
12	91.6	9.3	112.8	11.50	123.6	12.60	64.0
14	124.6	12.7	160.1	16.33	175.5	17.90	87.0
16	162.8	16.6	202.5	20.65	221.6	22.60	113.0
18	205.9	21.0	263.1	26.83	288.3	29.40	143.0
20	254.0	25.9	319.2	32.55	350.1	35.70	175.0
22	307.9	31.4	387.9	39.55	424.6	43.30	211.0
24	365.8	37.3	457.7	46.67	501.1	51.10	251.0
26	429.5	43.8	545.7	55.65	598.2	61.00	301.0
28	499.2	50.9	617.8	63.00	676.7	69.00	339.0
30	572.7	58.4	724.2	73.85	793.4	80.90	392.0
32	651.2	66.4	811.2	82.72	888.5	90.60	441.0
34	735.5	75.0	918.7	93.68			501.0
36	823.8	84.0	1029.7	105.00			563.0

(4) 19×7 CMP



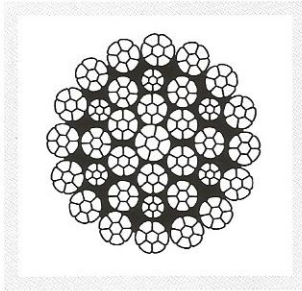
Diameter of Rope(mm)	Min B/LOAD				Approx. Weight per meter(kg/100m)
	200kg/mm ²		220kg/mm ²		
	kN	Tonnef	kN	Tonnef	
7.0	42	4.3			22.6
8.0	55	5.6			29.5
9.0	70	7.1			37.3
10.0	86	8.8			46.0
12.0	125	12.7			66.3
13.0	146	14.9			77.8
16.0	221	22.5			94.2
18.0	279	28.5	307	31.3	149.0
20.0	345	35.2	379	38.6	184.0
22.0	417	42.5	458	46.7	223.0
24.0	496	50.6	545	55.6	265.0
25.0	538	54.9			288.0
26.0	583	59.4			311.0
28.0	676	68.9			362.0

(5) 19×19(SL) CMP



Diameter of Rope(mm)	Min B/LOAD				Approx. Weight per meter(kg/100m)
	200kg/mm ²		220kg/mm ²		
	kN	Tonnef	kN	Tonnef	
8.0	55	5.6	60	6.2	31.2
9.0	69	7.1	76	7.8	39.5
10.0	86	8.7			48.8
12.0	124	12.6			70.3
13.0	145	14.8			82.4
16.0	220	22.4			125.0
18.0	279	28.4			158.0
20.0	343	35.0			195.0
22.0	417	42.5			236.0
24.0	495	50.5			281.0
25.0	537	54.8	590	60.2	305.0
26.0	582	59.3	638	65.1	330.0
28.0	674	68.7	740	75.5	382.0
30.0	774	78.9	850	86.7	439.0
32.0	881	89.8	967	98.6	499.0
34.0	990	101			563.3
35.0	1,049	107			598.0
36.0	1,108	113			632.0

(6) 35×7(WA) CMP

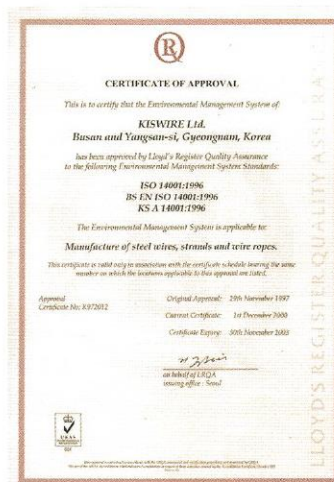


Diameter of Rope(mm)	Min B/LOAD				Approx. Weight per meter(kg/100m)
	at 200kgf/mm ²		at 220kgf/mm ²		
	kN	Tonnef	kN	Tonnef	
10.0	93	9.5	97	10.0	51.5
12.0	133	13.6	140	14.3	74.2
13.0	157	16.0	165	16.8	87.0
16.0	237	24.2	249	25.4	132.0
18.0	301	30.7	316	32.2	167.0
20.0	373	38.0	389	39.7	206.0
22.0	450	45.9	472	48.1	247.0
24.0	535	54.6	561	57.2	294.0
25.0	581	59.2	609	62.1	321.0
26.0	627	63.9	658	67.1	343.0
28.0	694	70.8	764	77.9	398.0
30.0	797	81.3	877	89.4	463.0
32.0	908	92.6			527.0
34.0	1,020	104.0			594.0
35.0	1,079	110.0			631.0
36.0	1,147	117.0			666.0

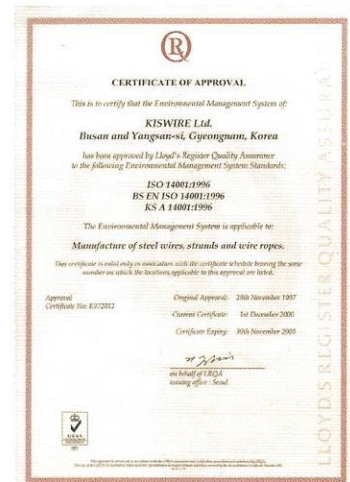


Quality Assurance

KISWIRE has been always trying their best to upgrade the quality and recently succeeded in having accreditation to ISO 9001/14001 so as to keep the more reliable quality assurance. (Please see the below copied certificate of approval.)



ISO 9001



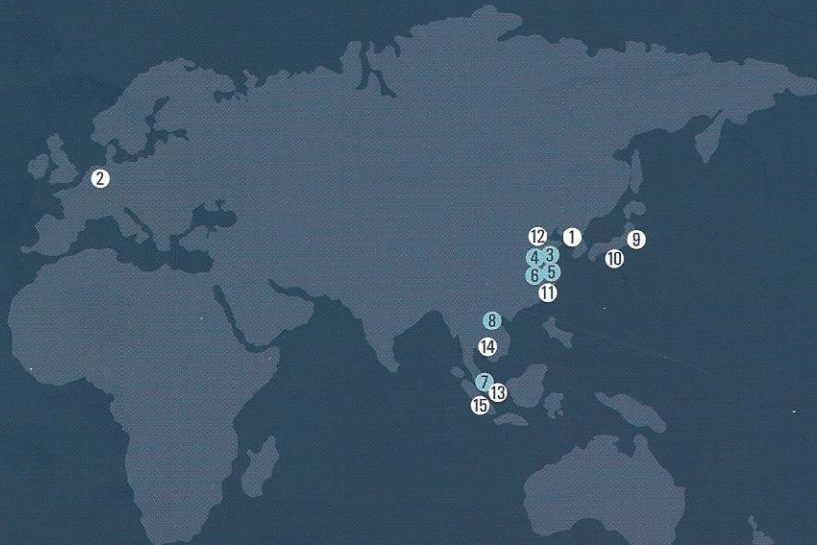
ISO 14001

CAUTIONS & WARNINGS

KISWIRE shall not be liable under any circumstances for consequential or incidental damages resulting from the use of their products relating to personal injury, property damage, labor, cost or loss of profits. KISWIRE agrees to replace any of its proved to be defective in material.

WARNING : Any warranties, expressed or implied concerning the use of this product apply only to the nominal strength of new, unused wire rope. All equipment using this product must be properly used and maintained. Wire rope must be properly stored, handled, used and maintained. Most importantly, wire rope must be regularly inspected during use. Damage, abuse or improper maintenance can cause rope failure. Wire rope removal criteria are based on the use of steel sheaves. If synthetic sheaves are used, consult the sheave equipment manufacturer.

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- Overseas Office

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