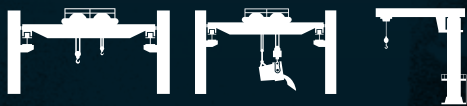


verope ®

HEAVY INDUSTRY

verope® special wire ropes

verostar 8



Overhead Crane

Ladle Crane

Jib Crane

APPLICATIONS

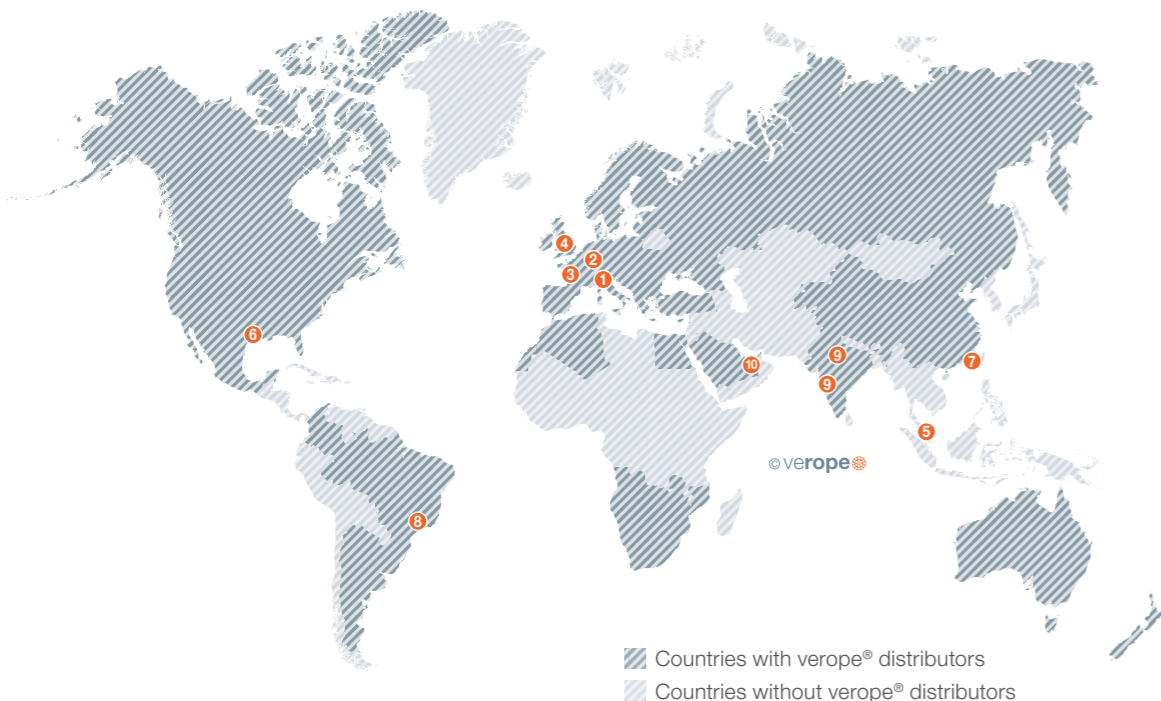
HEAVY INDUSTRY

Wire ropes must be capable of withstanding extreme ambient conditions and mechanical stresses present in heavy industry applications. verope® offers various ropes, rope end fittings and customer-specific special solutions specifically for the heavy industry. verope® provides a global distribution network for special wire ropes to serve the customers wherever the products are needed.

verope® offers the following services:

- Technical customer service
 - Technical advice including analysis, e.g. theoretical lifetime calculations
 - Rope & crane inspections (reeving system) and Reporting
 - Damage analysis
 - Training and Seminar
- A broad range of rope tests in our own testing facilities such as:
 - Tensile test up to 2500 kN
 - Bending fatigue test for various rope diameters
 - Various tests to determine the rotational behavior of ropes
 - Elongation measurement
 - Modulus of elasticity determination
 - Rope flexibility tests
 - Measurement of the diameter reduction under load
 - Radial Stability
 - Tension-tension fatigue test

verope® worldwide



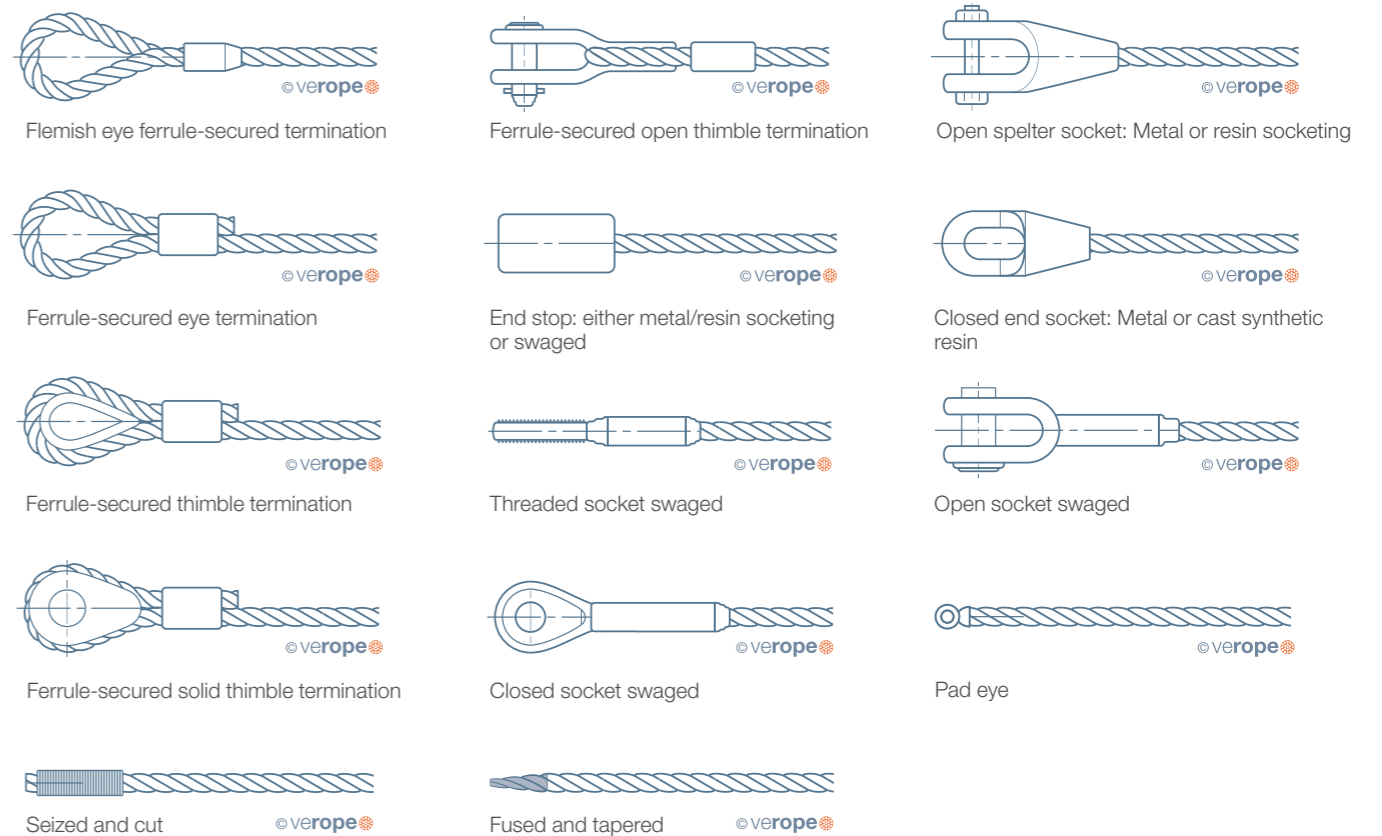
- | | |
|--|---|
| 1 verope® AG (Headquarters), Zug, Switzerland | 6 verope® USA, Houston, USA |
| 2 verope® Service Center GmbH, Contwig, Germany | 7 LTI Steel Wire Rope Co., Ltd., Shanghai, China |
| 3 verope® France, Paris, France | 8 verope® do Brasil, Resende, RJ, Brazil |
| 4 verope® UK, Birmingham, UK | 9 verope® Steel Wire Ropes Private Limited, Mumbai & New Delhi, India |
| 5 verope® Distribution Singapore Pte. Ltd, Singapore | 10 verope® Middle East, Dubai, UAE |

