

LIFTFLEX 8F

The most frequently used 8 strand rope for elevator applications with good bending fatigue due to smaller wires.

Good bend fatigue
due to smaller wires

Good elongation
properties

Better contact on
drum sheaves



BRUNTON
WIRE ROPES
THE SPECIALIST



Constructions

8x19S, 8x25F, 8x19W

Core

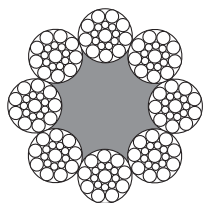
Fibre core

Range

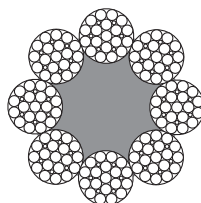
8mm - 22mm

Rope grade680/1250, 1180/1770, 1370/1770
1570/1770, 1670/1960, 1570, 1770**MBF**

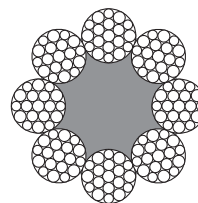
15.9 - 350.07 kN



8 x 19S (9-9-1) + FC



8 x 25F (12-6F-6-1) + FC



8 x 19W (6+6-6-1) + FC

Typical applications

Elevator Ropes ■ Governor Ropes

TABLE 1 As per ISO 4344

Nominal Rope Diameter	#Equiv Nominal Rope Diameter	Approx. Mass	Minimum Breaking Force						
			Rope Grade						
			Dual Tensile					Single Tensile	
			*680/1250	**1180/1770	1370/1770	1570/1770	***1670/1960	1570	1770
mm	inch	kg/100m	-	kN	kN	kN	kN	kN	kN
8	5/16	23.1	-	25.7	28.1	30.8	-	29.4	33.2
9		27.7	-	32.5	35.6	38.9	-	37.3	42
9.5	3/8	30.8	26.5	36.2	39.7	43.6	48.8	41.5	46.8
10		33.4	-	40.1	44	48.1	-	46	51.9
11	7/16	41.0	36.5	48.6	53.2	58.1	-	55.7	62.8
12		49.4	-	57.8	63.3	69.2	-	66.2	74.7
12.7	1/2	55.0	47.7	64.7	70.9	77.5	85.4	74.2	83.6
13		57.8	-	67.8	74.3	81.2	-	77.7	87.6
14		66.8	-	78.7	86.1	94.2	-	90.2	102
14.3	9/16	69.5	-	82.1	89.3	98.3	107.8	94	106.2
15		76.6	-	90.3	98.9	108	-	104	117
16	5/8	86.6	74.8	103	113	123	121	118	133
17.5	11/16	104.3	-	123	135	147	160.1	141	159
18		112.8	-	130	142	156	-	149	168
19	3/4	123.4	107.6	145	159	173	174	166	187
20		136.7	-	161	176	192	-	184	207
20.6	13/16	144.0	-	170	-	204	-	-	-
22	7/8	165.4	-	194	213	233	-	223	251

Note : Rope sizes and breaking force not shown in the table, may be available on request and prior confirmation.

Equivalent Nominal Rope Diameter ('inch') is for reference only as the same has been superseded by metric unit (mm)

* 680/1250 rope grade is equivalent to Iron grade

** 1180/1770 rope grade is equivalent to traction steel grade, 1370/1770 may also be used

*** 1670/1960 rope grade is equivalent to EHS steel grade, 1570/1770 may also be used

TABLE 2 As per EN 12385-5

Nominal Rope Diameter	Approx. Mass	Minimum Breaking Force		
		Rope Grade		
		Dual Tensile		Single Tensile
		1180/1770	1370/1770	1570
mm	kg/100m	kN	kN	kN
8	23.1	25.7	28.1	29.4
9	27.7	32.5	35.6	37.3
10	33.4	40.1	44	46
11	41.0	48.6	53.2	55.7
12	49.4	57.8	63.3	66.2
13	57.8	67.8	74.3	77.7
14	66.8	78.7	86.1	90.2
15	76.6	90.3	98.9	104
16	86.6	103	113	118
18	112.8	130	142	149
19	123.4	145	159	166
20	136.7	161	176	184
22	165.4	194	213	223

Note : Rope sizes and breaking force not shown in the table, may be available on request and prior confirmation.

TABLE 3 US Customary Units

Wire rope conforms to the applicable sections of ISO 4344

Nominal Rope Diameter	#Equiv Nominal Rope Diameter	Approx. Mass	Minimum Breaking Force						
			Rope Grade						
			Dual Tensile					Single Tensile	
			*680/1250	**1180/1770	1370/1770	1570/1770	***1670/1960	1570	1770
inch	mm	lb./ft	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1/4	6.3	0.09	-	3580	3920	4290	-	4100	7464
5/16	8	0.15	-	5780	6320	6920	-	6610	9442
3/8	9.5	0.21	5957	8140	8930	9800	10971	9330	10521
7/16	11	0.28	8206	10930	11960	13060	-	12520	14118
1/2	12.7	0.37	10723	14550	15940	17420	19199	16680	18794
9/16	14.3	0.47	-	18460	20210	22100	24235	21150	23875
5/8	16	0.58	16816	23160	25400	27650	27202	26530	29900
11/16	17.5	0.70	-	27650	30260	33050	35992	31670	35745
3/4	19	0.83	24190	32600	35750	38890	39117	37320	42039
13/16	20.6	0.97	-	38220	41930	45860	-	43890	-
7/8	22	1.11	-	43620	47890	52380	-	50140	56427
15/16	23.8	1.30	-	51160	56020	61240	-	58630	-
1	25.4	1.47	-	58220	63750	69700	-	66720	-
1-1/16	27	1.66	-	65740	71980	78700	-	75340	-

Note : Rope sizes and breaking force not shown in the table, may be available on request and prior confirmation.

Equivalent Nominal Rope Diameter ('mm') is for reference only

* 680/1250 rope grade is equivalent to Iron grade

** 1180/1770 rope grade is equivalent to traction steel grade, 1370/1770 may also be used

*** 1670/1960 rope grade is equivalent to EHS steel grade, 1570/1770 may also be used



Get in touch with us

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