

## Ropetex PERFORM 35C

### General information

Ropetex PERFORM 35C is a flexible, high-quality rotation resistant steel wire rope. The strands are compacted, giving it a high breaking load and making it wear resistant. Ropetex PERFORM 35C is very well suited for multi-layer spooling.

### Key product benefits

- Rotation resistant steel wire rope
- Excellent lifetime
- Suitable for multi-layer drum spooling
- Very resistant against crushing
- Very wear resistant
- High breaking load (MBL)

### Applications

- Hoist rope
- Auxiliary hoist rope

### Suitable for following cranes



Tower Crane



Truck Crane



Mobile Crane



Knuckle Boom Crane



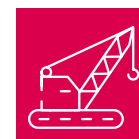
Self-erecting Crane



Luffing Crane



Piling Crane



Crawler Crane

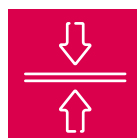


Offshore Crane



Deck Crane

### Product properties



Compacted



Right Hand Lang's Lay



Left Hand Lang's Lay



Galvanized



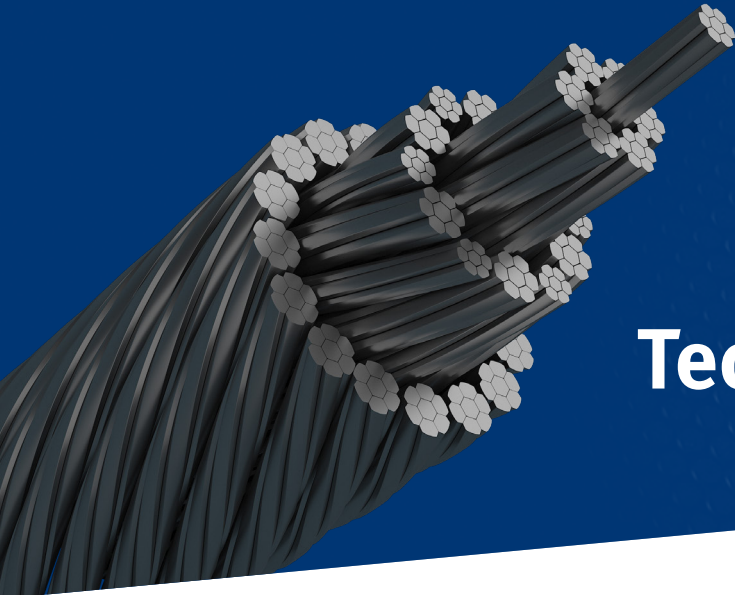
Ungalvanized



Rotation Resistant



Can be used with swivel



# Technical Specifications

## Details

**Standard:** EN12385

**Diameter tolerance:** +2,0% to +4,0%

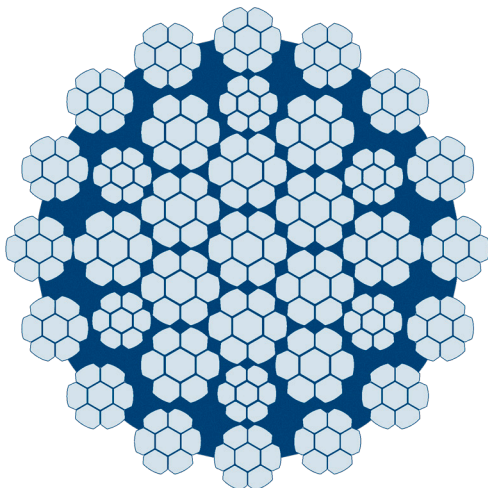
**Fill factor (average):** 0.723

**Elastic modulus:** 116.000 N/mm<sup>2</sup>  
(+/- 5.000 N/mm<sup>2</sup>)

**Torque factor:** 0.007 at 20% of MBL

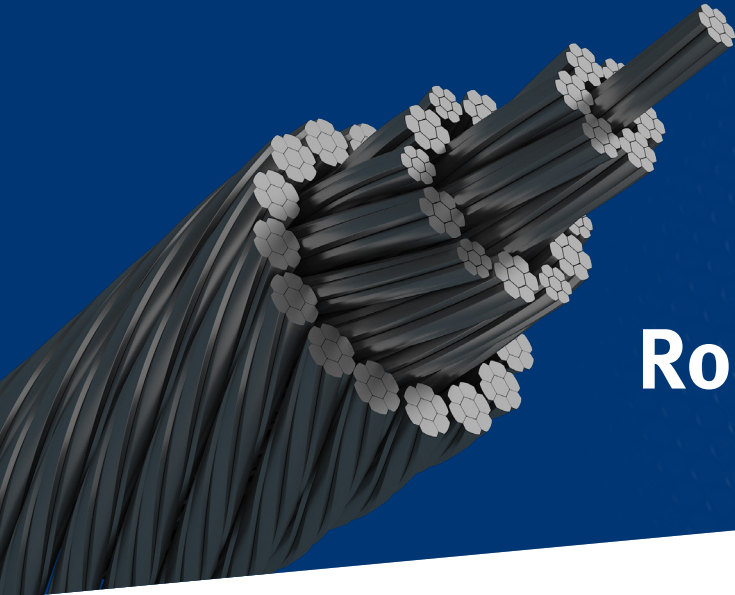
**Temperature range:** -40°C up to +60°C  
with standard lubricant.