STANDARD ROPE END CONNECTIONS



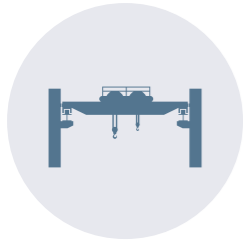
We are able to offer customized ropes with the correct end connections for crane brands such as:

- Liebherr • Terex • Sennebogen • Tadano Faun • Manitowoc • And much more

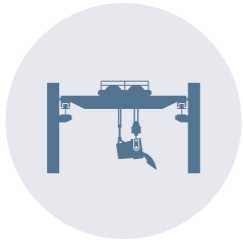


verope® can also offer customer-specific solutions in addition to the standard rope end connections. Special solutions on request.

ROPE APPLICATIONS FOR HEAVY INDUSTRY



Overhead Crane

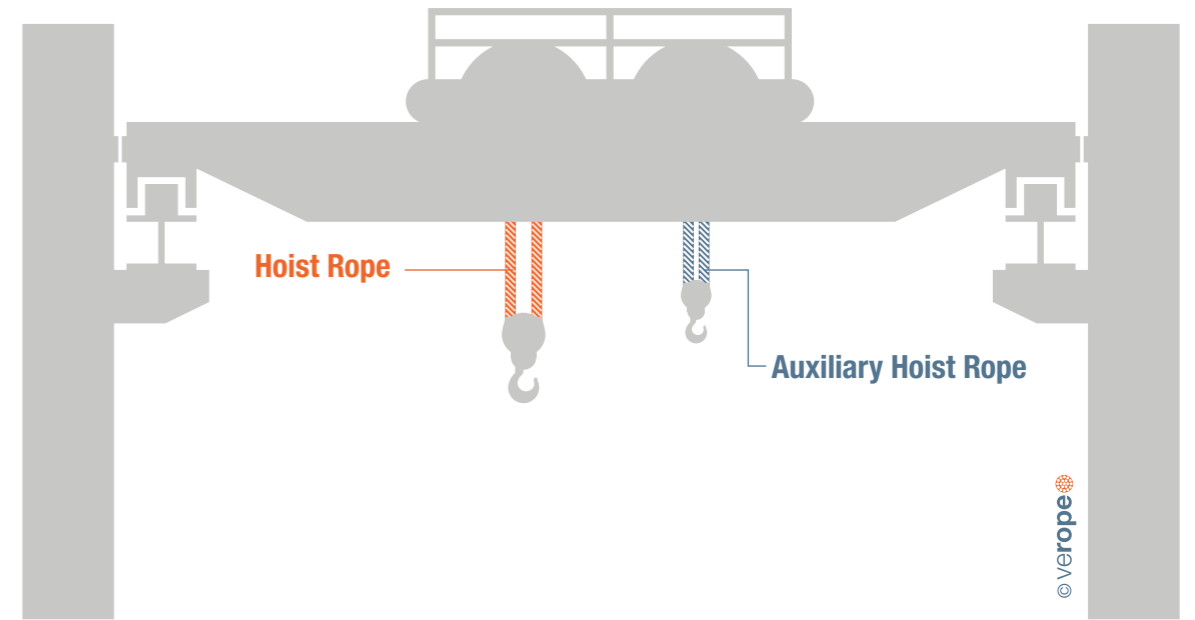


Ladle Crane



Jib Crane

OVERHEAD CRANE



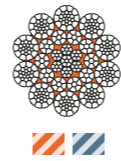
Overhead crane in cold operation.



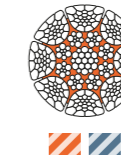
veropro 8 is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.



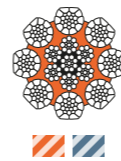
verostar 8³ is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.



verotech 10¹ is a very flexible 10-strand, non-rotation resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.



veropower 8¹ is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



veropro 8 RS is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.



verotop⁴ is a very flexible rotation-resistant rope with compacted strands.



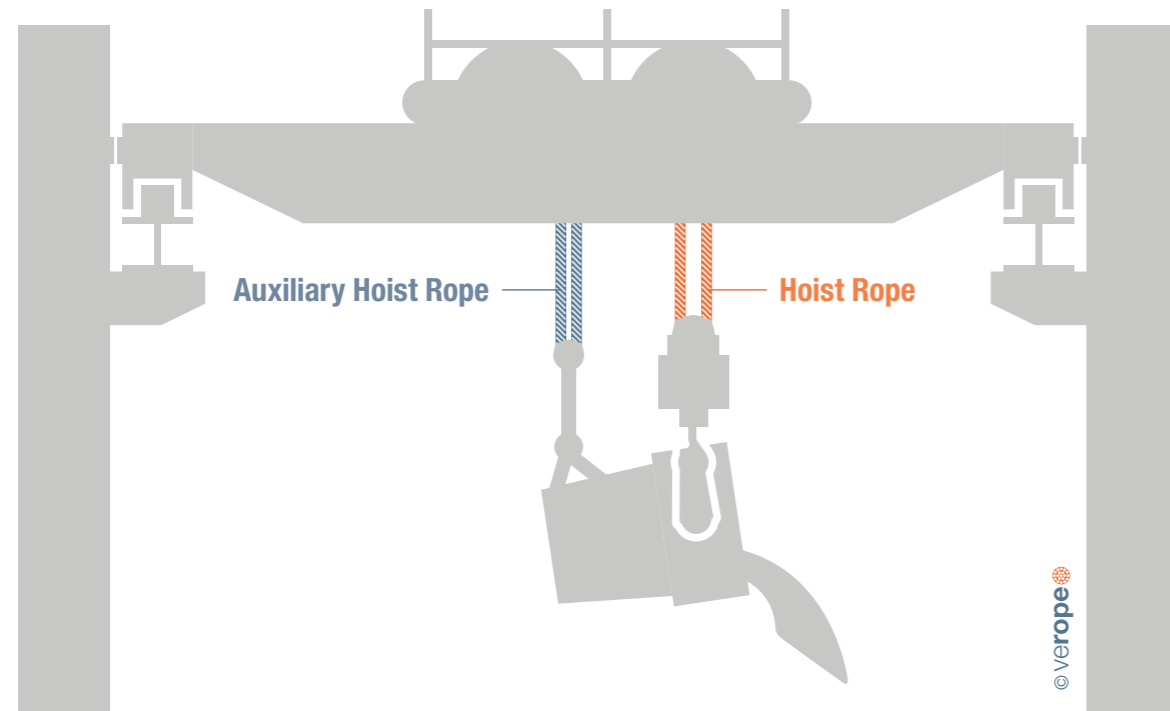
veropro 10² is a very flexible 10-strand, non-rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.



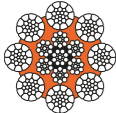
verotop E⁴ is a flexible rotation-resistant rope with compacted outer strands.

