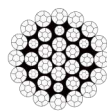


POWERFLEX Rope

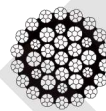
3

By flattening the surface of outer wires of each strand, this plane Contacting Lay construction has flat / touch area of outer wires comparing round strand type rope. This flat touch area enables longer life of each wire before breaking. While designing this construction, we emphasized the optimal balance between high tensile strength, fatigue resistance, abrasion resistance, and structural stability. Powerflex rope is widely used in various applications such as crane, fishing and mining.

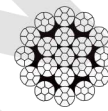
1. Tower Crane



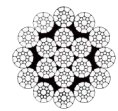
POWERFLEX 35, 35L



POWERFLEX 37, 37L



POWERFLEX 19

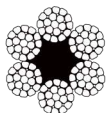


POWERFLEX M19

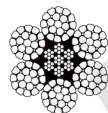
2. Crane / Fishing / Mining

• POWERFLEX 6

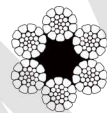
6×19 Class Rope



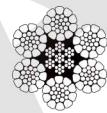
6×Fi(25)+FC



6×Fi(25)+IWRC

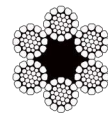


6×WS(26)+FC

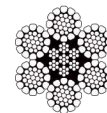


6×Fi(26)+IWRC

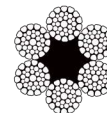
6×37 Class Rope



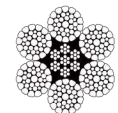
6×WS(31)+FC



6×WS(31)+IWRC

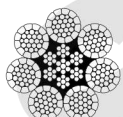


6×WS(36)+FC



6×WS(36)+IWRC

• POWERFLEX 7



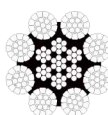
7×WS(31)+IWRC

• POWERFLEX 8

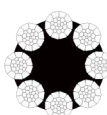
8×19 Class Rope



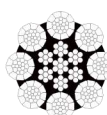
8×Fi(25)+FC



8×Fi(25)+IWRC

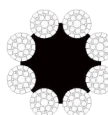


8×WS(26)+FC



8×WS(26)+IWRC

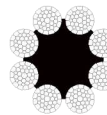
8×37 Class Rope



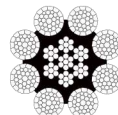
8×Fi(29)+FC



8×Fi(29)+IWRC



8×WS(36)+FC



8×WS(36)+IWRC

○ Properties



COMPACTED



NON-ROTATING

1. Tower Crane

POWERFLEX 35, 35L

Nominal Dia.		Minimum Breaking Load (Metric Ton)		Approx Weight
		200 Kg/mm ²	220 Kg/mm ²	
mm	inch	1960 N/mm ²	2160 N/mm ²	Kg/m
14		18.3	19.6	1.00
14.3	9/16	19.1	20.4	1.04
15		21.0	22.5	1.15
16	5/8	23.9	25.6	1.31
17.5	11/16	28.6	30.6	1.56
18		30.3	32.4	1.65
19	3/4	33.7	36.1	1.84
20		37.3	40.0	2.04
21	13/16	41.2	44.1	2.25
22		45.2	48.4	2.47
22.2	7/8	46.1	49.4	2.52
24	15/16	53.8	57.6	2.94
25		58.4	62.5	3.19
25.4	1	60.2	64.5	3.29
26		63.1	67.6	3.45
28		73.2	78.4	4.00
28.6	1-1/8	76.4	81.8	4.17
30	1-3/16	84.0	90.0	4.59
31.8	1-1/4	94.4	101.1	5.16
32		95.6	102.4	5.22
34		107.9	115.6	5.90
35	1-3/8	114.4	122.5	6.25
36		121.0	129.6	6.61
38		134.8	144.4	7.37

