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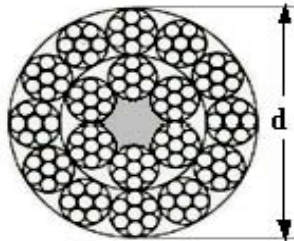
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## STEEL ROPES with fiber core 18 x 7 non rotating ( DIN 3069 )

$$6 \times (1+6) + 12 \times (1+6)$$



Nominal diameter & acceptable tolerance		Weight per meter	Calculated Breaking Force ( CBF )				Minimum Breaking Force ( MBF )			
			for wire nominal strength							
d mm	%	G1 kg/m ~	1570 N/mm <sup>2</sup> ( 160 kp/mm <sup>2</sup> )		1770 N/mm <sup>2</sup> ( 180 kp/mm <sup>2</sup> )		1570 N/mm <sup>2</sup> ( 160 kp/mm <sup>2</sup> )		1770 N/mm <sup>2</sup> ( 180 kp/mm <sup>2</sup> )	
			kN	kp	kN	kp	kN	kp	kN	kp
4	+7	0,0612	-	-	11,6	1.180	-	-	9,02	917
5	-0	0,0957	-	-	18,1	1.840	-	-	14,1	1.430
6	+6	0,138	-	-	25,0	2.650	-	-	20,3	2.060
7	-0	0,188	-	-	35,4	3.600	-	-	27,6	2.810
8		0,245	41,0	4.180	46,3	4.700	32,0	3.260	36,1	3.670
9	+5	0,310	51,9	5.290	58,6	5.950	40,5	4.130	45,7	4.640
10	-0	0,383	64,1	6.530	72,3	7.350	50,0	5.100	56,4	5.730
11		0,463	77,6	7.910	87,5	8.890	60,5	6.170	68,2	6.940
12	+5	0,551	92,3	9.410	104	10.600	72,0	7.340	81,2	8.260
13	-0	0,647	108	11.000	122	12.400	84,5	8.610	95,3	9.690
14		0,750	126	12.800	142	14.400	98,0	9.990	111	11.200
16	+5	0,980	164	16.700	185	18.800	128	13.000	144	14.700
18	-0	1,24	208	21.200	234	23.800	162	16.600	183	18.600
20		1,53	256	26.100	289	29.400	200	20.400	226	22.900
22	+5	1,85	310	31.600	350	35.600	242	24.700	273	27.800
24	-0	2,20	369	37.600	416	42.300	288	29.400	325	33.000
26	+5	2,59	433	44.200	489	49.700	338	34.500	381	38.800
28	-0	3,00	503	51.200	567	57.600	392	40.000	442	45.000

In case a steel core replaces the fiber core

1. The weight increases 5%
2. The CBF increases 6%
3. The MBF increases 3%

By DIN 3069 a construction 17x7 ( core+6+11) instead 18x7 is also acceptable