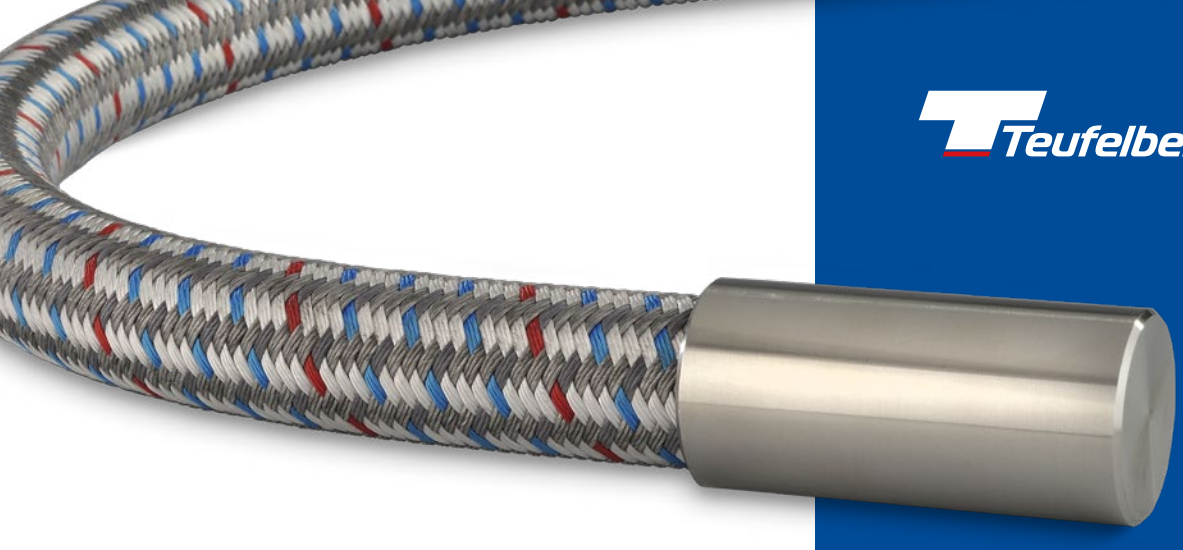


Teufelberger · Redaelli

soLITE®

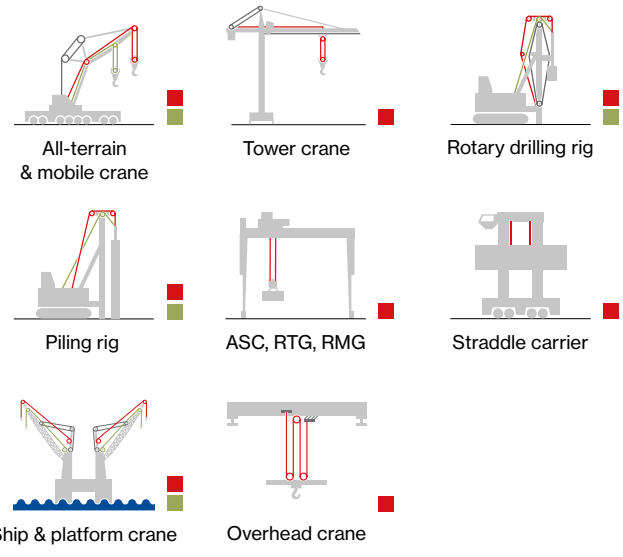
Patented structure

This rope has a patented core with a low-rotation 3-layer construction modeled on steel wire ropes. It is made up of high-strength fibers whose breaking force compares to that of a steel wire rope of comparable diameter. This core is then provided with a high-strength cover ensuring a safe and readily visible point of discard. The result is a combination of the advantages of a high-performance steel wire rope and the advantages of high-strength fibers.

Segments

- Building & construction industry
- Ports industry
- Industrial cranes
- Offshore industry

Applications



■ Hoist rope ■ Auxiliary hoist rope

Advantages

- ✓ soLITE® offers you a breaking strength per diameter that almost matches that of your current steel wire rope, while weighing only about 20 % of your steel wire rope This has a 1:1 impact on the payload
- ✓ The patented 3-layer core has been proven to last up to 10 times longer than a conventional steel wire rope under maximum payload on multi-layer winches
- ✓ Smooth, vibration-free operation
- ✓ No wear of crane components such as sheaves and drums
- ✓ Environmentally friendly, no lubricants
- ✓ Easy detection of point of discard
- ✓ Easy to handle & TÜV-certified
- ✓ 14-year lifetime
- ✓ No grease, no oil, no gloves
- ✓ Smooth travel, no shaking of boom
- ✓ TÜV-certified

Technical specifications

Nominal diameter	Minimum break load	Maximum work load	Weight	Rope modulus (longitudinal stiffness)	Diameter tolerance
mm	kN	kN	kg/m	N/mm²	%
20	222	55	0.31	70,000	2.5 %
22	294	73	0.39	70,000	2.5 %
25	422	110	0.52	70,000	2.4 %

Diameter tolerance 2.5 % matching the winch pitch. other rope diameters are available upon request.
The values are provided for guidance only. The metric figures shall prevail. Subject to further developments which may lead to changes in technical specifications. Subject to changes and errors.

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