



Estd. 1910

# E. E. Karachiwala & Co.

43/45 Narayan Rao Koli Marg, Masjid Bunder Stn (W), Mumbai 400003.

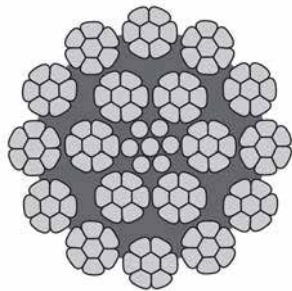
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## POWERFORM®18

- Powerform® 18 is a high strength rotation resistant hoist rope.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Good resistance to rotation verified by testing on the in-house torque/turn machine.
- Suitable for use on single part and multi-part hoist reeving systems.
- High fatigue life resulting from the unique compaction process.
- Increased resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Fully lubricated in manufacturing.



Powerform® 18

### Standard Characteristics Powerform® 18

Construction	6mm-19mm	18xK7(12xK7:6xK7-1x7)	
	20mm-32mm	18xK19S(12xK19S:6xK19S-1x19S)	
Compacted	Yes	Yes	No
	◆		
Tensile Grade N/mm <sup>2</sup>	1960	1960	2160
	◆		
Finish	Bright	Bright	Galvanised
	◆		◆
Lay Direction	Right Hand	Right Hand	Left Hand
	◆		
Lay Type	Ordinary	Ordinary	Langs
	◆		◆
Average Fill Factor (%)	66.3		
Turn value at 20% of breaking force degrees/rope lay	4		
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.25 x NRD		
Discard Criteria	Refer to ISO 4309:1990		





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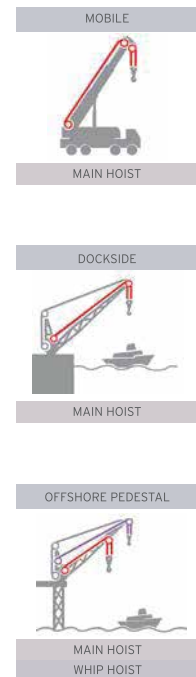


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NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED			
			ROPE GRADE			
			1960 N/mm <sup>2</sup>		2160 N/mm <sup>2</sup>	
			kN	tonnes	kN	tonnes
6		17.5	29.4	3.0		
7		23.8	38.0	3.9		
8		31.0	51.8	5.3		
9		39.3	64.6	6.6		
10		48.5	80.8	8.2		
11		58.7	101.0	10.3	111	11.3
12		69.8	116.0	11.8	127	12.9
	1/2	78.2	135.0	13.8	148	15.1
13		82.0	141.0	14.4	155	15.8
14		95.1	160.0	16.3	177	18.0
15		109.0	182.0	18.6	201	20.5
16	5/8	124.0	209.0	21.3	232	23.6
17		140.0	237.0	24.2	262	26.7
18		157.0	266.0	27.1	295	30.1
	3/4	175.0	291.0	29.7	322	32.8
20		194.0	320.0	32.6	359	36.6
22		235.0	379.0	38.6	424	43.2
	7/8	240.0	387.0	39.4	433	44.1
24		279.0	462.0	47.1	523	53.3
	1	313.0	517.0	52.7	585	59.6
26		328.0	542.0	55.2	613	62.5
28		380.0	632.0	64.4	710	72.4
30		437.0	721.0	73.5	809	82.5
32	1-1/4	497.0	820.0	83.6	920	93.8

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

## Typical Applications



MAIN HOIST ■  
WHIP HOIST ■

Note: For higher lifting heights consideration should be given to using a 35x7 construction with improved rotational characteristics.