



# PROTECT ROPES

Steel wire ropes in a new anti-corrosive guise

# TEUFELBERGER VERSUS CORROSION

The undisputed winner, **Protect series!**

Salt water, wind, and weather put steel wire ropes used in the offshore segment to the ultimate test. This makes their corrosion resistance so crucial in such environments. Focusing on developing solutions to these needs, TEUFELBERGER launches its new **Protect series**, an extremely corrosion resistant line of steel wire ropes. Of course, the new ropes also offer the high level of excellence of previous wire rope models in terms of minimum breaking force, dimensional stability under lateral pressures, spooling behavior, torsional behavior, etc.

## Performance

- Significantly higher resistance to corrosion than conventionally galvanized wires
- Excellent core lubrication also for active heave compensation (AHC)
- Considerably reduced wear in the rope due to lower friction
- Increased safety due to better detectability of discard conditions
- All factors combined result in a longer service life of the steel wire rope

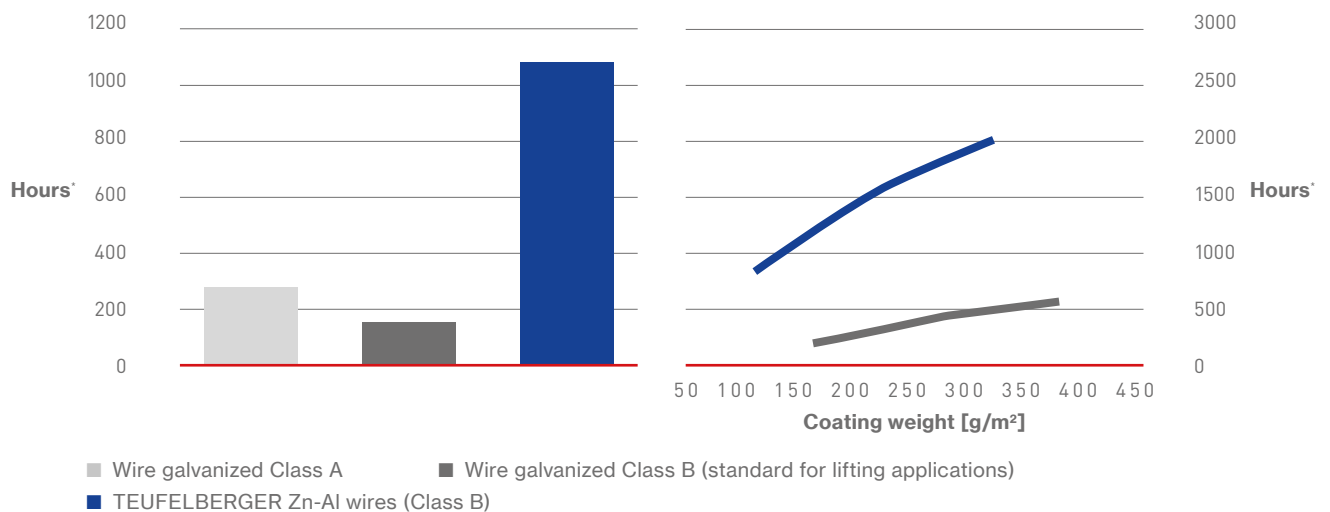
## Technology

- Unique coating of individual steel wires with a zinc-aluminium (Zn-Al) alloy
- PLASTIFILL®: The steel core lubricated with special grease is overmolded with a compact, water repellent plastic cover
- Pro Active Core Lubrication: temperature resistant special grease with significant improved lubricating properties

## Zn-Al Coating

Coating capabilities during salt spray tests according to ASTM B117 / DIN50021 / ISO9227

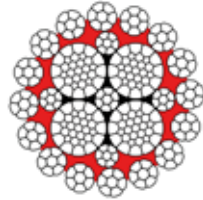
Corrosion resistance of zinc and TEUFELBERGER zinc-aluminium (Zn-Al) wires in salt spray environment - average value out of a variety of measurements. Coating capabilities during salt spray tests according to ASTM B117 / DIN50021 / ISO9227



\*Hours of salt spray test until the appearance of 5% dark brown rust (DBR).

# PROTECT SERIES

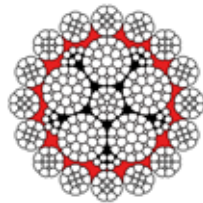
Evolution TK16 and Evolution TK18 are the already known and established nonrotating high quality steel wire ropes from TEUFELBERGER. These special rope types for the offshore industry will be the first to feature the additional, exceptional characteristics of **Protect**.



## Evolution TK16

Nominal Ø		Weight kg/m	Minimum breaking force at rope grade kN		
mm	inch		1,770 N/mm <sup>2</sup>	1,960 N/mm <sup>2</sup>	2,160 N/mm <sup>2</sup>
28		4.05	655	725	780
29		4.27	701	777	835
30		4.62	749	830	893
32	1¼	5.24	853	944	1,035
34		5.90	958	1,061	1,141
36		6.65	1,072	1,187	1,277
38	1½	7.35	1,237	1,369	1,472
40		8.13	1,317	1,458	1,568
42		8.97	1,452	1,608	1,729

Other diameters are available on request.



## Evolution TK18

Nominal Ø		Weight kg/m	Minimum breaking force at rope grade kN	
mm	inch		1,770 N/mm <sup>2</sup>	1,960 N/mm <sup>2</sup>
44.45	1¾	9.48	1,641	1,817
46		10.24	1,758	1,960
48		11.12	1,914	2,119
50	2	12.40	2,076	2,299
52		13.61	2,246	2,487
54	2⅙	14.48	2,422	2,682
56		15.28	2,605	2,884
58		16.80	2,794	3,094
60	2⅔	17.92	2,990	3,311
62		18.90	3,193	3,536
64	2½	20.43	3,402	3,767
66	2⅝	21.14	3,618	4,006
68		22.44	3,841	4,253
70	2¾	23.91	4,070	4,507
72		25.40	4,306	4,768
74		26.90	4,548	5,037
76	3	28.07	4,798	5,313
78		29.80	5,053	5,596
80		31.40	5,316	5,887

Other diameters are available on request.

Other constructions are available on request.

 **WARNING**

Using these products may prove hazardous. Therefore, never use our products for purposes other than those they were designed for. Customers must ensure that all persons using these products are familiar with their correct use and the related necessary safety precautions. Please bear in mind that any of these products may inflict harm when used incorrectly or subjected to excessive loads.

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**TEUFELBERGER Seil Ges.m.b.H**

Böhmerwaldstraße 20  
4600 Wels, Austria  
Telephone: +43 (0) 7242 615-0  
Fax: +43 (0) 7242 60 501  
wirerope@teufelberger.com

[www.teufelberger.com](http://www.teufelberger.com)