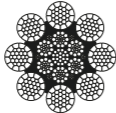
¹ For special applications | ² Only available from 30 mm diameter
³ Preferably for single-layer winding | ⁴ When a rotation-resistant rope is required

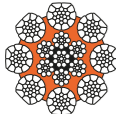
LADLE CRANE

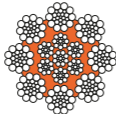


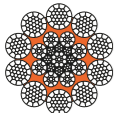
Ladle crane in warm operation.

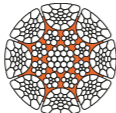
 **veropro 8** is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.

 **verosteel 8²** is an 8-strand, non-rotation-resistant rope with compacted outer strands.

 **veropro 8 RS** is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.

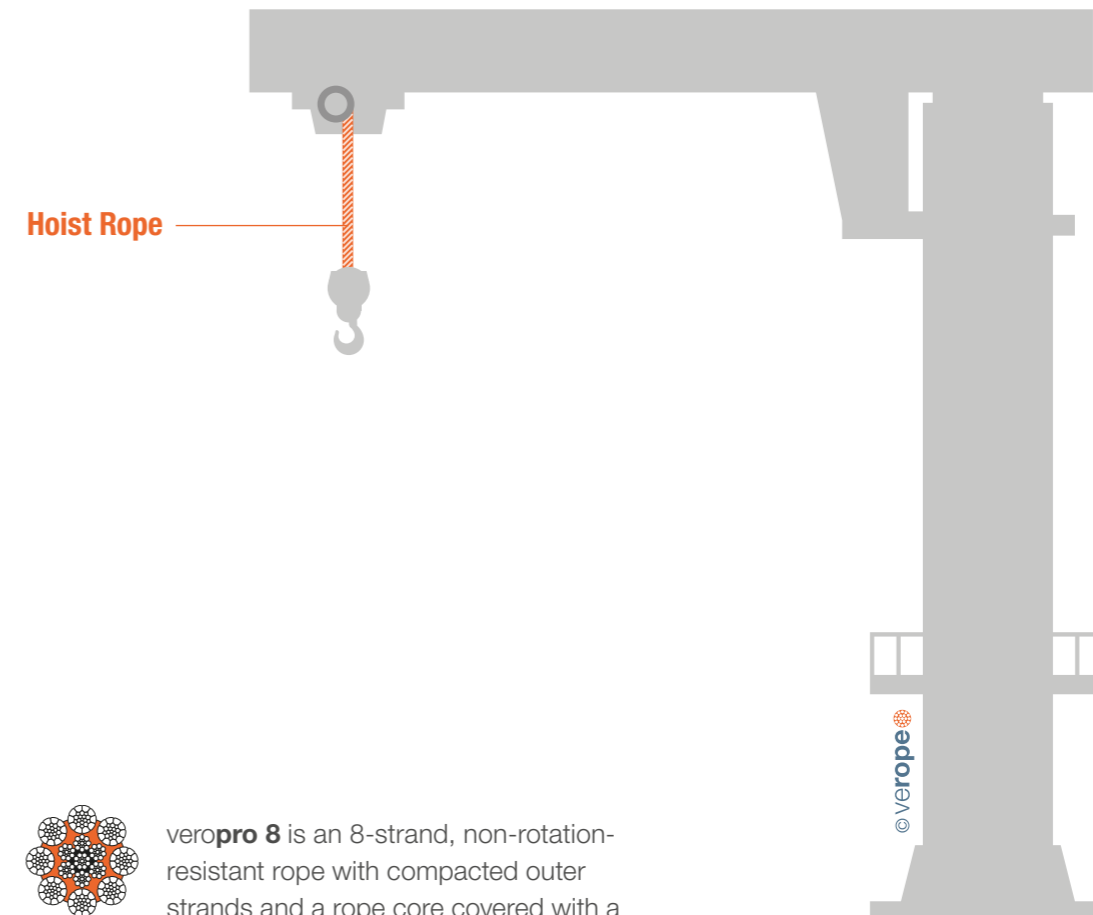
 **verostar 8³** is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.

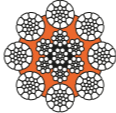
 **veropro 10¹** is a very flexible 10-strand, non-rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.

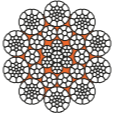
 **veropower 8⁴** is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.

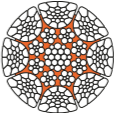
¹ Only available from 30 mm diameter | ² Casting crane with high temperatures
³ Preferably for single-layer winding | ⁴ For special applications

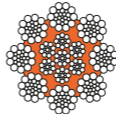
JIB CRANE

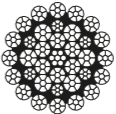


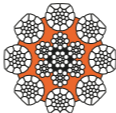
 **veropro 8** is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.

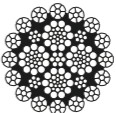
 **verotech 10¹** is a very flexible 10-strand, non-rotation resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.

 **veropower 8¹** is a rotary swaged 8-strand, non-rotation resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.

 **verostar 8²** is an 8-strand, non-rotation-resistant rope with conventional strands and a rope core covered with a plastic layer.

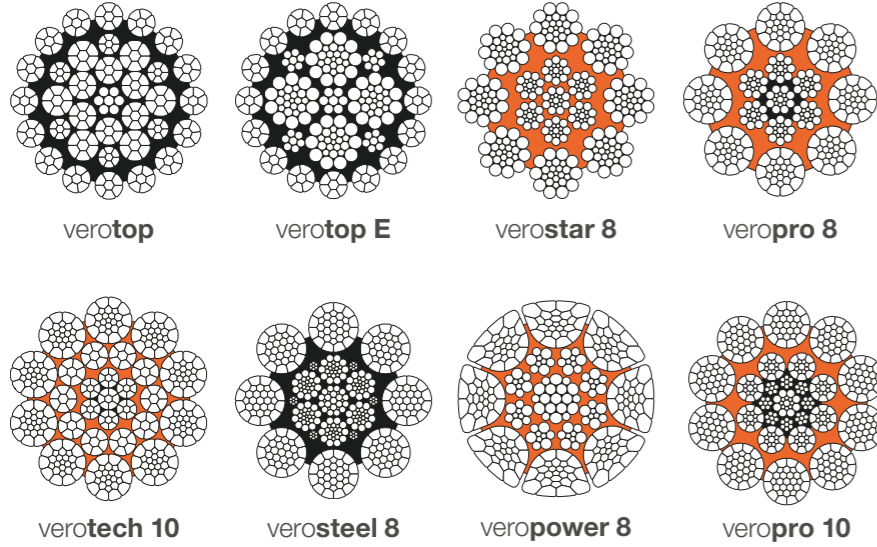
 **verotop³** is a very flexible rotation-resistant rope with compacted strands.

 **veropro 8 RS** is a rotary swaged 8-strand, non-rotation resistant rope with compacted outer strands and a rope core covered with a plastic layer.

