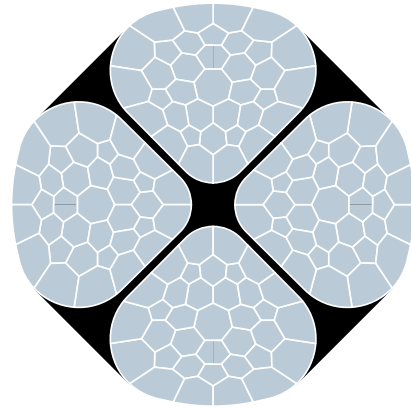


# VESTO FLATTEN<sup>®</sup> 4

## PRODUCT DETAILS

- Rotation resistant rope
- Strong against abrasion
- Excellent resistance to deformation
- High structural stability
- Excellent lifetime
- High MBL



## APPLICATIONS

- Mobile Crane
- Deck Crane

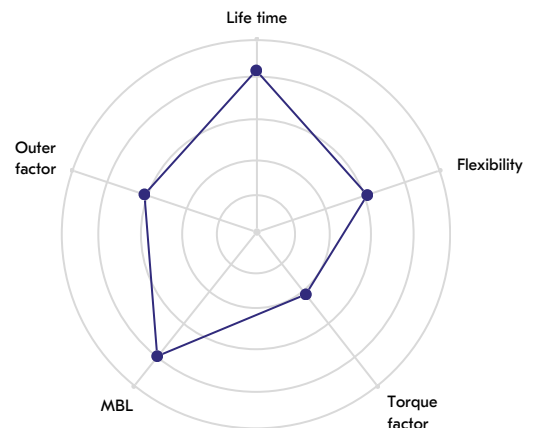
## SHEAVE GROOVE DIAMETER

Minimum 5% up to 10% larger than nominal diameter of wire rope. 6% is recommended. Ideally, at least 1% bigger than the actual diameter of new rope. 2% is recommended.

## PROPERTIES



—●— VESTO FLATTEN 4



## OVERVIEW

Type	4 × K36WS + FC
Size	8mm ~ 46mm
Number of total wires	144
Number of outer load bearing wires	144
Rope diameter tolerance	+2.0% - +4.0%
Fill factor	0.712
Spin loss factors	0.82
Elastic modulus	0.03 / 112,500N/mm <sup>2</sup> + or- 5,000N/mm <sup>2</sup>

**Nominal Diameter**

**Minimum Breaking Load (kN)**

**Approx Weight**

mm	inch	Cross section mm <sup>2</sup>	1960 N/mm <sup>2</sup>	2160 N/mm <sup>2</sup>	kg/m
8	5/16	35.8	55.1	58.9	0.30
9		45.3	69.8	74.6	0.38
10		55.9	86.1	92.1	0.47
11		67.7	104.2	111.4	0.57
12		80.5	124.0	132.6	0.68
13		94.5	145.6	155.6	0.79
14		109.6	168.8	180.5	0.92
14.3	9/16	114.4	176.1	188.3	0.96
15		125.8	193.8	207.2	1.06
16	5/8	143.2	220.5	235.8	1.20
17.5	11/16	171.3	263.8	282.0	1.44
18		181.2	279.1	298.4	1.52
19		201.9	310.9	332.5	1.69
20		223.7	344.5	368.4	1.88
21	13/16	246.6	379.8	406.2	2.07
22		270.7	416.9	445.8	2.27
22.2	7/8	275.6	424.5	453.9	2.31
23		295.8	455.6	487.2	2.48
24	15/16	322.1	496.1	530.5	2.70
25		349.5	538.3	575.6	2.93
25.4	1	360.8	555.7	594.2	3.03
26		378.0	582.2	622.6	3.17
28		438.4	675.3	722.0	3.68
28.6	1-1/8	457.4	704.5	753.3	3.84
30	1-3/16	503.3	775.2	828.9	4.22
31.8	1-1/4	565.5	871.0	931.3	4.75
32		572.6	882.0	943.1	4.81
34		646.4	995.7	1064.6	5.43
36		724.7	1116.3	1193.6	6.08
38	1-1/2	807.5	1243.7	1329.9	6.78
40		894.7	1378.1	1473.6	7.51
42		986.4	1519.4	1624.6	8.28
44		1082.6	1667.5	1783.0	9.09
46		1183.3	1822.5	1948.8	9.93

\*d = nominal diameter of rope

**Single Layer Drum**

**Multi Layer Drum**

2 Broken wires in (6d\*)

4 Broken wires in (30d\*)

4 Broken wires in (6d\*)

8 Broken wires in (30d\*)