POWERFLEX 37, 37L

Nominal Dia.		Minimum Breaking Load (Metric Ton)		Approx Weight
		200 Kg/mm ²	220 Kg/mm ²	
mm	inch	1960 N/mm ²	2160 N/mm ²	Kg/m
14		18.2	19.5	1.00
14.3	9/16	19.0	20.4	1.05
15		20.9	22.4	1.15
16	5/8	23.8	25.5	1.31
17.5	11/16	28.5	30.5	1.57
18		30.2	32.3	1.66
19	3/4	33.6	36.0	1.85
20		37.2	39.9	2.05
21	13/16	41.0	44.0	2.26
22		45.0	48.3	2.48
22.2	7/8	46.0	49.2	2.53
24	15/16	53.6	57.4	2.95
25		58.2	62.3	3.20
25.4	1	60.0	64.3	3.30
26		62.9	67.4	3.46
28		73.0	78.2	4.02
28.6	1-1/8	76.1	81.5	4.19
30	1-3/16	83.8	89.7	4.61
31.8	1-1/4	94.1	100.8	5.18
32		95.3	102.1	5.25
34		107.6	115.2	5.92
35	1-3/8	114.0	122.1	6.28
36		120.6	129.2	6.64
38		134.4	144.0	7.40

□ Available upon request (Operation in poor condition is not recommendable.)



POWERFLEX 19

Nominal Dia.		Minimum Breaking Load (Metric Ton)			Approx Weight
		180 Kg/mm ²	200 Kg/mm ²	220 Kg/mm ²	
mm	inch	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²	Kg/m
9.53	3/8	7.3	7.9	8.8	0.44
10		8.0	8.7	9.7	0.48
11.2	7/16	10.1	10.9	12.1	0.60
12		11.6	12.6	13.9	0.69
12.7	1/2	13.0	14.1	15.6	0.78
13		13.6	14.7	16.4	0.81
14		15.8	17.1	19.0	0.94
14.3	9/16	16.5	17.8	19.8	0.98
15		18.1	19.6	21.8	1.08
16	5/8	20.6	22.3	24.8	1.23
17.5	11/16	24.6	26.7	29.6	1.47
18		26.1	28.3	31.4	1.56
19	3/4	29.1	31.5	34.9	1.74
20		32.2	34.9	38.7	1.93
21	13/16	35.5	38.5	42.7	2.12
22		38.9	42.2	46.8	2.33
22.2	7/8	39.7	43.1	47.8	2.38
24	15/16	46.4	50.2	55.8	2.77
25		50.3	54.5	60.5	3.01
25.4	1	51.9	56.3	62.4	3.11
26		54.4	58.9	65.4	3.25
28		63.1	68.4		3.77
28.6	1-1/8	65.8	71.3		3.94
30	1-3/16	72.4	78.5		4.33
31.8	1-1/4	81.4	88.2		4.87
32		82.4	89.3		4.93

POWERFLEX M19

Nominal Dia.		Minimum Breaking Load (Metric Ton)			Approx Weight
		180 Kg/mm ²	200 Kg/mm ²	220 Kg/mm ²	
mm	inch	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²	Kg/m
19	3/4	28.4	31.0	34.6	1.74
20		31.4	34.3	38.3	1.94
21	13/16	34.6	37.9	42.3	2.13
22		38.0	41.6	46.4	2.34
22.2	7/8	38.8	42.4	47.3	2.38
24	15/16	45.3	49.5	55.2	2.78
25		49.1	53.7	59.9	3.02
25.4	1	50.7	55.4	61.8	3.12
26		53.1	58.0	64.8	3.27
28		61.6	67.3		3.79
28.6	1-1/8	64.3	70.2		3.95
30	1-3/16	70.7	77.3		4.35
31.8	1-1/4	79.4	86.8		4.89
32		80.4	87.9		4.95