 **verotop E³** is a flexible rotation-resistant rope with compacted outer strands.

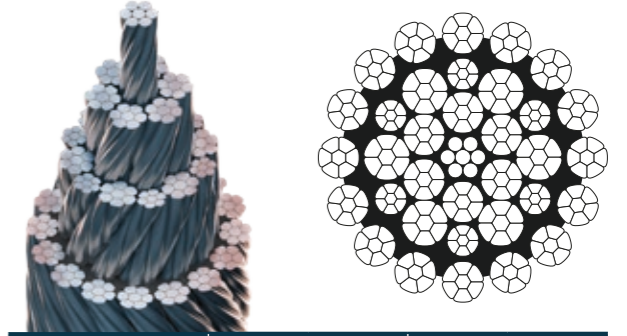
¹ For special applications | ² Preferably for single-layer winding | ³ When a rotation-resistant rope is required

SPECIAL WIRE ROPE APPLICATIONS FOR THE HEAVY INDUSTRY



VEROTOP

provides a very stable rope structure and achieves excellent bending fatigue results.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|-------------------|--------------------|
| | | | Rope grade | | Rope grade | |
| mm ² | Inch | kg/m | 1960 | 2160 | 1960 | 2160 |
| | | | kN | t | kN | t |
| 8 | 5/16 | 0.313 | 61.1 | 6.2 | 62.7 | 6.4 |
| 9 | | 0.397 | 77.3 | 7.9 | 79.4 | 8.1 |
| 10 | | 0.490 | 95.4 | 9.7 | 98.0 | 10 |
| 11 | 7/16 | 0.593 | 115.5 | 11.8 | 118.6 | 12.1 |
| 12 | | 0.705 | 137.4 | 14 | 141.2 | 14.4 |
| 12.7 | 1/2 | 0.790 | 153.9 | 15.7 | 158.1 | 16.1 |
| 13 | | 0.828 | 161.3 | 16.4 | 165.7 | 16.9 |
| 14 | | 0.960 | 187.0 | 19.1 | 192.2 | 19.6 |
| 15 | | 1.102 | 214.7 | 21.9 | 220.6 | 22.5 |
| 16 | 5/8 | 1.254 | 244.3 | 24.9 | 251.0 | 25.6 |
| 17 | | 1.415 | 275.8 | 28.1 | 283.3 | 28.9 |
| 18 | | 1.587 | 309.2 | 31.5 | 317.7 | 32.4 |
| 19 | 3/4 | 1.768 | 344.5 | 35.1 | 353.9 | 36.1 |
| 20 | | 1.959 | 381.7 | 38.9 | 392.2 | 40 |
| 21 | | 2.160 | 420.8 | 42.9 | 432.4 | 44.1 |
| 22 | | 2.371 | 461.9 | 47.1 | 474.5 | 48.4 |
| 22.4 | | 2.458 | 478.8 | 48.8 | 491.9 | 50.1 |
| 23 | | 2.591 | 504.8 | 51.4 | 518.6 | 52.9 |
| 24 | | 2.821 | 549.7 | 56 | 564.7 | 57.5 |
| 25 | | 3.061 | 596.4 | 60.8 | 612.8 | 62.4 |
| 25.4 | 1 | 3.160 | 615.7 | 62.7 | 632.5 | 64.5 |
| 26 | | 3.311 | 645.1 | 65.7 | 662.8 | 67.5 |
| 27 | | 3.571 | 695.7 | 70.9 | 714.7 | 72.8 |
| 28 | | 3.840 | 748.2 | 76.2 | 768.7 | 78.3 |
| 28.6 | 1-1/8 | 4.006 | 780.6 | 79.5 | 802.0 | 81.7 |
| 29 | | 4.119 | 802.6 | 81.8 | 824.5 | 84 |
| 30 | | 4.408 | 858.9 | 87.5 | 882.4 | 89.9 |
| 31 | | 4.707 | 917.1 | 93.4 | 942.2 | 96 |
| 32 | 1-1/4 | 5.015 | 977.2 | 99.6 | 1004 | 102.3 |
| 33 | | 5.334 | 1039 | 105.9 | 1068 | 108.8 |
| 34 | | 5.662 | 1103 | 112.4 | 1133 | 115.5 |
| 35 | 1-3/8 | 6.000 | 1169 | 119.1 | 1201 | 122.4 |
| 36 | | 6.348 | 1237 | 126 | 1271 | 129.5 |
| 38 | 1-1/2 | 7.072 | 1378 | 140.4 | 1416 | 144.3 |
| 40 | | 7.837 | 1527 | 155.6 | 1569 | 159.8 |
| 41 | | 8.233 | 1604 | 163.5 | 1648 | 167.9 |
| 42 | | 8.640 | 1683 | 171.5 | 1729 | 176.2 |
| 43 | | 9.056 | 1764 | 179.8 | 1813 | 184.7 |
| 44 | | 9.482 | 1848 | 188.3 | 1898 | 193.4 |
| 45 | 1-3/4 | 9.918 | 1932 | 196.9 | 1985 | 202.3 |
| 46 | | 10.364 | 2019 | 205.8 | 2075 | 211.4 |
| 48 | | 11.285 | 2199 | 224 | 2259 | 230.2 |
| 50 | 2 | 12.245 | 2386 | 243.1 | 2451 | 249.8 |
| 52 | | 13.244 | 2580 | 262.9 | 2651 | 270.1 |
| 54 | 2-1/8 | 14.282 | 2783 | 283.6 | | |
| 56 | | 15.360 | 2993 | 305 | | |
| 58 | | 17.01 | 3098 | 315.9 | 3258 ² | 332.2 ² |
| 60 | | 18.20 | 3333 | 339.9 | 3505 ² | 357.4 ² |
| 62 | | 19.44 | 3517 | 358.6 | 3698 ² | 377.1 ² |
| 64 | | 20.71 | 3775 | 384.9 | 3969 ² | 404.7 ² |
| 66 | | 21.37 | 3972 | 405 | 4094 ² | 417.5 ² |
| 68 | | 23.38 | 4251 | 433.5 | 4470 ² | 455.8 ² |
| 70 | 2-3/4 | 24.78 | 4535 | 462.4 | 4769 ² | 486.3 ² |
| 72 | | 26.21 | 4809 | 490 | 5057 ² | 515.7 ² |

