

## Steel Wire Rope verotop E

### Product information



**Wire rope construction:** verotop E is a flexible rotation-resistant rope with compacted outer strands.

#### Properties:

- High breaking strength with very strong resistance to drum crushing.
- Very good bending fatigue results..
- Great resistance to crushing and abrasion.

**ISO 4309 Rope Category No:** All Diameters **RCN.23-2.**

**Marking:** According to standard

**Standard:** EN 12385-4

**Note:** verotop E can be used either with or without a swivel.

**Fill factor:** 0.7

**RCN:** 23-2

**Tolerance  $\varnothing$ :** +2% to +4%

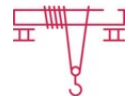
Tower crane



Truck crane



Overhead cranes



| Part Code       | Rope Diameter, mm | Tensile strength N/mm <sup>2</sup> | Steel area mm <sup>2</sup> | Min. Breaking force, kN | Finish     | Rope lay. | Weight kg/100m |
|-----------------|-------------------|------------------------------------|----------------------------|-------------------------|------------|-----------|----------------|
| 104100805070139 | 8                 | 1,960                              | 35                         | 55.2                    | Bright     | sS        | 31             |
| 104100806070139 | 8                 | 1,960                              | 35                         | 55.2                    | Bright     | zZ        | 31             |
| 104100805270139 | 8                 | 1,960                              | 35                         | 55.2                    | Galvanized | sS        | 31             |
| 104100806270139 | 8                 | 1,960                              | 35                         | 55.2                    | Galvanized | zZ        | 31             |

|                 |    |       |    |       |            |    |    |
|-----------------|----|-------|----|-------|------------|----|----|
| 104100805100139 | 8  | 2,160 | 35 | 60.2  | Bright     | sS | 31 |
| 104100806100139 | 8  | 2,160 | 35 | 60.2  | Bright     | zZ | 31 |
| 104100805300139 | 8  | 2,160 | 35 | 60.2  | Galvanized | sS | 31 |
| 104100806300139 | 8  | 2,160 | 35 | 60.2  | Galvanized | zZ | 31 |
| 104100905070139 | 9  | 1,960 | 45 | 69.8  | Bright     | sS | 39 |
| 104100906070139 | 9  | 1,960 | 45 | 69.8  | Bright     | zZ | 39 |
| 104100905270139 | 9  | 1,960 | 45 | 69.8  | Galvanized | sS | 39 |
| 104100906270139 | 9  | 1,960 | 45 | 69.8  | Galvanized | zZ | 39 |
| 104100905100139 | 9  | 2,160 | 45 | 76.2  | Bright     | sS | 39 |
| 104100906100139 | 9  | 2,160 | 45 | 76.2  | Bright     | zZ | 39 |
| 104100905300139 | 9  | 2,160 | 45 | 76.2  | Galvanized | sS | 39 |
| 104100906300139 | 9  | 2,160 | 45 | 76.2  | Galvanized | zZ | 39 |
| 104101005070139 | 10 | 1,960 | 55 | 86.2  | Bright     | sS | 48 |
| 104101006070139 | 10 | 1,960 | 55 | 86.2  | Bright     | zZ | 48 |
| 104101005270139 | 10 | 1,960 | 55 | 86.2  | Galvanized | sS | 48 |
| 104101006270139 | 10 | 1,960 | 55 | 86.2  | Galvanized | zZ | 48 |
| 104101005100139 | 10 | 2,160 | 55 | 94.1  | Bright     | sS | 48 |
| 104101006100139 | 10 | 2,160 | 55 | 94.1  | Bright     | zZ | 48 |
| 104101005300139 | 10 | 2,160 | 55 | 94.1  | Galvanized | sS | 48 |
| 104101006300139 | 10 | 2,160 | 55 | 94.1  | Galvanized | zZ | 48 |
| 104101105070139 | 11 | 1,960 | 67 | 104.3 | Bright     | sS | 58 |
| 104101106070139 | 11 | 1,960 | 67 | 104.3 | Bright     | zZ | 58 |
| 104101105270139 | 11 | 1,960 | 67 | 104.3 | Galvanized | sS | 58 |

