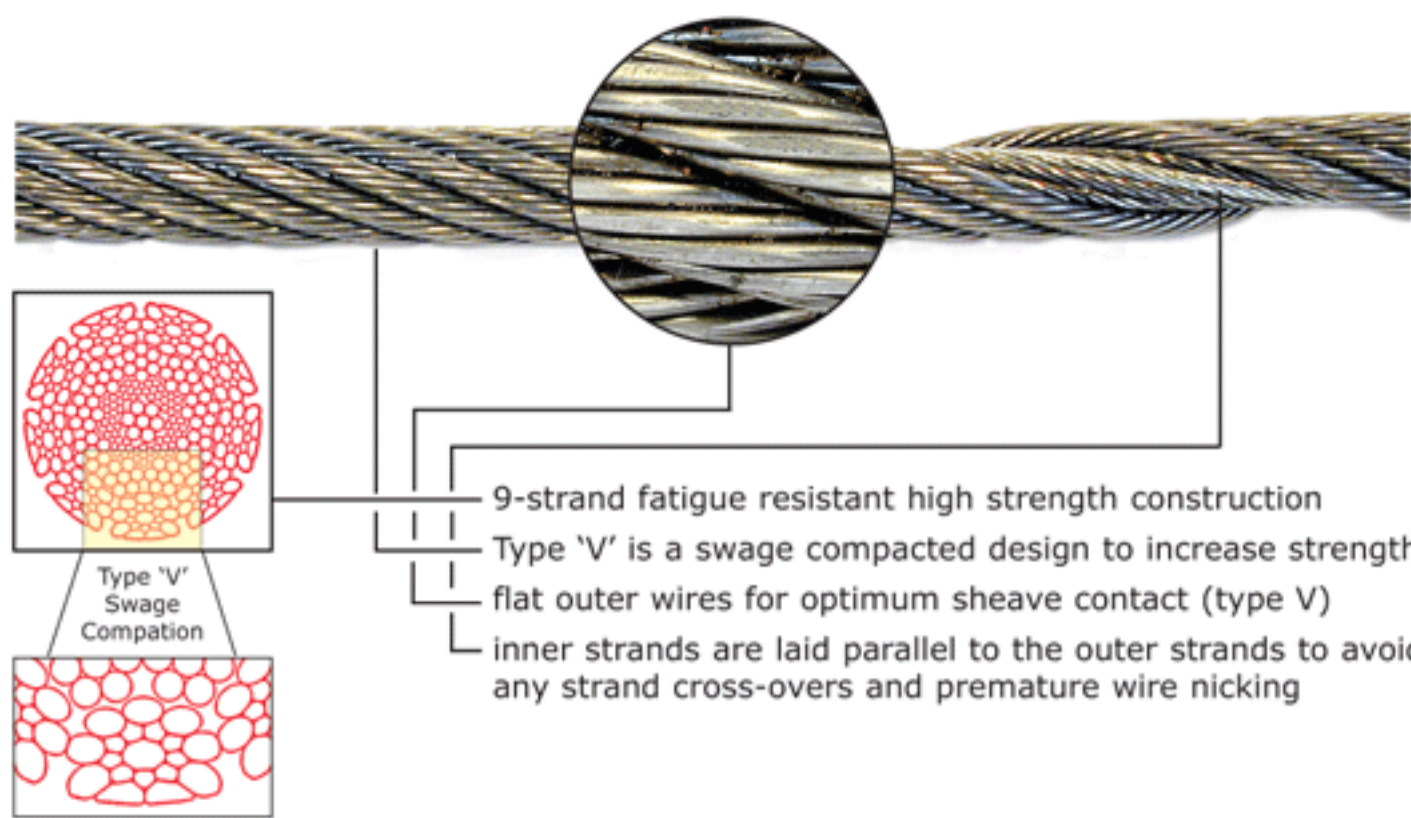


# Python® Power-9



- 9-strand fatigue resistant high strength construction
- Type 'V' is a swage compacted design to increase strength
- flat outer wires for optimum sheave contact (type V)
- inner strands are laid parallel to the outer strands to avoid any strand cross-overs and premature wire nicking

## Main Applications:

Super high strength yet super flexible overhead crane wire rope. Used as original equipment rope and for crane capacity upgrades. Also used as high strength engineered assembly cable for tension applications. Type V has little to no initial constructional stretch.

Sizes 11mm and 14 mm in left lay are original equipment ropes for some DEMAG crane types.



## Rope Characteristic:

Power 9 V is compacted to enhance the abrasion characteristic and to reduce sheave- and drum wear. Type Power-9V in combination with EEIPS (2160 N/mm<sup>2</sup>) wire tensile grades increases rope strength of up to about 50% over regular strength 6-strand types.

Power-9 is constructed from a total of up to 358 single wires compared to 265 single wires in traditional 6x36 wire rope. This results in a super strong yet super flexible rope.

