CONSTRUCTION

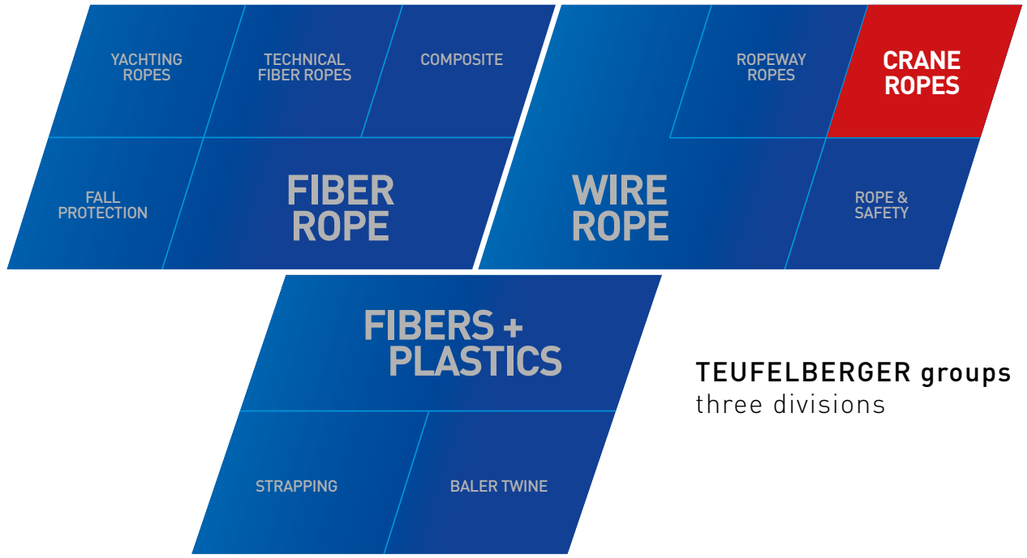
SPECIAL STEEL WIRE ROPES

Teufelberger®

TOGETHER IN MOTION

TEUFELBERGER SEIL GES.M.B.H.

220 YEARS OF SUCCESS



TEUFELBERGER groups
three divisions

1790	1901	1931	1961	1965	1986	1998	2001	2007	2012
Establishment of a ropery in Wimsbach	Martin Teufelberger relocates his hemp ropery to Wels, Vogelweiderstrasse	Production of the first steel rope	Shift from the use of natural to synthetic fibers	Production of the first plastic strapping	A second site in Wels, Boehmerwaldstrasse, goes on line	Opening of the rope factory in Veseli, Czech Republic. Sewing up of ropes and harnesses	Acquisition of the St. Aegyd factory Production of ropeway ropes of steel for the whole world	Acquisition of New England Ropes in Fall River, USA. Production of fiber ropes	Start of the Composite Technology Center

5 LOCATIONS

TEUFELBERGER Ges.m.b.H.
Wels headquarters, Austria
strapping, baler twines, fiber ropes

TEUFELBERGER Seil Ges.m.b.H.
Wels Wire Rope, Austria
wire ropes

TEUFELBERGER Seil Ges.m.b.H.
St. Aegyd Wire Rope, Austria
wire ropes

JIHOTEX spol s.r.o.
Veseli, Czech Republic
fiber ropes

New England Ropes Corp.
Fall River, USA
fiber ropes

CONTENTS

⚠ 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.

TEUFELBERGER SEIL GES.M.B.H.

WE OFFER MORE ...

In manufacturing, research & development, and marketing & sales, we at TEUFELBERGER Seil Ges.m.b.H. focus exclusively on high quality special purpose steel wire ropes. Breakthrough technologies and top quality products are the basis of our success.

TEUFELBERGER SERVICE

Expert advice
TEUFELBERGER's network of experts provides competent support close to you. This allows us to find the best possible solution for your needs.
24-hour hotline: +43 (0) 7242-615-388

Customized solutions and products
Joint development efforts with crane and equipment manufacturers and close co-operation with our suppliers ensure that our products satisfy all your requirements. Working together with you, the team from TEUFELBERGER will elaborate the best solution.