2. Crane / Fishing / Mining

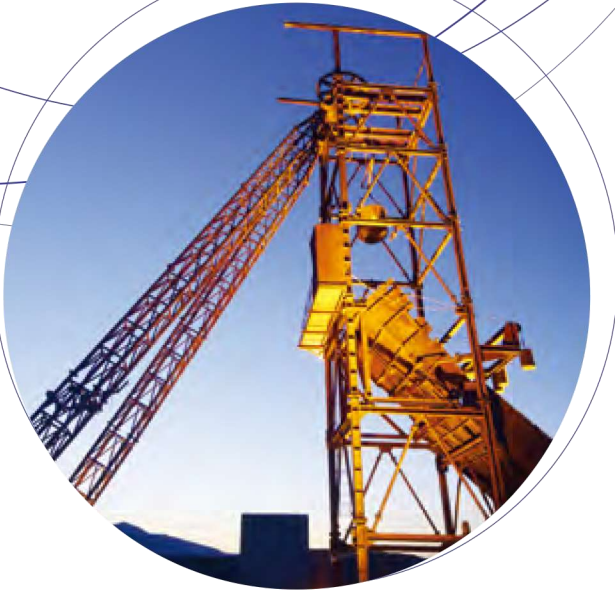
POWERFLEX 6

• 6×19 Class Rope

Nominal Dia.		Minimum Breaking Load (Metric Ton)					Approx Weight		
		180 kg/mm ²		200 kg/mm ²		220 kg/mm ²			
mm	inch	1770 N/mm ²		1960 N/mm ²		2160 N/mm ²		kg/m	
		FC	IWRC	FC	IWRC	IWRC	FC	IWRC	FC
11.2	7/16	8.7	9.8	9.1	10.6			0.51	0.57
12		10.0	11.3	10.5	12.1			0.59	0.65
12.7	1/2	11.2	12.6	11.7	13.6			0.66	0.73
13		11.7	13.2	12.3	14.3			0.69	0.76
14		13.6	15.3	14.2	16.5	17.3		0.80	0.89
14.3	9/16	14.2	16.0	14.9	17.2	18.0		0.83	0.92
15		15.6	17.6	16.4	19.0	19.8		0.92	1.02
16	5/8	17.8	20.0	18.6	21.6	22.6		1.04	1.16
17.5	11/16	21.2	23.9	22.3	25.8	27.0		1.25	1.38
18		22.5	25.3	23.6	27.3	28.6		1.32	1.46
19	3/4	25.0	28.2	26.2	30.4	31.8		1.47	1.63
20		27.7	31.3	29.1	33.7	35.3		1.63	1.81
21	13/16	30.6	34.5	32.1	37.2	38.9		1.80	1.99
22		33.6	37.8	35.2	40.8	42.7		1.98	2.19
22.2	7/8	34.3	38.6	35.9	41.7	43.5		2.02	2.23
24	15/16	39.9	45.0	41.9	48.6	50.8		2.35	2.60
25		43.3	48.8	45.4	52.7	55.1		2.55	2.83
25.4	1	44.7	50.4	46.9	54.4	56.9		2.63	2.92
26		46.9	52.8	49.1	57.0	59.6		2.76	3.06
28		54.4	61.3	57.0	66.1	69.1		3.20	3.54
28.6	1-1/8	56.7	63.9	59.5	69.0	72.1		3.34	3.70
30	1-3/16	62.4	70.3	65.4	75.9	79.3		3.67	4.07
31.5	1-1/4	68.8	77.5	72.1	83.7	87.5		4.05	4.49
32		71.0	80.0	74.4	86.4	90.3		4.18	4.63
34		80.2	90.3	84.0	97.5	101.9		4.72	5.23
35	1-3/8	85.0	95.7	89.0	103.3	108.0		5.00	5.54
36		89.9	101.3	94.2	109.3	114.2		5.29	5.86
38		100.1	112.8	105.0	121.8	127.3		5.89	6.53
38.1	1-1/2	100.7	113.4	105.5	122.4	127.9		5.92	6.56
40		111.0	125.0	116.3	134.9			6.53	7.23
42		122.3	137.8	128.2	148.8			7.20	7.97
44		134.3	151.3	140.7	163.3			7.90	8.75
44.5	1-3/4	137.0	154.4	143.6	166.6			8.06	8.93
46		146.8	165.3	153.8	178.5			8.64	9.56
48		159.8	180.0					9.40	10.41
50		173.4	195.3					10.20	11.30
50.8	2	179.0	201.3					10.53	11.66
52		187.5	211.3					11.04	12.22

