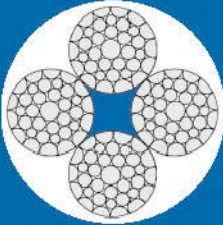




ELEVATOR WIRE ROPES

STEEL WIRE ROPES FOR POWERED SCAFFOLDS AND TRACTION MACHINES

 <p>4 x 36</p>	Nominal Diameter	Weight	Minimum Breaking Load (KN)
	mm	kg/m	2160
	8.2-8.4	0.26	46.5
	9-9.5	0.34	66
	11	0.49	88.7
	16	1.01	179

 <p>5 x 19 seale</p>	Nominal Diameter	Weight	Minimum Breaking Load (KN)
	mm	kg/m	2160
	8.2-8.4	0.28	50.04
	9-9.5	0.36	68.7
	11	0.51	96.3
	16	1.10	189

 <p>6 x 19 seale</p>	Nominal Diameter	Weight	Minimum Breaking Load (KN)
	mm	kg/m	2160
	8.2-8.4	0.28	47
	9-9.5	0.36	67.8
	11	0.53	94.2
	16	1.10	188



STEEL WIRE ROPES FOR ELEVATORS

CONSTRUCTION CROSS SECTION EXAMPLE	CONSTRUCTION OF ROPE		CONSTRUCTION OF STRAND			
	ITEM	QUANTITY	ITEM		QUANTITY	
	Strands	6	Wires		19 to 29	
	outer strands	6	Outer wires		9 to 14	
layers of strands	1	Layers of wires		2		
Wires in rope	114 to 174					
TYPICAL EXAMPLE		No.OF OUTER WIRES		OUTER WIRE FACTOR ¹⁾		
ROPE	STRAND	TOTAL	PER STRAND			
6X19S	1-9-9	54	9	0,080		
6X25F	1-6-6F-12	72	12	0,064		
6X19W	1-6-6+6	72	12 6	0,073 8		
			6	0,055 6		
Min. breaking force factor:		$K_2 = 0,330$				
Nominal length mass factor ¹⁾		$W_2 = 0,359$				
Nominal metallic cross-sectional area factor ¹⁾		$C_2 = 0,384$				
Nominal rope diameter	Apporoximate nominal length mass ¹⁾	Minimum breaking force kN				
		Dual tensile		Single tensile		
mm	kg/100m	Rope Grade 1180/1770	Rope Grade 1370/1770	Rope Grade 1150	Rope Grade 1770	
6	12,9	16,3	17,8	18,7	21,0	
6,5	15,2	19,1	20,9	21,9	24,7	
8 ²⁾	23,0	28,9	31,7	33,2	37,4	
9	29,1	36,6	40,1	42,0	47,3	
10 ²⁾	35,9	45,2	49,5	51,8	58,4	
11 ²⁾	43,4	54,7	59,9	62,7	70,7	
12	51,7	65,1	71,3	74,6	84,1	
13 ²⁾	60,7	76,4	83,7	87,6	98,7	
14	70,4	88,6	97,0	102	114	
15	80,8	102	111	117	131	
16 ²⁾	91,9	116	127	133	150	
18	116	146	160	168	189	
19 ²⁾	130	163	179	187	211	
20	144	181	198	207	234	
22 ²⁾	174	219	240	251	283	

1) Informative only
2) Preferred sizes

STEEL WIRE ROPES FOR ELEVATORS

CONSTRUCTION CROSS SECTION EXAMPLE	CONSTRUCTION OF ROPE		CONSTRUCTION OF STRAND		
	ITEM	QUANTITY	ITEM	QUANTITY	
	Strands	8	Wires	19 to 29	
outer strands	8	Outer wires	9 to 14		
layers of strands	1	Layers of wires	2		
Wires in rope	152 to 232				
TYPICAL EXAMPLE		No.OF OUTER WIRES	OUTER WIRE FACTOR ¹⁾		
ROPE	STRAND	TOTAL	PER STRAND		
8X19S	1-8-8	72	9	0,065 5	
8X25F	1-6-6F-12	96	12	0,052 5	
8X19W	1-6-6+6	96	12 6	0,060 6	
			6	0,045 0	
Min. breaking force factor: Nominal length mass factor ¹⁾		K ₂ =0,293			
Nominal metallic cross-sectional area factor ¹⁾		W ₂ =0,340			
		C ₂ =0,349			
Nominal rope diameter	Apporoximate nominal length mass ¹⁾	Minimum breaking force kN			
		Dual tensile		Single tensile	
mm	kg/100m	Rope Grade 1180/1770	Rope Grade 1370/1770	Rope Grade 1150	
8 ²⁾	21,8	25,7	28,1	29,4	
9	27,5	32,5	35,6	37,3	
10 ²⁾	34,0	40,1	44,0	46,0	
11 ²⁾	41,1	48,6	53,2	55,7	
12	49,0	57,8	63,3	66,2	
13 ²⁾	57,5	67,8	74,3	77,7	
14	66,6	78,7	86,1	90,2	
15	76,5	90,3	98,9	104	
16 ²⁾	87,0	103	113	118	
18	110	130	142	149	
19 ²⁾	123	145	159	166	
20	136	161	176	184	
22 ²⁾	165	194	213	223	

1) Informative only
2) Preferred sizes

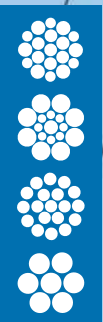


STEEL WIRE ROPES FOR ELEVATORS

CONSTRUCTION CROSS SECTION EXAMPLE	CONSTRUCTION OF ROPE		CONSTRUCTION OF STRAND			
	ITEM	QUANTITY	ITEM		QUANTITY	
	Strands	8	Wires	19 to 29		
outer strands	8	Outer wires	9 to 14			
ayers of strands	1	Layers of wires	2			
Wires in rope	152 to 232					
TYPICAL EXAMPLE		No.OF OUTER WIRES			OUTER WIRE FACTOR ¹⁾	
ROPE	STRAND	TOTAL	PER STRAND			
8X19S-IWRC	8X19S	1-9-9	72	9		0,065 5
8X25F-IWRC	8X25F	1-6-6F-12	96	12		0,052 5
	8X19W	1-6-6+6	96	12 6		0,060 6
				6		0,045 0
8X25F-IWRC		Min. breaking force factor:	$K_2 = 0,356$			
		Nominal length mass factor ¹⁾	$W_2 = 0,407$			
		Nominal metallic cross-sectional area factor ¹⁾	$C_2 = 0,457$			
8X19W-IWRC						
Nominal rope diameter	Apporoximate nominal length mass ¹⁾	Minimum breaking force kN				
		Dual tensile		Single tensile		
mm	kg/100m	Rope Grade 1370/1770	Rope Grade 1570/1770	Rope Grade 1570	Rope Grade 1770	
8 ²⁾	26,0	35,8	38,0	35,8	40,3	
9	33,0	45,3	48,2	45,3	51,0	
10 ²⁾	40,7	55,9	59,5	55,9	63,0	
11 ²⁾	49,2	67,6	71,9	67,6	76,2	
12	58,6	80,5	85,6	80,5	90,7	
13 ²⁾	68,7	94,5	100	94,5	106	
14	79,8	110	117	110	124	
15	91,6	126	134	126	142	
16 ²⁾	104	143	152	143	161	
18	132	181	193	181	204	
19 ²⁾	147	202	215	202	227	
20	163	224	238	224	252	
22 ²⁾	197	271	288	271	305	

1) Informative only

2) Preferred sizes



ALUMINIUM CONDUCTORS