

# Evolution Q9XT

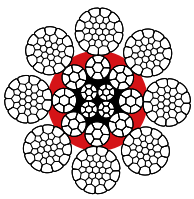
It is especially on cranes used to move bulk goods where the Evolution Q9XT high-performance steel wire rope developed by Teufelberger-Redaelli unleashes its full performance potential. Its innovative, evolutionary structure with 4 core strands makes it extremely durable and long-lived.

## Specifications

- Ordinary lay, right or left-handed
- 20-54 mm: 8xK31WS – EPIWRC, RCN 11, n=248
- Filling factor f=0.68
- Use without swivel
- ✓ Radial elastic core
- ✓ SUPERFILL®
- ✓ PLASTFILL®

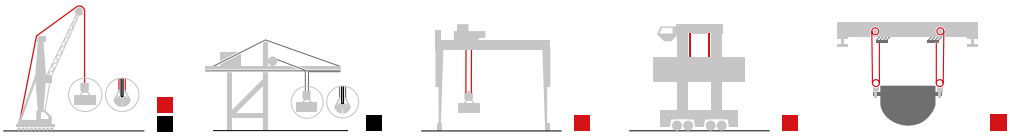
## Segments

- Ports industry
- Industrial cranes



Evolution Q9XT

## Applications



Mobile harbor crane | Ship-to-shore crane & ship unloader | ASC, RTG, RMG | Straddle carrier | Ladle and foundry crane

■ Hoist rope ■ Closing rope

## Advantages

- ✓ Trouble-free operation: Excellent absorption of shock loads due to eliminated king strand
- ✓ Extremely long lifetime: The high RCN number allows a large number of outer wire breaks
- ✓ Improved visibility of point of discard from the outside: Four center strands reduce the risk of damaging the rope core
- ✓ Long service life due to wear-optimized design and core-protecting PLASTFILL® insert

## Technical specifications

| Construction | Nominal Ø | | Rope length mass | | MBF at rope grade | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1770 | | 1960 | |
| | mm | inch | kg/m | lbs/ft | kN | lbf | kN | lbf |
| 8xK31WS-EPIWRC(K) RCN 11, n=248 | 20 | | 1.82 | 1.22 | 311 | 69,916 | 345 | 77,559 |
| | 21 | | 2.02 | 1.36 | 343 | 77,109 | 380 | 85,427 |
| | 22 | | 2.22 | 1.49 | 377 | 84,753 | 417 | 93,745 |
| | 22.23 | 7/8 | 2.26 | 1.52 | 385 | 86,551 | 426 | 95,769 |
| | 23 | | 2.42 | 1.63 | 412 | 92,621 | 456 | 102,513 |
| | 24 | | 2.64 | 1.77 | 448 | 100,714 | 497 | 111,730 |
| | 25 | | 2.86 | 1.92 | 487 | 109,482 | 539 | 121,172 |
| | 25.4 | 1 | 2.96 | 1.99 | 502 | 112,854 | 556 | 124,994 |
| | 26 | | 3.09 | 2.08 | 526 | 118,250 | 583 | 131,064 |
| | 27 | | 3.34 | 2.24 | 568 | 127,691 | 628 | 141,180 |
| | 28 | | 3.61 | 2.42 | 610 | 137,133 | 676 | 151,971 |
| | 28.58 | 1 1/8 | 3.74 | 2.52 | 636 | 142,978 | 704 | 158,265 |
| | 29 | | 3.85 | 2.59 | 655 | 147,250 | 725 | 162,986 |
| | 30 | | 4.12 | 2.77 | 701 | 157,591 | 776 | 174,452 |
| | 31.75 | 1 1/4 | 4.62 | 3.10 | 785 | 176,475 | 869 | 195,359 |
| | 32 | | 4.69 | 3.15 | 797 | 179,173 | 883 | 198,506 |
| | 34 | | 5.30 | 3.56 | 900 | 202,328 | 997 | 224,135 |
| | 35 | | 5.61 | 3.77 | 954 | 214,468 | 1,056 | 237,398 |
| | 36 | | 5.94 | 3.99 | 1,009 | 226,832 | 1,117 | 251,112 |
| | 38 | | 6.62 | 4.45 | 1,124 | 252,685 | 1,245 | 279,887 |
| | 40 | | 7.33 | 4.93 | 1,246 | 280,112 | 1,379 | 310,012 |
| | 41 | | 7.70 | 5.17 | 1,309 | 294,275 | 1,449 | 325,748 |
| | 42 | | 8.10 | 5.44 | 1,373 | 308,663 | 1,521 | 341,934 |
| | 44 | | 8.88 | 5.97 | 1,507 | 338,787 | 1,669 | 375,206 |
| | 44.45 | 1 3/4 | 9.05 | 6.08 | 1,538 | 345,756 | 1,703 | 382,850 |
| | 46 | | 9.69 | 6.51 | 1,647 | 370,260 | 1,824 | 410,052 |
| | 48 | | 10.55 | 7.09 | 1,794 | 403,307 | 1,986 | 446,471 |
| | 50 | | 11.45 | 7.70 | 1,946 | 437,478 | 2,155 | 484,463 |
| | 50.8 | 2 | 11.82 | 7.94 | 2,009 | 451,641 | 2,225 | 500,200 |
| | 52 | | 12.39 | 8.32 | 2,105 | 473,223 | 2,331 | 524,030 |
| | 54 | 2 1/8 | 13.39 | 9.00 | 2,270 | 510,316 | 2,514 | 565,170 |

Standard tolerance: +2 % to +4 %, other tolerance ranges and rope diameters are available upon request.
The values are provided for guidance only. The metric figures shall prevail. The rope cross-section depicts a typical design and may vary within the product line.
Subject to further developments which may lead to changes in technical specifications. Subject to changes and errors.

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