|                 |    |       |     |       |            |    |    |
|-----------------|----|-------|-----|-------|------------|----|----|
| 104101106270139 | 11 | 1,960 | 67  | 104.3 | Galvanized | zZ | 58 |
| 104101105100139 | 11 | 2,160 | 67  | 113.9 | Bright     | sS | 58 |
| 104101106100139 | 11 | 2,160 | 67  | 113.9 | Bright     | zZ | 58 |
| 104101105300139 | 11 | 2,160 | 67  | 113.9 | Galvanized | sS | 58 |
| 104101106300139 | 11 | 2,160 | 67  | 113.9 | Galvanized | zZ | 58 |
| 104101205070139 | 12 | 1,960 | 79  | 124.1 | Bright     | sS | 69 |
| 104101206070139 | 12 | 1,960 | 79  | 124.1 | Bright     | zZ | 69 |
| 104101205270139 | 12 | 1,960 | 79  | 124.1 | Galvanized | sS | 69 |
| 104101206270139 | 12 | 1,960 | 79  | 124.1 | Galvanized | zZ | 69 |
| 104101205100139 | 12 | 2,160 | 79  | 135.5 | Bright     | sS | 69 |
| 104101206100139 | 12 | 2,160 | 79  | 135.5 | Bright     | zZ | 69 |
| 104101205300139 | 12 | 2,160 | 79  | 135.5 | Galvanized | sS | 69 |
| 104101206300139 | 12 | 2,160 | 79  | 135.5 | Galvanized | zZ | 69 |
| 104101305070139 | 13 | 1,960 | 93  | 145.7 | Bright     | sS | 81 |
| 104101306070139 | 13 | 1,960 | 93  | 145.7 | Bright     | zZ | 81 |
| 104101305270139 | 13 | 1,960 | 93  | 145.7 | Galvanized | sS | 81 |
| 104101306270139 | 13 | 1,960 | 93  | 145.7 | Galvanized | zZ | 81 |
| 104101305100139 | 13 | 2,160 | 93  | 159.1 | Bright     | sS | 81 |
| 104101306100139 | 13 | 2,160 | 93  | 159.1 | Bright     | zZ | 81 |
| 104101305300139 | 13 | 2,160 | 93  | 159.1 | Galvanized | sS | 81 |
| 104101306300139 | 13 | 2,160 | 93  | 159.1 | Galvanized | zZ | 81 |
| 104101405070139 | 14 | 1,960 | 108 | 169   | Bright     | sS | 94 |
| 104101406070139 | 14 | 1,960 | 108 | 169   | Bright     | zZ | 94 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104101405270139 | 14 | 1,960 | 108 | 169   | Galvanized | sS | 94  |
| 104101406270139 | 14 | 1,960 | 108 | 169   | Galvanized | zZ | 94  |
| 104101405100139 | 14 | 2,160 | 108 | 184.5 | Bright     | sS | 94  |
| 104101406100139 | 14 | 2,160 | 108 | 184.5 | Bright     | zZ | 94  |
| 104101405300139 | 14 | 2,160 | 108 | 184.5 | Galvanized | sS | 94  |
| 104101406300139 | 14 | 2,160 | 108 | 184.5 | Galvanized | zZ | 94  |
| 104101505070139 | 15 | 1,960 | 124 | 194   | Bright     | sS | 107 |
| 104101506070139 | 15 | 1,960 | 124 | 194   | Bright     | zZ | 107 |
| 104101505270139 | 15 | 1,960 | 124 | 194   | Galvanized | sS | 107 |
| 104101506270139 | 15 | 1,960 | 124 | 194   | Galvanized | zZ | 107 |