• 6×37 Class Rope

Nominal Dia.		Minimum Breaking Load (Metric Ton)					Approx Weight		
		180 kg/mm ²		200 kg/mm ²		220 kg/mm ²			
mm	inch	1770 N/mm ²		1960 N/mm ²		2160 N/mm ²		kg/m	
		FC	IWRC	FC	IWRC	IWRC	FC	IWRC	FC
11.2	7/16	8.9	9.9	9.3	10.7			0.53	0.58
12		10.2	11.4	10.7	12.3			0.60	0.66
12.7	1/2	11.4	12.7	12.0	13.8			0.68	0.74
13		12.0	13.4	12.5	14.4			0.71	0.77
14		13.9	15.5	14.6	16.7	17.5		0.82	0.90
14.3	9/16	14.5	16.2	15.2	17.4	18.2		0.86	0.94
15		16.0	17.8	16.7	19.2	20.1		0.94	1.03
16	5/8	18.2	20.2	19.0	21.8	22.8		1.07	1.17
17.5	11/16	21.7	24.2	22.7	26.1	27.3		1.28	1.40
18		23.0	25.6	24.1	27.6	28.9		1.36	1.49
19	3/4	25.6	28.5	26.8	30.8	32.2		1.51	1.65
20		28.4	31.6	29.7	34.1	35.7		1.67	1.83
21	13/16	31.3	34.8	32.7	37.6	39.3		1.85	2.02
22		34.3	38.2	35.9	41.3	43.1		2.03	2.22
22.2	7/8	35.0	39.0	36.7	42.1	44.0		2.07	2.26
24	15/16	40.9	45.5	42.8	49.1	51.3		2.41	2.64
25		44.3	49.4	46.4	53.3	55.7		2.62	2.86
25.4	1	45.8	51.0	47.9	55.0	57.5		2.70	2.96
26		48.0	53.4	50.2	57.7	60.3		2.83	3.10
28		55.6	61.9	58.2	66.9	69.9		3.28	3.59
28.6	1-1/8	58.0	64.6	60.7	69.8	72.9		3.42	3.75
30	1-3/16	63.9	71.1	66.8	76.8	80.2		3.77	4.13
31.5	1-1/4	70.4	78.4	73.7	84.6	88.4		4.15	4.55
32		72.7	80.9	76.0	87.3	91.3		4.29	4.69
34		82.0	91.3	85.8	98.6	103.0		4.84	5.30
35	1-3/8	86.9	96.8	90.9	104.5	109.2		5.13	5.62
36		92.0	102.4	96.2	110.5	115.5		5.42	5.94
38		102.5	114.1	107.2	123.2	128.7		6.04	6.62
38.1	1-1/2	103.0	114.7	107.8	123.8	129.4		6.08	6.65
40		113.5	126.4	118.8	136.5			6.70	7.33
42		125.2	139.4	131.0	150.5			7.38	8.09
44		137.4	152.9	143.7	165.1			8.10	8.87
44.5	1-3/4	140.2	156.1	146.7	168.5			8.27	9.06
46		150.1	167.2	157.1	180.5			8.86	9.70
48		163.5	182.0					9.64	10.56
50		177.4	197.5					10.46	11.46
50.8	2	183.1	203.9					10.80	11.83
52		191.8	213.6					11.32	12.39



POWERFLEX 7

Nominal Dia.		Minimum Breaking Load (Metric Ton)			Approx Weight
		180 kg/mm ²	200 kg/mm ²	220 kg/mm ²	
mm	inch	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²	kg/m
20		31.6	34.1	35.7	1.78
21	13/16	34.8	37.6	39.3	1.96
22		38.2	41.3	43.1	2.15
22.2	7/8	39.0	42.1	44.0	2.19
24	15/16	45.5	49.1	51.3	2.56
25		49.4	53.3	55.7	2.78
25.4	1	51.0	55.0	57.5	2.87
26		53.4	57.7	60.3	3.01
28		61.9	66.9	69.9	3.49
28.6	1-1/8	64.6	69.8	72.9	3.64
30	1-3/16	71.1	76.8	80.2	4.00
31.8	1-1/4	78.4	84.6	88.4	4.50
32		80.9	87.3	91.3	4.55
34		91.3	98.6	103.0	5.14
35	1-3/8	96.8	104.5	109.2	5.45
36		102.4	110.5	115.5	5.76
38		114.1	123.2	128.7	6.42
38.1	1-1/2	114.7	123.8	129.4	6.45
40		126.4	136.5		7.11
42		139.4	150.5		7.84
44		152.9	165.1		8.61
44.5	1-3/4	156.1	168.5		8.80
46		167.2	180.5		9.41
48		182.0			10.24