| Nominal rope diameter | | Approx mass | | Minimum breaking force tons ¹ of 2000 lbs | |
|-----------------------|-------|--------------------|--------------------|--|--------------------|
| | | | | Rope grade | |
| mm [*] | Inch | lb/ft ¹ | kg/ft ¹ | 1960 | 2160 |
| 8 | 5/16 | 0.21 | 0.1 | 6.9 | 7.1 |
| 9 | | 0.27 | 0.12 | 8.7 | 8.9 |
| 10 | | 0.33 | 0.15 | 10.7 | 11 |
| 11 | 7/16 | 0.4 | 0.18 | 13 | 13.3 |
| 12 | | 0.47 | 0.22 | 15.4 | 15.9 |
| 12.7 | 1/2 | 0.53 | 0.24 | 17.3 | 17.8 |
| 13 | | 0.56 | 0.25 | 18.1 | 18.6 |
| 14 | | 0.65 | 0.29 | 21 | 21.6 |
| 15 | | 0.74 | 0.34 | 24.1 | 24.8 |
| 16 | 5/8 | 0.84 | 0.38 | 27.5 | 28.2 |
| 17 | | 0.95 | 0.43 | 31 | 31.8 |
| 18 | | 1.07 | 0.48 | 34.8 | 35.7 |
| 19 | 3/4 | 1.19 | 0.54 | 38.7 | 39.8 |
| 20 | | 1.32 | 0.6 | 42.9 | 44.1 |
| 21 | | 1.45 | 0.66 | 47.3 | 48.6 |
| 22 | | 1.59 | 0.72 | 51.9 | 53.3 |
| 22.4 | | 1.65 | 0.75 | 53.8 | 55.3 |
| 23 | | 1.74 | 0.79 | 56.7 | 58.3 |
| 24 | | 1.9 | 0.86 | 61.8 | 63.5 |
| 25 | | 2.06 | 0.93 | 67 | 68.9 |
| 25.4 | 1 | 2.12 | 0.96 | 69.2 | 71.1 |
| 26 | | 2.22 | 1.01 | 72.5 | 74.5 |
| 27 | | 2.4 | 1.09 | 78.2 | 80.3 |
| 28 | | 2.58 | 1.17 | 84.1 | 86.4 |
| 28.6 | 1-1/8 | 2.69 | 1.22 | 87.7 | 90.1 |
| 29 | | 2.77 | 1.26 | 90.2 | 92.7 |
| 30 | | 2.96 | 1.34 | 96.5 | 99.2 |
| 31 | | 3.16 | 1.44 | 103.1 | 105.9 |
| 32 | 1-1/4 | 3.37 | 1.53 | 109.8 | 112.8 |
| 33 | | 3.58 | 1.63 | 116.8 | 120 |
| 34 | | 3.8 | 1.73 | 124 | 127.4 |
| 35 | 1-3/8 | 4.03 | 1.83 | 131.4 | 135 |
| 36 | | 4.27 | 1.94 | 139 | 142.8 |
| 38 | 1-1/2 | 4.75 | 2.16 | 154.9 | 159.1 |
| 40 | | 5.27 | 2.39 | 171.6 | 176.3 |
| 41 | | 5.53 | 2.51 | 180.3 | 185.2 |
| 42 | | 5.81 | 2.63 | 189.2 | 194.4 |
| 43 | | 6.09 | 2.76 | 198.3 | 203.8 |
| 44 | | 6.37 | 2.89 | 207.7 | 213.3 |
| 45 | 1-3/4 | 6.66 | 3.02 | 217.2 | 223.2 |
| 46 | | 6.96 | 3.16 | 227 | 233.2 |
| 48 | | 7.58 | 3.44 | 247.1 | 253.9 |
| 50 | 2 | 8.23 | 3.73 | 268.2 | 275.5 |
| 52 | | 8.9 | 4.04 | 290 | 298 |
| 54 | 2-1/8 | 9.6 | 4.35 | 312.8 | |
| 56 | | 10.32 | 4.68 | 336.4 | |
| 58 | | 11.43 | 5.18 | 348.2 | 366.2 ² |
| 60 | | 12.23 | 5.54 | 374.6 | 394 ² |
| 62 | | 13.06 | 5.93 | 395.3 | 415.7 ² |
| 64 | | 13.91 | 6.31 | 424.3 | 446.1 ² |
| 66 | | 14.36 | 6.51 | 446.5 | 460.2 ² |
| 68 | | 15.71 | 7.13 | 477.8 | 502.4 ² |
| 70 | 2-3/4 | 16.65 | 7.55 | 509.8 | 536.1 ² |
| 72 | | 17.61 | 7.99 | 540.6 | 568.4 ² |

verotop/2024/10

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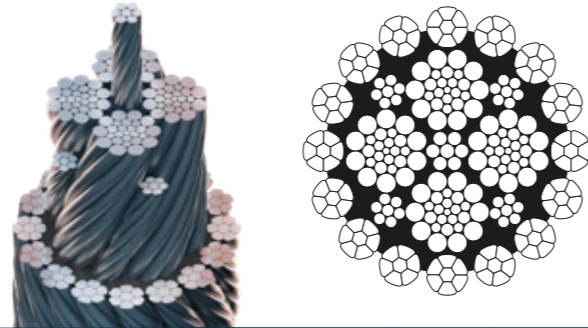
*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications.

Relevant is our website www.verope.com

VEROTOP E

combines high breaking strength and good rotation resistance with remarkable efficiency.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|-------|-------|
| | | | Rope grade | | | |
| | | | 1960 | | 2160 | |
| mm* | Inch | kg/m | kN | t | kN | t |
| 8 | 5/16 | 0.305 | 55.2 | 5.6 | 60.2 | 6.1 |
| 9 | | 0.387 | 69.8 | 7.1 | 76.2 | 7.8 |
| 10 | | 0.477 | 86.2 | 8.8 | 94.1 | 9.6 |
| 11 | 7/16 | 0.577 | 104.3 | 10.6 | 113.9 | 11.6 |
| 12 | | 0.687 | 124.1 | 12.6 | 135.5 | 13.8 |
| 13 | | 0.806 | 145.7 | 14.8 | 159.1 | 16.2 |
| 14 | | 0.935 | 169.0 | 17.2 | 184.5 | 18.8 |
| 15 | | 1.074 | 194.0 | 19.8 | 211.8 | 21.6 |
| 16 | 5/8 | 1.222 | 220.7 | 22.5 | 241.0 | 24.6 |
| 18 | | 1.546 | 279.3 | 28.5 | 305.0 | 31.1 |
| 19 | 3/4 | 1.723 | 311.2 | 31.7 | 339.8 | 34.6 |
| 20 | | 1.909 | 344.8 | 35.1 | 376.5 | 38.4 |
| 22 | | 2.310 | 417.2 | 42.5 | 455.6 | 46.4 |
| 23 | | 2.524 | 456.0 | 46.5 | 497.9 | 50.7 |
| 24 | | 2.749 | 496.5 | 50.6 | 542.1 | 55.2 |
| 25 | | 2.983 | 538.8 | 54.9 | 588.3 | 59.9 |
| 26 | | 3.226 | 582.7 | 59.4 | 636.3 | 64.8 |
| 27 | | 3.479 | 628.4 | 64 | 686.2 | 69.9 |
| 28 | | 3.741 | 675.8 | 68.9 | 737.9 | 75.2 |
| 29 | | 4.013 | 725.0 | 73.9 | 791.6 | 80.7 |
| 30 | | 4.295 | 775.8 | 79.1 | 847.1 | 86.3 |
| 32 | 1-1/4 | 4.887 | 882.7 | 90 | 963.8 | 98.2 |
| 34 | | 5.517 | 983.8 | 100.3 | 1077 | 109.8 |
| 35 | 1-3/8 | 5.846 | 1043 | 106.2 | 1142 | 116.3 |
| 36 | | 6.185 | 1103 | 112.4 | 1208 | 123.1 |
| 38 | 1-1/2 | 6.891 | 1229 | 125.2 | 1346 | 137.1 |
| 40 | | 7.635 | 1362 | 138.8 | 1491 | 151.9 |

| Nominal rope diameter | | Approx mass | | Minimum breaking force tons' of 2000 lbs | |
|-----------------------|-------|-------------|--------|--|-------|
| | | | | Rope grade | |
| | | | | 1960 | 2160 |
| mm* | Inch | lb/ft¹ | kg/ft¹ | 1960 | 2160 |
| 8 | 5/16 | 0.21 | 0.09 | 6.2 | 6.8 |
| 9 | | 0.26 | 0.12 | 7.8 | 8.6 |
| 10 | | 0.32 | 0.15 | 9.7 | 10.6 |
| 11 | 7/16 | 0.39 | 0.18 | 11.7 | 12.8 |
| 12 | | 0.46 | 0.21 | 14 | 15.2 |
| 13 | | 0.54 | 0.25 | 16.4 | 17.9 |
| 14 | | 0.63 | 0.29 | 19 | 20.7 |
| 15 | | 0.72 | 0.33 | 21.8 | 23.8 |
| 16 | 5/8 | 0.82 | 0.37 | 24.8 | 27.1 |
| 18 | | 1.04 | 0.47 | 31.4 | 34.3 |
| 19 | 3/4 | 1.16 | 0.53 | 35 | 38.2 |
| 20 | | 1.28 | 0.58 | 38.8 | 42.3 |
| 22 | | 1.55 | 0.7 | 46.9 | 51.2 |
| 23 | | 1.7 | 0.77 | 51.3 | 56 |
| 24 | | 1.85 | 0.84 | 55.8 | 60.9 |
| 25 | | 2 | 0.91 | 60.6 | 66.1 |
| 26 | | 2.17 | 0.98 | 65.5 | 71.5 |
| 27 | | 2.34 | 1.06 | 70.6 | 77.1 |
| 28 | | 2.51 | 1.14 | 76 | 82.9 |
| 29 | | 2.7 | 1.22 | 81.5 | 89 |
| 30 | | 2.89 | 1.31 | 87.2 | 95.2 |
| 32 | 1-1/4 | 3.28 | 1.49 | 99.2 | 108.3 |
| 34 | | 3.71 | 1.68 | 110.6 | 121.1 |
| 35 | 1-3/8 | 3.93 | 1.78 | 117.2 | 128.3 |
| 36 | | 4.16 | 1.89 | 124 | 135.8 |
| 38 | 1-1/2 | 4.63 | 2.1 | 138.1 | 151.3 |
| 40 | | 5.13 | 2.33 | 153.1 | 167.6 |