| 104101505100139 | 15 | 2,160 | 124 | 211.8 | Bright     | sS | 107 |
| 104101506100139 | 15 | 2,160 | 124 | 211.8 | Bright     | zZ | 107 |
| 104101505300139 | 15 | 2,160 | 124 | 211.8 | Galvanized | sS | 107 |
| 104101506300139 | 15 | 2,160 | 124 | 211.8 | Galvanized | zZ | 107 |
| 104101605070139 | 16 | 1,960 | 141 | 220.7 | Bright     | sS | 122 |
| 104101606070139 | 16 | 1,960 | 141 | 220.7 | Bright     | zZ | 122 |
| 104101605270139 | 16 | 1,960 | 141 | 220.7 | Galvanized | sS | 122 |
| 104101606270139 | 16 | 1,960 | 141 | 220.7 | Galvanized | zZ | 122 |
| 104101605100139 | 16 | 2,160 | 141 | 241   | Bright     | sS | 122 |
| 104101606100139 | 16 | 2,160 | 141 | 241   | Bright     | zZ | 122 |
| 104101605300139 | 16 | 2,160 | 141 | 241   | Galvanized | sS | 122 |
| 104101606300139 | 16 | 2,160 | 141 | 241   | Galvanized | zZ | 122 |
| 104101805070139 | 18 | 1,960 | 178 | 279.3 | Bright     | sS | 155 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104101806070139 | 18 | 1,960 | 178 | 279.3 | Bright     | zZ | 155 |
| 104101805270139 | 18 | 1,960 | 178 | 279.3 | Galvanized | sS | 155 |
| 104101806270139 | 18 | 1,960 | 178 | 279.3 | Galvanized | zZ | 155 |
| 104101805100139 | 18 | 2,160 | 178 | 305   | Bright     | sS | 155 |
| 104101806100139 | 18 | 2,160 | 178 | 305   | Bright     | zZ | 155 |
| 104101805300139 | 18 | 2,160 | 178 | 305   | Galvanized | sS | 155 |
| 104101806300139 | 18 | 2,160 | 178 | 305   | Galvanized | zZ | 155 |
| 104101905070139 | 19 | 1,960 | 198 | 311.2 | Bright     | sS | 172 |
| 104101906070139 | 19 | 1,960 | 198 | 311.2 | Bright     | zZ | 172 |
| 104101905270139 | 19 | 1,960 | 198 | 311.2 | Galvanized | sS | 172 |
| 104101906270139 | 19 | 1,960 | 198 | 311.2 | Galvanized | zZ | 172 |
| 104101905100139 | 19 | 2,160 | 198 | 339.8 | Bright     | sS | 172 |
| 104101906100139 | 19 | 2,160 | 198 | 339.8 | Bright     | zZ | 172 |
| 104101905300139 | 19 | 2,160 | 198 | 339.8 | Galvanized | sS | 172 |
| 104101906300139 | 19 | 2,160 | 198 | 339.8 | Galvanized | zZ | 172 |
| 104102005070139 | 20 | 1,960 | 220 | 344.8 | Bright     | sS | 191 |
| 104102006070139 | 20 | 1,960 | 220 | 344.8 | Bright     | zZ | 191 |
| 104102005270139 | 20 | 1,960 | 220 | 344.8 | Galvanized | sS | 191 |
| 104102006270139 | 20 | 1,960 | 220 | 344.8 | Galvanized | zZ | 191 |
| 104102005100139 | 20 | 2,160 | 220 | 376.7 | Bright     | sS | 191 |
| 104102006100139 | 20 | 2,160 | 220 | 376.7 | Bright     | zZ | 191 |
| 104102005300139 | 20 | 2,160 | 220 | 376.7 | Galvanized | sS | 191 |