POWERFLEX 8

•8×19 Class Rope

Nominal Dia.		Minimum Breaking Load (Metric Ton)					Approx Weight	
		180 kg/mm ²		200 kg/mm ²		220 kg/mm ²		
mm	inch	1770 N/mm ²		1960 N/mm ²		2160 N/mm ²		kg/m
		FC	IWRC	FC	IWRC	IWRC	FC	IWRC
14		13.7	15.8	14.3	17.4	18.6	0.79	0.87
14.3	9/16	14.2	16.5	14.9	18.2	19.4	0.82	0.91
15		15.7	18.1	16.4	20.0	21.3	0.91	1.00
16	5/8	17.8	20.6	18.7	22.7	24.2	1.03	1.14
17.5	11/16	21.3	24.7	22.3	27.2	29.0	1.23	1.36
18		22.6	26.1	23.6	28.8	30.7	1.31	1.44
19	3/4	25.1	29.1	26.3	32.0	34.2	1.46	1.61
20		27.9	32.2	29.1	35.5	37.9	1.61	1.78
22		33.7	39.0	35.3	43.0	45.8	1.95	2.16
24		40.1	46.4	42.0	51.1	54.5	2.32	2.57
25		43.5	50.4	45.5	55.5	59.2	2.52	2.78
26		47.1	54.5	49.3	60.0	64.0	2.72	3.01
28		54.6	63.2	57.1	69.6	74.2	3.16	3.49
28.6	1-1/8	57.0	65.9	59.6	72.6	77.5	3.30	3.64
30	1-3/16	62.7	72.6	65.6	79.9	85.2	3.63	4.01
32		71.3	82.5	74.6	90.9	97.0	4.13	4.56
34		80.5	93.2	84.2	102.6	109.5	4.66	5.15
35		85.3	98.8	89.3	108.8	116.0	4.94	5.46
36		90.3	104.5	94.4	115.1	122.7	5.22	5.77
38		100.6	116.4	105.2	128.2	136.7	5.82	6.43
38.1	1-1/2	101.1	117.0	105.8	128.9	137.5	5.85	6.47
40		111.4	129.0	116.6	142.0	151.5	6.45	7.13
42		122.9	142.2		156.6		7.11	7.86
44		134.8	156.1		171.9		7.80	8.63
45		141.0	163.2		179.8		8.16	9.02
46		147.4	170.6		187.8		8.53	9.52
48		160.5	185.7		204.5		9.29	10.37

•8×37 Class Rope

Nominal Dia.		Minimum Breaking Load (Metric Ton)					Approx Weight	
		180 kg/mm ²		200 kg/mm ²		220 kg/mm ²		
mm	inch	1770 N/mm ²		1960 N/mm ²		2160 N/mm ²		kg/m
		FC	IWRC	FC	IWRC	IWRC	FC	IWRC
14		13.8	16.0	14.4	17.6	18.7	0.81	0.88
14.3	9/16	14.4	16.7	15.0	18.3	19.6	0.84	0.92
15		15.8	18.3	16.5	20.2	21.5	0.92	1.01
16	5/8	18.0	20.8	18.7	23.0	24.5	1.05	1.15
17.5	11/16	21.6	24.9	22.4	27.5	29.3	1.26	1.38
18		22.8	26.4	23.7	29.1	31.0	1.33	1.46
19	3/4	25.4	29.4	26.4	32.4	34.5	1.48	1.62
20		28.2	32.6	29.3	35.9	38.2	1.64	1.80
22		34.1	39.4	35.4	43.4	46.3	1.99	2.18
24		40.6	46.9	42.2	51.6	55.1	2.37	2.59
25		44.0	50.9	45.8	56.0	59.8	2.57	2.81
26		47.6	55.0	49.5	60.6	64.6	2.78	3.04
28		55.2	63.8	57.4	70.3	75.0	3.22	3.53
28.6	1-1/8	57.6	66.6	59.9	73.3	78.2	3.36	3.68
30	1-3/16	63.4	73.3	65.9	80.7	86.1	3.70	4.05
32		72.1	83.4	75.0	91.8	97.9	4.21	4.61
34		81.4	94.1	84.6	103.7	110.5	4.75	5.20
35		86.3	99.8	89.7	109.8	117.1	5.03	5.51
36		91.2	105.5	94.9	116.2	123.9	5.32	5.83
38		101.7	117.6	105.7	129.5	138.1	5.93	6.50
38.1	1-1/2	102.2	118.2	106.3	130.2	138.8	5.96	6.53
40		112.7	130.3	117.1	143.5	153.0	6.57	7.20
42		124.2	143.6		158.2		7.25	7.94
44		136.3	157.6		173.6		7.95	8.71
45		142.6	164.9		181.6		8.32	9.11
46		149.0	172.3		189.7		8.69	9.62
48		162.2	187.6		206.6		9.46	10.47

□ Available upon request (Operation in poor condition is not recommendable.)