

Powerflex Rope

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.

POWERFLEX 37, 37L

- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting Tower crane
- Excellent Life Time



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm ² (1770N/mm ²)	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
14		16.5	18.2	19.5	1.00
14.3	9/16"	17.2	19.0	20.4	1.05
15		19.0	20.9	22.4	1.15
16	5/8"	21.6	23.8	25.5	1.31
17.5	11/16"	25.8	28.5	30.5	1.57
18		27.3	30.2	32.3	1.66
19	3/4"	30.4	33.6	36.0	1.85
20		33.7	37.2	39.9	2.05
21	13/16"	37.2	41.0	44.0	2.26
22		40.8	45.0	48.3	2.48
22.2	7/8"	41.6	46.0	49.2	2.53
24	15/16"	48.5	53.6	57.4	2.95

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm ² (1770N/mm ²)	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
25		52.7	58.2	62.3	3.20
25.4	1"	54.4	60.0	64.3	3.30
26	1-1/16"	57.0	62.9	67.4	3.46
28		66.1	73.0	78.2	4.02
28.6	1-1/8"	68.9	76.1	81.5	4.19
30	1-3/16"	75.9	83.8	89.7	4.61
31.8	1-1/4"	85.2	94.1	100.8	5.18
32		86.3	95.3	102.1	5.25
34		97.4	107.6	115.2	5.92
35	1-3/8"	103.3	114.0	122.1	6.28
36		109.2	120.6	129.2	6.64
38		121.7	134.4	144.0	7.40

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

POWERFLEX 35, 35L

- Very strong rotation - resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting Tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
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

Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
25		58.4	62.5	3.19
25.4	1"	60.2	64.5	3.29
26	1-1/16"	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

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

POWERFLEX 19

- Rotation - resistance
- Good resistance to deformation
- High structural stability
- Strong against abrasion
- Extended life of winch drum and sheave
- High breaking load
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm ² (1620N/mm ²)	180Kg/mm ² (1770N/mm ²)	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
9.53	3/8"	6.7	7.3	7.9	8.8	0.44
10		7.4	8.0	8.7	9.7	0.48
11.2	7/16"	9.3	10.1	10.9	12.1	0.60
12		10.6	11.6	12.6	13.9	0.69
12.7	1/2"	11.9	13.0	14.1	15.6	0.78
13		12.5	13.6	14.7	16.4	0.81
14		14.5	15.8	17.1	19.0	0.94
14.3	9/16"	15.1	16.5	17.8	19.8	0.98
15		16.6	18.1	19.6	21.8	1.08
16	5/8"	18.9	20.6	22.3	24.8	1.23
17.5	11/16"	22.6	24.6	26.7	29.6	1.47
18		23.9	26.1	28.3	31.4	1.56
19	3/4"	26.6	29.1	31.5	34.9	1.74

Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm ² (1620N/mm ²)	180Kg/mm ² (1770N/mm ²)	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
20		29.5	32.2	34.9	38.7	1.93
21	13/16"	32.5	35.5	38.5	42.7	2.12
22		35.7	38.9	42.2	46.8	2.33
22.2	7/8"	36.4	39.7	43.1	47.8	2.38
24	15/16"	42.5	46.4	50.2	55.8	2.77
25		46.1	50.3	54.5	60.5	3.01
25.4	1"	47.6	51.9	56.3	62.4	3.11
26	1-1/16"	49.9	54.4	58.9	65.4	3.25
28		57.8	63.1	68.4	-	3.77
28.6	1-1/8"	60.3	65.8	71.3	-	3.94
30	1-3/16"	66.4	72.4	78.5	-	4.33
31.8	1-1/4"	74.6	81.4	88.2	-	4.87
32		75.5	82.4	89.3	-	4.93

POWERFLEX M19

- Rotation - resistance
- High structural stability
- High breaking load
- Good resistance to deformation
- Extended life of winch drum and sheave
- Excellent life time
- Strong against abrasion



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm ² (1620N/mm ²)	180Kg/mm ² (1770N/mm ²)	200Kg/mm ² (1960N/mm ²)	220Kg/mm ² (2160N/mm ²)	
19	3/4"	26.0	28.4	31.0	34.6	1.74
20		28.8	31.4	34.3	38.3	1.94
21	13/16"	31.8	34.6	37.9	42.3	2.13
22		34.9	38.0	41.6	46.4	2.34
22.2	7/8"	35.6	38.8	42.4	47.3	2.38
24	15/16"	41.5	45.3	49.5	55.2	2.78
25		45.0	49.1	53.7	59.9	3.02
25.4	1"	46.5	50.7	55.4	61.8	3.12
26	1-1/16"	48.7	53.1	58.0	64.8	3.27
28		56.5	61.6	67.3	-	3.79
28.6	1-1/8"	58.9	64.3	70.2	-	3.95
30	1-3/16"	64.8	70.7	77.3	-	4.35
31.8	1-1/4"	72.9	79.4	86.8	-	4.89
32		73.8	80.4	87.9	-	4.95