| 104102006300139 | 20 | 2,160 | 220 | 376.7 | Galvanized | zZ | 191 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104102205070139 | 22 | 1,960 | 266 | 417.2 | Bright     | sS | 231 |
| 104102206070139 | 22 | 1,960 | 266 | 417.2 | Bright     | zZ | 231 |
| 104102205270139 | 22 | 1,960 | 266 | 417.2 | Galvanized | sS | 231 |
| 104102206270139 | 22 | 1,960 | 266 | 417.2 | Galvanized | zZ | 231 |
| 104102205100139 | 22 | 2,160 | 266 | 455.6 | Bright     | sS | 231 |
| 104102206100139 | 22 | 2,160 | 266 | 455.6 | Bright     | zZ | 231 |
| 104102205300139 | 22 | 2,160 | 266 | 455.6 | Galvanized | sS | 231 |
| 104102206300139 | 22 | 2,160 | 266 | 455.6 | Galvanized | zZ | 231 |
| 104102305070139 | 23 | 1,960 | 291 | 456   | Bright     | sS | 252 |
| 104102306070139 | 23 | 1,960 | 291 | 456   | Bright     | zZ | 252 |
| 104102305270139 | 23 | 1,960 | 291 | 456   | Galvanized | sS | 252 |
| 104102306270139 | 23 | 1,960 | 291 | 456   | Galvanized | zZ | 252 |
| 104102305100139 | 23 | 2,160 | 291 | 497.9 | Bright     | sS | 252 |
| 104102306100139 | 23 | 2,160 | 291 | 497.9 | Bright     | zZ | 252 |
| 104102305300139 | 23 | 2,160 | 291 | 497.9 | Galvanized | sS | 252 |
| 104102306300139 | 23 | 2,160 | 291 | 497.9 | Galvanized | zZ | 252 |
| 104102405070139 | 24 | 1,960 | 317 | 496.5 | Bright     | sS | 275 |
| 104102406070139 | 24 | 1,960 | 317 | 496.5 | Bright     | zZ | 275 |
| 104102405270139 | 24 | 1,960 | 317 | 496.5 | Galvanized | sS | 275 |
| 104102406270139 | 24 | 1,960 | 317 | 496.5 | Galvanized | zZ | 275 |
| 104102405100139 | 24 | 2,160 | 317 | 542.1 | Bright     | sS | 275 |
| 104102406100139 | 24 | 2,160 | 317 | 542.1 | Bright     | zZ | 275 |
| 104102405300139 | 24 | 2,160 | 317 | 542.1 | Galvanized | sS | 275 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104102406300139 | 24 | 2,160 | 317 | 542.1 | Galvanized | zZ | 275 |
| 104102505070139 | 25 | 1,960 | 344 | 538.8 | Bright     | sS | 298 |
| 104102506070139 | 25 | 1,960 | 344 | 538.8 | Bright     | zZ | 298 |
| 104102505270139 | 25 | 1,960 | 344 | 538.8 | Galvanized | sS | 298 |
| 104102506270139 | 25 | 1,960 | 344 | 538.8 | Galvanized | zZ | 298 |
| 104102505100139 | 25 | 2,160 | 344 | 588.3 | Bright     | sS | 298 |
| 104102506100139 | 25 | 2,160 | 344 | 588.3 | Bright     | zZ | 298 |
| 104102505300139 | 25 | 2,160 | 344 | 588.3 | Galvanized | sS | 298 |
| 104102506300139 | 25 | 2,160 | 344 | 588.3 | Galvanized | zZ | 298 |
| 104102605070139 | 26 | 1,960 | 372 | 582.7 | Bright     | sS | 323 |
| 104102606070139 | 26 | 1,960 | 372 | 582.7 | Bright     | zZ | 323 |