Although Power-9 is our most successful high strength rope construction there are precautions we must address before you select this rope. One is that the direction of lay which must correspond to drum grooving, the other is that large fleet angles may cause high strands or core protrusion because the rope will 'roll' rather than 'glide' into the sheave groove. Any introduction of torque into (any) wire rope will cause structural damages.

## Standard:

EN 10264, 12385 where applicable

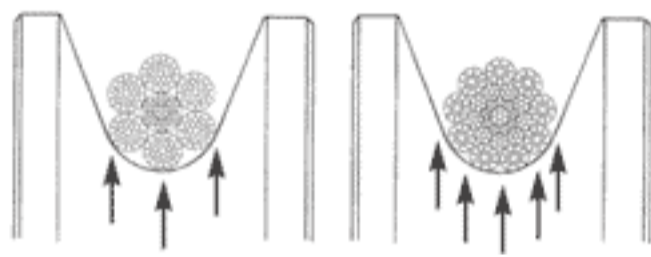
Do NOT use Python® Power-9 wire rope attached to a swivel. The rope WILL unlay resulting in an unsafe condition.

Block Twisting (Cabling) will occur when used exceeding certain lifting heights. Call for advice

## Python® Power-9 is NOT rotation resistant or non-rotating



Python® Power-9 is available in right- and left hand lay. Ask for availability from stock.



The Python® Power-9 construction provides an increase in contact points between rope and sheave. Less wear on the rope and of your equipment.

## Breaking Strengths

Note: The maximum CAPACITY, WORKING LOAD LIMIT (WLL), or LINE PULL of the rope usually is 1/5 of the below stated values. For specific information consult the standards applicable to your rope application.

## 9-Strand High Strength Crane Wire Rope

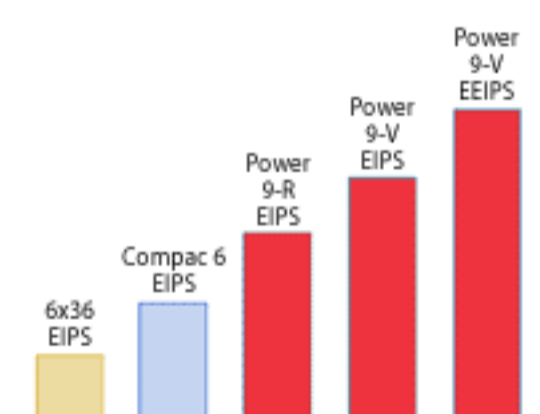
- Construction:
- 9 x 19 Seale (up to 7/8")
- 9 x 25 Filler (1" and up)

High strength rope type. Type 'V' is extra swage compacted.

Core is parallel laid to minimize strand nicking. Up to 40% strength increase over standard 6-strand constructions. Requires corresponding drum groove direction.

OEM rope on some DEMAG cranes. Ask us for details

## Strength Comparison:



Imperial Python Power-9				
Rope Dia. (inch)	Minimum Strength tons of 2000 lbs; Power-9 R (EIPS)	Minimum Strength tons of 2000 lbs; Power-9 V (EIPS)	Minimum Strength tons of 2000 lbs; Power-9 V (EEIPS)	Weight per foot lbs
7/16	12.1	--	--	0.4
1/2	16.1	17.5	19.3	0.53
9/16	20.4	22.2	24.5	1.58
5/8	25.6	27.8	30.6	2.1
3/4	36.1	39.2	43.2	2.66
7/8	49.2	52.6	57.9	1.58
1	65.6	70.1	77.2	2.1
1 - 1/8	83.2	88.8	97.9	2.66
1 - 1/4	104.2	111.2	122.5	3.33
1 - 3/8	123.9	132.3	145.7	3.96
1 - 1/2	146.9	156.8	172.8	4.7
1 - 5/8	173.6	185.2	204.1	5.55
1 - 3/4	197	210.2	231.6	6.3

Metric Python Power-9				
Rope Dia. (mm)	Minimum Strength in kn; Power-9 R 1960 N/mm <sup>2</sup>	Minimum Strength in kn; Power-9 V 1960 V/mm <sup>2</sup>	Minimum Strength in kn; Power-9 V 2160 N/mm <sup>2</sup>	Weight per mtr kgs*
10	89		--	0.49
11	107.7		--	0.59
12	128.1	139.1	153.3	0.71
13	150.4	163.3	180	0.83
14	174.4	189.4	208.7	0.96
15	200.2	217.4	239.6	1.1
16	227.8	247.4	272.6	1.26
17	257.2	279.3	307.8	1.42
18	288.3	313.1	345	1.59
19	321.2	348.8	384.4	1.77
20	355.9	386.5	426	1.96
22	438.3	467.7	515.4	2.34
24	521.6	556.6	613.4	2.79
26	612.1	653.2	719.9	3.27
28	709.9	757.6	834.9	3.79
30	815	869.7	958.4	4.36
32	927.3	989.5	1090.4	4.86
34	1047	1117	1231	5.6
36	1173.5	1252.3	1380.1	6.27
38	1307.5	1395.3	1537.7	6.99