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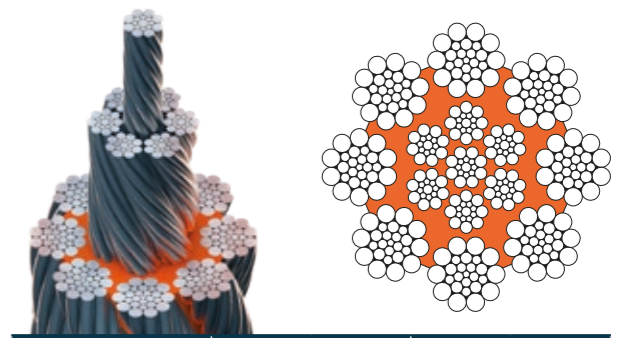
*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications.

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VEROSTAR 8

achieves best service life in reeving systems with single layer drums.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|-------|-------|
| | | | Rope grade | | | |
| | | | 1770 | | 1960 | |
| mm* | Inch | kg/m | kN | t | kN | t |
| 6 | | 0.155 | 26.9 | 2.74 | 29.8 | 3 |
| 7 | | 0.211 | 36.6 | 3.73 | 40.6 | 4.1 |
| 8 | 5/16 | 0.276 | 47.9 | 4.9 | 53.0 | 5.4 |
| 9 | | 0.349 | 60.6 | 6.2 | 67.1 | 6.8 |
| 10 | | 0.431 | 74.8 | 7.6 | 82.8 | 8.4 |
| 11 | 7/16 | 0.522 | 90.5 | 9.2 | 100.2 | 10.2 |
| 12 | | 0.621 | 107.7 | 11 | 119.3 | 12.2 |
| 12.7 | 1/2 | 0.695 | 120.6 | 12.3 | 133.6 | 13.6 |
| 13 | | 0.729 | 126.4 | 12.9 | 140.0 | 14.3 |
| 14 | | 0.845 | 146.6 | 14.9 | 162.3 | 16.5 |
| 15 | | 0.970 | 168.3 | 17.1 | 186.3 | 19 |
| 16 | 5/8 | 1.104 | 191.5 | 19.5 | 212.0 | 21.6 |
| 17 | | 1.246 | 216.2 | 22 | 239.4 | 24.4 |
| 18 | | 1.397 | 242.3 | 24.7 | 268.3 | 27.3 |
| 19 | 3/4 | 1.557 | 270.0 | 27.5 | 299.0 | 30.5 |
| 20 | | 1.725 | 299.2 | 30.5 | 331.3 | 33.8 |
| 21 | | 1.902 | 329.8 | 33.6 | 365.2 | 37.2 |
| 22 | | 2.087 | 362.0 | 36.9 | 400.9 | 40.8 |
| 22.4 | | 2.164 | 375.3 | 38.2 | 415.6 | 42.3 |
| 23 | | 2.281 | 395.7 | 40.3 | 438.1 | 44.6 |
| 24 | | 2.484 | 430.8 | 43.9 | 477.1 | 48.6 |
| 25 | | 2.695 | 467.5 | 47.6 | 517.6 | 52.7 |
| 25.4 | 1 | 2.782 | 482.5 | 49.2 | 534.3 | 54.4 |
| 26 | | 2.915 | 505.6 | 51.5 | 559.9 | 57.1 |
| 27 | | 3.143 | 545.2 | 55.6 | 603.8 | 61.5 |
| 28 | | 3.380 | 586.4 | 59.8 | 649.3 | 66.2 |
| 28.6 | 1-1/8 | 3.527 | 611.8 | 62.3 | 677.4 | 69 |
| 29 | | 3.626 | 629.0 | 64.1 | 696.5 | 71 |
| 30 | | 3.881 | 673.1 | 68.6 | 745.4 | 76 |
| 31 | | 4.144 | 718.8 | 73.2 | 795.9 | 81.1 |
| 32 | 1-1/4 | 4.415 | 765.9 | 78 | 848.1 | 86.4 |
| 33 | | 4.696 | 814.5 | 83 | 901.9 | 91.9 |
| 34 | | 4.984 | 864.6 | 88.1 | 957.4 | 97.6 |
| 35 | 1-3/8 | 5.282 | 916.2 | 93.4 | 1015 | 103.4 |
| 36 | | 5.588 | 969.3 | 98.8 | 1073 | 109.4 |
| 38 | 1-1/2 | 6.226 | 1080 | 110.1 | 1196 | 121.9 |
| 40 | | 6.899 | 1197 | 121.9 | 1325 | 135 |
| 41.3 | 1-5/8 | 7.355 | 1276 | 130 | 1413 | 144 |
| 42 | | 7.606 | 1319 | 134.4 | 1461 | 148.9 |
| 44 | | 8.348 | 1448 | 147.6 | 1603 | 163.4 |
| 45 | 1-3/4 | 8.731 | 1515 | 154.3 | 1677 | 170.9 |
| 46 | | 9.124 | 1583 | 161.3 | 1753 | 178.6 |
| 47.5 | 1-7/8 | 9.729 | 1688 | 172 | 1869 | 190.4 |
| 48 | | 9.934 | 1723 | 175.6 | 1908 | 194.4 |
| 50 | 2 | 10.780 | 1870 | 190.5 | 2071 | 211 |
| 52 | | 11.659 | 2022 | 206.1 | 2239 | 228.2 |
| 54 | 2-1/8 | 12.573 | 2181 | 222.2 | 2415 | 246.1 |
| 56 | | 13.522 | 2346 | 239 | 2597 | 264.7 |
| 58 | | 14.505 | 2516 | 256.4 | 2786 | 283.9 |
| 60 | 2-3/8 | 15.523 | 2693 | 274.4 | 2982 | 303.8 |

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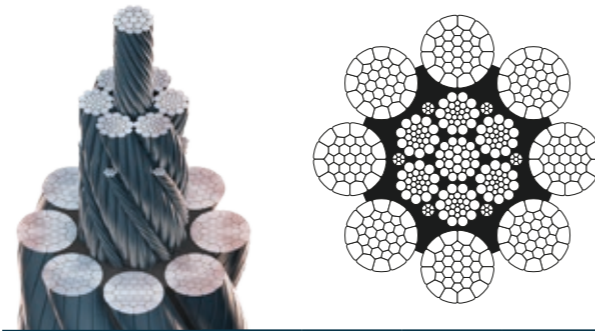
*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