| 104102605270139 | 26 | 1,960 | 372 | 582.7 | Galvanized | sS | 323 |
| 104102606270139 | 26 | 1,960 | 372 | 582.7 | Galvanized | zZ | 323 |
| 104102605100139 | 26 | 2,160 | 372 | 636.3 | Bright     | sS | 323 |
| 104102606100139 | 26 | 2,160 | 372 | 636.3 | Bright     | zZ | 323 |
| 104102605300139 | 26 | 2,160 | 372 | 636.3 | Galvanized | sS | 323 |
| 104102606300139 | 26 | 2,160 | 372 | 636.3 | Galvanized | zZ | 323 |
| 104102705070139 | 27 | 1,960 | 401 | 628.4 | Bright     | sS | 348 |
| 104102706070139 | 27 | 1,960 | 401 | 628.4 | Bright     | zZ | 348 |
| 104102705270139 | 27 | 1,960 | 401 | 628.4 | Galvanized | sS | 348 |
| 104102706270139 | 27 | 1,960 | 401 | 628.4 | Galvanized | zZ | 348 |
| 104102705100139 | 27 | 2,160 | 401 | 686.2 | Bright     | sS | 348 |
| 104102706100139 | 27 | 2,160 | 401 | 686.2 | Bright     | zZ | 348 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104102705300139 | 27 | 2,160 | 401 | 686.2 | Galvanized | sS | 348 |
| 104102706300139 | 27 | 2,160 | 401 | 686.2 | Galvanized | zZ | 348 |
| 104102805070139 | 28 | 1,960 | 431 | 675.8 | Bright     | sS | 374 |
| 104102806070139 | 28 | 1,960 | 431 | 675.8 | Bright     | zZ | 374 |
| 104102805270139 | 28 | 1,960 | 431 | 675.8 | Galvanized | sS | 374 |
| 104102806270139 | 28 | 1,960 | 431 | 675.8 | Galvanized | zZ | 374 |
| 104102805100139 | 28 | 2,160 | 431 | 737.9 | Bright     | sS | 374 |
| 104102806100139 | 28 | 2,160 | 431 | 737.9 | Bright     | zZ | 374 |
| 104102805300139 | 28 | 2,160 | 431 | 737.9 | Galvanized | sS | 374 |
| 104102806300139 | 28 | 2,160 | 431 | 737.9 | Galvanized | zZ | 374 |
| 104102905070139 | 29 | 1,960 | 462 | 725   | Bright     | sS | 401 |
| 104102906070139 | 29 | 1,960 | 462 | 725   | Bright     | zZ | 401 |
| 104102905270139 | 29 | 1,960 | 462 | 725   | Galvanized | sS | 401 |
| 104102906270139 | 29 | 1,960 | 462 | 725   | Galvanized | zZ | 401 |
| 104102905100139 | 29 | 2,160 | 462 | 791.6 | Bright     | sS | 401 |
| 104102906100139 | 29 | 2,160 | 462 | 791.6 | Bright     | zZ | 401 |
| 104102905300139 | 29 | 2,160 | 462 | 791.6 | Galvanized | sS | 401 |
| 104102906300139 | 29 | 2,160 | 462 | 791.6 | Galvanized | zZ | 401 |
| 104103005070139 | 30 | 1,960 | 495 | 775.8 | Bright     | sS | 430 |
| 104103006070139 | 30 | 1,960 | 495 | 775.8 | Bright     | zZ | 430 |
| 104103005270139 | 30 | 1,960 | 495 | 775.8 | Galvanized | sS | 430 |
| 104103006270139 | 30 | 1,960 | 495 | 775.8 | Galvanized | zZ | 430 |
| 104103005100139 | 30 | 2,160 | 495 | 847.1 | Bright     | sS | 430 |