Wider range on request



## Product Table

| Nominal Diameter<br>(mm) | Cross Sectional Area<br>(mm) | Minimal Breaking Load (kN) |       |                        |       | Approx. Weight<br>kg/100m |
|--------------------------|------------------------------|----------------------------|-------|------------------------|-------|---------------------------|
|                          |                              | 1960 N/mm <sup>2</sup>     |       | 2160 N/mm <sup>2</sup> |       |                           |
|                          |                              | kN                         | t     | kN                     | t     |                           |
| 8                        | 36,4                         | 60,9                       | 6,2   | 63,1                   | 6,4   | 32                        |
| 9                        | 46,1                         | 76,9                       | 7,8   | 79,6                   | 8,1   | 40                        |
| 10                       | 56,9                         | 94,7                       | 9,7   | 98                     | 10,0  | 50                        |
| 11                       | 68,8                         | 114                        | 11,6  | 118,8                  | 12,1  | 60                        |
| 12                       | 81,9                         | 135,4                      | 13,8  | 140,6                  | 14,3  | 72                        |
| 13                       | 96,2                         | 159,8                      | 16,3  | 166,3                  | 17,0  | 84                        |
| 14                       | 111,5                        | 185,3                      | 18,9  | 193,1                  | 19,7  | 98                        |
| 15                       | 128,0                        | 211,7                      | 21,6  | 220,8                  | 22,5  | 112                       |
| 16                       | 145,7                        | 242,3                      | 24,7  | 251,5                  | 25,6  | 127                       |
| 17                       | 164,0                        | 273,5                      | 27,9  | 283,9                  | 28,9  | 143                       |
| 18                       | 184,3                        | 306,4                      | 31,2  | 318,8                  | 32,5  | 158                       |
| 19                       | 205,4                        | 341                        | 34,8  | 354,4                  | 36,1  | 179                       |
| 20                       | 227,6                        | 377,7                      | 38,5  | 393                    | 40,1  | 198                       |
| 21                       | 250,9                        | 417,4                      | 42,6  | 433,6                  | 44,2  | 218                       |
| 22                       | 275,4                        | 458,1                      | 46,7  | 475,2                  | 48,5  | 240                       |
| 23                       | 301,0                        | 499,8                      | 51,0  | 520,7                  | 53,1  | 262                       |
| 24                       | 327,7                        | 544,6                      | 55,5  | 566,3                  | 57,7  | 285                       |
| 25                       | 355,6                        | 590,4                      | 60,2  | 615,8                  | 62,8  | 310                       |
| 26                       | 384,6                        | 639,3                      | 65,2  | 665,3                  | 67,8  | 334                       |
| 28                       | 446,1                        | 741,1                      | 75,6  | 772,2                  | 78,7  | 388                       |
| 30                       | 512,1                        | 851                        | 86,8  | 886,1                  | 90,4  | 445                       |
| 32                       | 582,6                        | 967,1                      | 98,6  | 1007,8                 | 102,8 | 506                       |
| 34                       | 657,7                        | 1094,4                     | 111,6 | 1138,5                 | 116,1 | 572                       |
| 36                       | 737,4                        | 1225,7                     | 125,0 | 1276,1                 | 130,1 | 641                       |
| 38                       | 821,6                        | 1366,2                     | 139,3 | 1421,6                 | 145,0 | 714                       |



# Rope Category Numbers

## Discard according to ISO 4309:2017

| Ropetex High Performance wire rope | Nominal diameter in mm | Number of load-bearing wire in outer strands <sup>a</sup> | Rope Category Number (RCN) acc. ISO 4309 | Number of visible broken wires <sup>b</sup> acc. ISO 4309   |                     |  |                     |
|------------------------------------|------------------------|---|--|---|---------------------|--|---------------------|
|                                    |                        |   |  | Sections of rope working in steel sheaves and/or spooling on a single-layer drum (wire breaks randomly distributed) |                     | Sections of rope spooling on a multi-layer drum <sup>c</sup> |                     |
|                                    |                        |   |  | over a length of  |                     | over a length of   |                     |
|                                    |                        |   |  | 6 x d <sup>d</sup>  | 30 x d <sup>d</sup> | 6 x d <sup>d</sup>   | 30 x d <sup>d</sup> |
| Perform 35C                        | 8-38                   | 112   | 23-2                                     | 3   | 5                   | 5  | 10                  |

<sup>a</sup> For the purposes of this document, filler wires are not regarded as load-bearing wires and are not included in the values of n.

<sup>b</sup> A broken wire has two ends (counted as one wire).

<sup>c</sup> The values apply to deterioration that occurs at the crossover zones and interference between wraps due to fleet angle effects (not to the sections of rope that only work in sheaves and do not spool on the drum).

<sup>d</sup> d is the nominal diameter of rope.