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VEROSTEEL 8

Offers best general properties at high ambient temperatures.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|-------|-------|
| | | | Rope grade | | | |
| | | | 1960 | | 2160 | |
| mm* | Inch | kg/m | kN | t | kN | t |
| 16 | 5/8 | 1.164 | 235.1 | 24 | 254.4 | 25.9 |
| 17 | | 1.315 | 265.5 | 27.1 | 287.2 | 29.3 |
| 18 | | 1.474 | 297.6 | 30.3 | 322.0 | 32.8 |
| 19 | 3/4 | 1.642 | 331.6 | 33.8 | 358.7 | 36.6 |
| 20 | | 1.819 | 367.4 | 37.4 | 397.5 | 40.5 |
| 21 | | 2.006 | 405.1 | 41.3 | 438.2 | 44.7 |
| 22 | | 2.202 | 444.6 | 45.3 | 481.0 | 49 |
| 23 | | 2.406 | 485.9 | 49.5 | 525.7 | 53.6 |
| 24 | | 2.620 | 529.1 | 53.9 | 572.4 | 58.3 |
| 25 | | 2.843 | 574.1 | 58.5 | 621.1 | 63.3 |
| 26 | | 3.075 | 620.9 | 63.3 | 671.7 | 68.5 |
| 27 | | 3.316 | 669.6 | 68.2 | 724.4 | 73.8 |
| 28 | | 3.566 | 720.1 | 73.4 | 779.1 | 79.4 |
| 29 | | 3.825 | 772.5 | 78.7 | 835.7 | 85.2 |
| 30 | | 4.094 | 826.7 | 84.2 | 894.3 | 91.1 |
| 31 | | 4.371 | 882.7 | 89.9 | 954.9 | 97.3 |
| 32 | 1-1/4 | 4.658 | 940.6 | 95.8 | 1018 | 103.7 |
| 33 | | 4.953 | 1000 | 101.9 | 1082 | 110.3 |
| 34 | | 5.258 | 1062 | 108.2 | 1149 | 117.1 |
| 35 | 1-3/8 | 5.572 | 1125 | 114.7 | 1217 | 124 |
| 36 | | 5.895 | 1190 | 121.3 | 1288 | 131.2 |
| 37 | | 6.227 | 1257 | 128.1 | 1360 | 138.6 |
| 38 | 1-1/2 | 6.568 | 1326 | 135.2 | 1435 | 146.2 |
| 39 | | 6.918 | 1397 | 142.4 | 1511 | 154 |
| 40 | | 7.278 | 1470 | 149.8 | 1590 | 162 |
| 41 | | 7.646 | 1544 | 157.3 | 1670 | 170.2 |
| 42 | | 8.024 | 1620 | 165.1 | 1753 | 178.6 |
| 43 | | 8.410 | 1698 | 173.1 | 1837 | 187.2 |
| 44 | | 8.806 | 1778 | 181.2 | 1924 | 196 |
| 45 | 1-3/4 | 9.211 | 1860 | 189.5 | 2012 | 205 |
| 46 | | 9.625 | 1944 | 198.1 | 2103 | 214.3 |
| 47 | | 10.05 | 2029 | 206.8 | 2195 | 223.7 |
| 48 | | 10.48 | 2116 | 215.7 | 2289 | 233.3 |
| 49 | | 10.92 | 2205 | 224.7 | 2386 | 243.1 |
| 50 | 2 | 11.37 | 2296 | 234 | 2484 | 253.1 |

| Nominal rope diameter | | Approx mass | | Minimum breaking force tons ¹ of 2000 lbs | |
|-----------------------|-------|--------------------|--------------------|--|-------|
| | | | | Rope grade | |
| | | | | 1960 | 2160 |
| mm* | Inch | lb/ft ¹ | kg/ft ¹ | 1960 | 2160 |
| 16 | 5/8 | 0.78 | 0.36 | 26.4 | 28.6 |
| 17 | | 0.88 | 0.4 | 29.8 | 32.3 |
| 18 | | 0.99 | 0.45 | 33.5 | 36.2 |
| 19 | 3/4 | 1.1 | 0.5 | 37.3 | 40.3 |
| 20 | | 1.22 | 0.55 | 41.3 | 44.7 |
| 21 | | 1.35 | 0.61 | 45.5 | 49.3 |
| 22 | | 1.48 | 0.67 | 50 | 54.1 |
| 23 | | 1.62 | 0.73 | 54.6 | 59.1 |
| 24 | | 1.76 | 0.8 | 59.5 | 64.3 |
| 25 | | 1.91 | 0.87 | 64.5 | 69.8 |
| 26 | | 2.07 | 0.94 | 69.8 | 75.5 |
| 27 | | 2.23 | 1.01 | 75.3 | 81.4 |
| 28 | | 2.4 | 1.09 | 80.9 | 87.6 |
| 29 | | 2.57 | 1.17 | 86.8 | 93.9 |
| 30 | | 2.75 | 1.25 | 92.9 | 100.5 |
| 31 | | 2.94 | 1.33 | 99.2 | 107.3 |
| 32 | 1-1/4 | 3.13 | 1.42 | 105.7 | 114.4 |
| 33 | | 3.33 | 1.51 | 112.4 | 121.6 |
| 34 | | 3.53 | 1.6 | 119.4 | 129.1 |
| 35 | 1-3/8 | 3.74 | 1.7 | 126.5 | 136.8 |
| 36 | | 3.96 | 1.8 | 133.8 | 144.8 |
| 37 | | 4.18 | 1.9 | 141.3 | 152.9 |
| 38 | 1-1/2 | 4.41 | 2 | 149.1 | 161.3 |
| 39 | | 4.65 | 2.11 | 157 | 169.9 |
| 40 | | 4.89 | 2.22 | 165.2 | 178.7 |
| 41 | | 5.14 | 2.33 | 173.6 | 187.8 |
| 42 | | 5.39 | 2.45 | 182.1 | 197 |
| 43 | | 5.65 | 2.56 | 190.9 | 206.5 |
| 44 | | 5.92 | 2.68 | 199.9 | 216.2 |
| 45 | 1-3/4 | 6.19 | 2.81 | 209.1 | 226.2 |
| 46 | | 6.47 | 2.93 | 218.5 | 236.3 |
| 47 | | 6.75 | 3.06 | 228.1 | 246.7 |
| 48 | | 7.04 | 3.2 | 237.9 | 257.3 |
| 49 | | 7.34 | 3.33 | 247.9 | 268.2 |
| 50 | 2 | 7.64 | 3.47 | 258.1 | 279.2 |

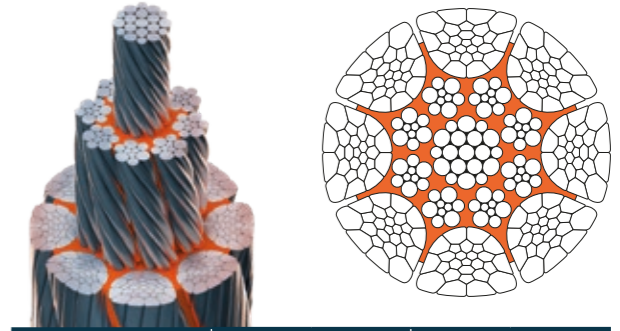
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1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications. Relevant is our website www.verope.com