|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104103006100139 | 30 | 2,160 | 495 | 847.1 | Bright     | zZ | 430 |
| 104103005300139 | 30 | 2,160 | 495 | 847.1 | Galvanized | sS | 430 |
| 104103006300139 | 30 | 2,160 | 495 | 847.1 | Galvanized | zZ | 430 |
| 104103205070139 | 32 | 1,960 | 563 | 882.7 | Bright     | sS | 489 |
| 104103206070139 | 32 | 1,960 | 563 | 882.7 | Bright     | zZ | 489 |
| 104103205270139 | 32 | 1,960 | 563 | 882.7 | Galvanized | sS | 489 |
| 104103206270139 | 32 | 1,960 | 563 | 882.7 | Galvanized | zZ | 489 |
| 104103205100139 | 32 | 2,160 | 563 | 963.8 | Bright     | sS | 489 |
| 104103206100139 | 32 | 2,160 | 563 | 963.8 | Bright     | zZ | 489 |
| 104103205300139 | 32 | 2,160 | 563 | 963.8 | Galvanized | sS | 489 |
| 104103206300139 | 32 | 2,160 | 563 | 963.8 | Galvanized | zZ | 489 |
| 104103405070139 | 34 | 1,960 | 636 | 983.8 | Bright     | sS | 552 |
| 104103406070139 | 34 | 1,960 | 636 | 983.8 | Bright     | zZ | 552 |
| 104103405270139 | 34 | 1,960 | 636 | 983.8 | Galvanized | sS | 552 |
| 104103406270139 | 34 | 1,960 | 636 | 983.8 | Galvanized | zZ | 552 |
| 104103405100139 | 34 | 2,160 | 636 | 1,077 | Bright     | sS | 552 |
| 104103406100139 | 34 | 2,160 | 636 | 1,077 | Bright     | zZ | 552 |
| 104103405300139 | 34 | 2,160 | 636 | 1,077 | Galvanized | sS | 552 |
| 104103406300139 | 34 | 2,160 | 636 | 1,077 | Galvanized | zZ | 552 |
| 104103505070139 | 35 | 1,960 | 673 | 1,043 | Bright     | sS | 585 |
| 104103506070139 | 35 | 1,960 | 673 | 1,043 | Bright     | zZ | 585 |
| 104103505270139 | 35 | 1,960 | 673 | 1,043 | Galvanized | sS | 585 |
| 104103506270139 | 35 | 1,960 | 673 | 1,043 | Galvanized | zZ | 585 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104103505100139 | 35 | 2,160 | 673 | 1,142 | Bright     | sS | 585 |
| 104103506100139 | 35 | 2,160 | 673 | 1,142 | Bright     | zZ | 585 |
| 104103505300139 | 35 | 2,160 | 673 | 1,142 | Galvanized | sS | 585 |
| 104103506300139 | 35 | 2,160 | 673 | 1,142 | Galvanized | zZ | 585 |
| 104103605070139 | 36 | 1,960 | 713 | 1,103 | Bright     | sS | 619 |
| 104103606070139 | 36 | 1,960 | 713 | 1,103 | Bright     | zZ | 619 |
| 104103605270139 | 36 | 1,960 | 713 | 1,103 | Galvanized | sS | 619 |
| 104103606270139 | 36 | 1,960 | 713 | 1,103 | Galvanized | zZ | 619 |
| 104103605100139 | 36 | 2,160 | 713 | 1,208 | Bright     | sS | 619 |
| 104103606100139 | 36 | 2,160 | 713 | 1,208 | Bright     | zZ | 619 |
| 104103605300139 | 36 | 2,160 | 713 | 1,208 | Galvanized | sS | 619 |
| 104103606300139 | 36 | 2,160 | 713 | 1,208 | Galvanized | zZ | 619 |
| 104103805070139 | 38 | 1,960 | 794 | 1,229 | Bright     | sS | 689 |
| 104103806070139 | 38 | 1,960 | 794 | 1,229 | Bright     | zZ | 689 |
| 104103805270139 | 38 | 1,960 | 794 | 1,229 | Galvanized | sS | 689 |
| 104103806270139 | 38 | 1,960 | 794 | 1,229 | Galvanized | zZ | 689 |
| 104103805100139 | 38 | 2,160 | 794 | 1,346 | Bright     | sS | 689 |
| 104103806100139 | 38 | 2,160 | 794 | 1,346 | Bright     | zZ | 689 |
| 104103805300139 | 38 | 2,160 | 794 | 1,346 | Galvanized | sS | 689 |
| 104103806300139 | 38 | 2,160 | 794 | 1,346 | Galvanized | zZ | 689 |
| 104104005070139 | 40 | 1,960 | 880 | 1,362 | Bright     | sS | 764 |
| 104104006070139 | 40 | 1,960 | 880 | 1,362 | Bright     | zZ | 764 |
| 104104005270139 | 40 | 1,960 | 880 | 1,362 | Galvanized | sS | 764 |

|                 |    |       |     |       |            |    |     |
|-----------------|----|-------|-----|-------|------------|----|-----|
| 104104006270139 | 40 | 1,960 | 880 | 1,362 | Galvanized | zZ | 764 |
| 104104005100139 | 40 | 2,160 | 880 | 1,491 | Bright     | sS | 764 |
| 104104006100139 | 40 | 2,160 | 880 | 1,491 | Bright     | zZ | 764 |
| 104104005300139 | 40 | 2,160 | 880 | 1,491 | Galvanized | sS | 764 |
| 104104006300139 | 40 | 2,160 | 880 | 1,491 | Galvanized | zZ | 764 |

## Technical data