VEROPOWER 8

has very high structural stability, achieves excellent bending fatigue results.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|-------|-------|
| | | | Rope grade | | | |
| | | | 1960 | | 2160 | |
| mm* | Inch | kg/m | kN | t | kN | t |
| 12 | | 0.717 | 147.4 | 15 | 158.8 | 16.2 |
| 12.7 | 1/2 | 0.803 | 165.1 | 16.8 | 177.9 | 18.1 |
| 13 | | 0.842 | 173.0 | 17.6 | 186.4 | 19 |
| 14 | | 0.976 | 200.6 | 20.4 | 216.2 | 22 |
| 15 | | 1.121 | 230.3 | 23.5 | 248.2 | 25.3 |
| 16 | 5/8 | 1.275 | 262.0 | 26.7 | 282.3 | 28.8 |
| 17 | | 1.440 | 295.8 | 30.1 | 318.7 | 32.5 |
| 18 | | 1.614 | 331.6 | 33.8 | 357.3 | 36.4 |
| 19 | 3/4 | 1.798 | 369.5 | 37.6 | 398.1 | 40.6 |
| 20 | | 1.992 | 409.4 | 41.7 | 441.2 | 45 |
| 21 | | 2.197 | 451.3 | 46 | 486.4 | 49.6 |
| 22 | | 2.411 | 495.3 | 50.5 | 533.8 | 54.4 |
| 22.4 | | 2.499 | 513.5 | 52.3 | 553.4 | 56.4 |
| 23 | | 2.635 | 541.4 | 55.2 | 583.4 | 59.5 |
| 24 | | 2.869 | 589.5 | 60.1 | 635.3 | 64.7 |
| 25 | | 3.113 | 639.6 | 65.2 | 689.3 | 70.2 |
| 25.4 | 1 | 3.214 | 660.3 | 67.3 | 711.5 | 72.5 |
| 26 | | 3.367 | 691.8 | 70.5 | 745.6 | 76 |
| 27 | | 3.631 | 746.1 | 76 | 804.0 | 81.9 |
| 28 | | 3.905 | 802.4 | 81.8 | 864.7 | 88.1 |
| 28.6 | 1-1/8 | 4.074 | 837.1 | 85.3 | 902.1 | 91.9 |
| 29 | | 4.189 | 860.7 | 87.7 | 927.5 | 94.5 |
| 30 | | 4.483 | 921.1 | 93.9 | 992.6 | 101.1 |
| 31 | | 4.787 | 983.5 | 100.2 | 1060 | 108 |
| 32 | 1-1/4 | 5.101 | 1048 | 106.8 | 1129 | 115.1 |
| 33 | | 5.424 | 1115 | 113.6 | 1201 | 122.4 |
| 34 | | 5.758 | 1183 | 120.6 | 1275 | 129.9 |
| 35 | 1-3/8 | 6.102 | 1254 | 127.8 | 1351 | 137.7 |
| 36 | | 6.455 | 1326 | 135.2 | 1429 | 145.7 |
| 38 | 1-1/2 | 7.193 | 1478 | 150.6 | 1593 | 162.3 |
| 40 | | 7.970 | 1637 | 166.9 | 1765 | 179.8 |
| 41.3 | 1-5/8 | 8.496 | 1746 | 177.9 | 1881 | 191.7 |
| 42 | | 8.787 | 1805 | 184 | 1946 | 198.2 |
| 44 | | 9.643 | 1981 | 201.9 | 2135 | 217.6 |
| 45 | 1-3/4 | 10.09 | 2072 | 211.2 | 2233 | 227.6 |
| 46 | | 10.54 | 2166 | 220.7 | 2334 | 237.8 |
| 47.5 | 1-7/8 | 11.24 | 2309 | 235.3 | 2488 | 253.6 |
| 48 | | 11.48 | 2358 | 240.3 | 2541 | 258.9 |

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*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.
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VEROPRO 10

is an extremely flexible rope with very high breaking strength and achieves excellent bending fatigue results.



| Nominal rope diameter | | Approx mass | Minimum breaking force | | | |
|-----------------------|-------|-------------|------------------------|-------|--------|-------|
| | | | Rope grade | | | |
| | | | 1960 | | 2160 | |
| mm* | Inch | kg/m | kN | t | kN | t |
| 30 | | 4.152 | 828.0 | 84.4 | 891.6 | 90.9 |
| 32 | 1-1/4 | 4.724 | 942.1 | 96 | 1014.4 | 103.4 |
| 34 | | 5.333 | 1063.5 | 108.4 | 1145.2 | 116.7 |
| 36 | | 5.979 | 1192.3 | 121.5 | 1283.9 | 130.8 |
| 38 | 1-1/2 | 6.662 | 1328.4 | 135.4 | 1430.5 | 145.8 |
| 40 | | 7.381 | 1472.0 | 150 | 1585.1 | 161.5 |
| 42 | | 8.138 | 1622.8 | 165.4 | 1747.5 | 178.1 |
| 44 | | 8.931 | 1781.1 | 181.5 | 1917.9 | 195.4 |
| 46 | | 9.762 | 1946.7 | 198.4 | 2096.3 | 213.6 |
| 48 | | 10.629 | 2119.6 | 216 | 2282.5 | 232.6 |
| 50 | 2 | 11.533 | 2299.9 | 234.4 | 2476.7 | 252.4 |
| 52 | | 12.474 | 2487.6 | 253.5 | 2678.8 | 273 |
| 54 | 2-1/8 | 13.452 | 2682.6 | 273.4 | 2888.8 | 294.4 |
| 56 | | 14.467 | 2885.0 | 294 | 3106.8 | 316.6 |
| 58 | | 15.519 | 3094.8 | 315.4 | 3332.6 | 339.6 |
| 60 | 2-3/8 | 16.608 | 3311.9 | 337.5 | 3566.4 | 363.4 |
| 62 | | 17.733 | 3536.4 | 360.4 | 3808.1 | 388.1 |
| 64 | 2-1/2 | 18.896 | 3768.2 | 384 | 4057.8 | 413.5 |
| 66 | 2-5/8 | 20.095 | 4007.4 | 408.4 | 4315.4 | 439.7 |
| 68 | | 21.332 | 4254.0 | 433.5 | 4580.9 | 466.8 |
| 70 | 2-3/4 | 22.605 | 4507.9 | 459.4 | 4854.3 | 494.7 |

| Nominal rope diameter | | Approx mass | | Minimum breaking force tons ¹ of 2000 lbs | |
|-----------------------|-------|--------------------|--------------------|--|-------|
| | | | | Rope grade | |
| | | | | 1960 | 2160 |
| mm* | Inch | lb/ft ¹ | kg/ft ¹ | 1960 | 2160 |
| 30 | 1-1/4 | 2.79 | 1.27 | 93.1 | 100.2 |
| 32 | | 3.17 | 1.44 | 105.9 | 114 |
| 34 | | 3.58 | 1.63 | 119.5 | 128.7 |
| 36 | 1-1/2 | 4.02 | 1.82 | 134 | 144.3 |
| 38 | | 4.48 | 2.03 | 149.3 | 160.8 |
| 40 | | 4.96 | 2.25 | 165.4 | 178.2 |
| 42 | | 5.47 | 2.48 | 182.4 | 196.4 |
| 44 | | 6 | 2.72 | 200.2 | 215.6 |
| 46 | | 6.56 | 2.98 | 218.8 | 235.6 |
| 48 | 2 | 7.14 | 3.24 | 238.2 | 256.6 |
| 50 | | 7.75 | 3.52 | 258.5 | 278.4 |
| 52 | 2-1/8 | 8.38 | 3.8 | 279.6 | 301.1 |
| 54 | | 9.04 | 4.1 | 301.5 | 324.7 |
| 56 | | 9.72 | 4.41 | 324.3 | 349.2 |
| 58 | 2-3/8 | 10.43 | 4.73 | 347.9 | 374.6 |
| 60 | | 11.16 | 5.06 | 372.3 | 400.9 |
| 62 | 2-1/2 | 11.92 | 5.41 | 397.5 | 428 |
| 64 | 2-5/8 | 12.7 | 5.76 | 423.5 | 456.1 |
| 66 | | 13.5 | 6.13 | 450.4 | 485 |
| 68 | 2-3/4 | 14.33 | 6.5 | 478.1 | 514.9 |
| 70 | | 15.19 | 6.89 | 506.7 | 545.6 |

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*Standard tolerance: +2% to 4%, other tolerances possible upon agreement. Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones! Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range. Subject to modifications, this may change the specifications.

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