QUALITY & EXPERTISE

Top quality
TEUFELBERGER processes only high quality raw materials in its cutting-edge manufacturing facilities. The comprehensive quality testing of primary materials and final products as well as the certification to ISO 9001 guarantee the constant high quality of our steel wire ropes.

Competence
Our special ropes are designed for fulfilling the requirements of your application. Worldwide reference projects are testimony to the high quality of our work. We provide test certificates to ABS, DNV, BV, RINA, GL, LR, RS, NKK, CCS – depending on your needs.

RESEARCH & DEVELOPMENT

Innovative products
As customer requirements increase, our products must satisfy new, higher demands. Our R & D department provides innovation and permanent product improvement in terms of safety, reliability, and durability.

Successful partnerships
Intensive partnerships with a sizable number of key users in the retrofit market are a clear proof of our focus on our customers' needs. Also, the long-standing cooperation with universities and research institutes ensures the lively exchange of ideas toward the development of new and existing products

PLASTFILL™ INSERT

The lubricated steel core is covered in a tight synthetic coat. This provides the following advantages:

- Long service life due to the permanent lubrication and the reduction of friction between the rope's core and its outer strands
- Resistance agains pressing and lateral pressures as well as to environmental influences and the ingress of dirt
- Higher breaking forces due to reduced surface pressures in the rope
- Reduced internal abrasion by exact strand position with consistent interstices

SUPERFILL® COMPACTION TECHNOLOGY

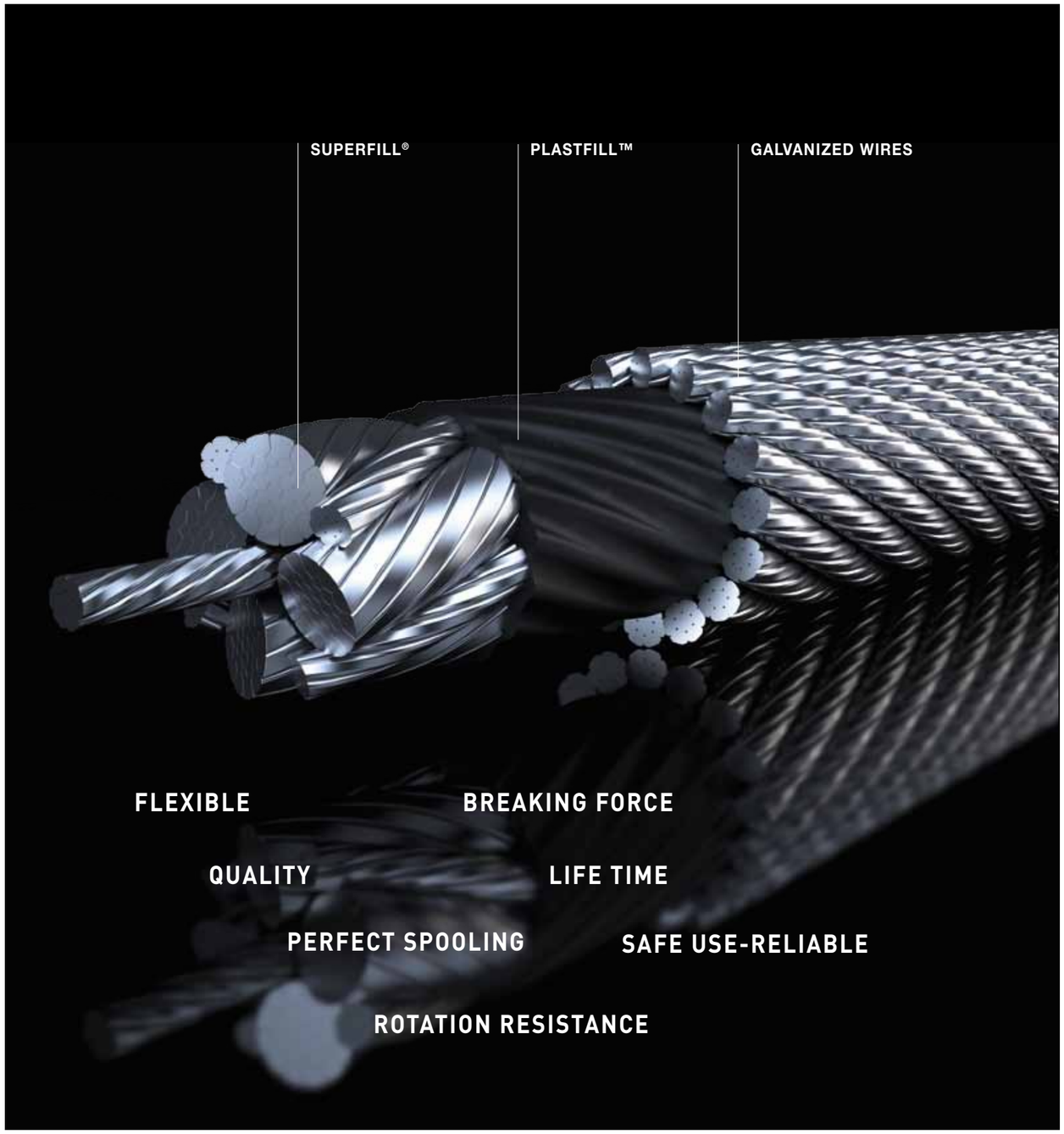
Each rope strand is compacted in a special process in order to significantly improve the rope's properties:

- Up to 30% greater breaking forces than in non-compacted ropes
- Prolonged service life due to lower specific loading
- Less abrasion on the rope and on reels and drums due to the rope's smooth surface
- Resistance against crushing in multilayer operations

GALVANIZED WIRES

Our steel wires are galvanized before they are drawn in order to achieve high wire precision. This ensures optimal stability and service life. In combination with the PLASTFILL™ technology, this galvanization ensures exceptional corrosion resistance.

OUR TECHNOLOGIES, YOUR BENEFIT



ROPES FOR **TOWER CRANES**

Operational safety and reliability are crucial for ropes employed in the building construction sector. The trend toward operating machinery at maximum capacity also entails unscheduled and very costly downtimes caused by underperforming ropes. Ropes made by TEUFELBERGER, however, have proven their worth on tower cranes from leading manufacturers around the globe: 24 hours a day, 365 days a year.

ROPES

EVOLUTION TK17

Rotation resistant lang's lay rope featuring SUPERFILL® compaction technology and suitable for hoisting to extreme heights and high loads.

- High resistance to external torsion, even in the case of large lifting heights
- Very high flexibility resulting in excellent winding behavior, great ease of installation and reeving of the rope
- Excellent service life due to high wear resistance in multilayer spooling applications

PERFECTION TK15

Rotation resistant lang's lay or ordinary lay rope, with inner rope in SUPERFILL® compaction technology.

- Great value for money due to its cost-optimized rope structure
- Best torsion behavior and optimum performance

QS 816 V

Extremely resistant 8-strand ordinary lay rope suited for use as a guy rope, pendant rope, and as mounting rope.

- Operational reliability and safety due to its extremely high breaking forces and low elongation
- Extremely robust and resistant due to the SUPERFILL® technology
- Outstanding durability due to PLASTFILL™ insert

EVOLUTION Q8

Extremely flexible 8-stand ordinary lay rope, suited for use as a trolley rope.

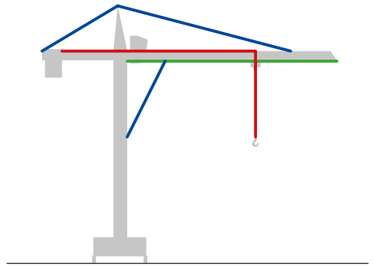
- Long service life due to excellent flexural fatigue properties
- Extremely easy to handle due to the exceptionally high flexibility of the rope

114 S

6-strand ordinary lay rope, suited for use as a trolley or mounting rope.

APPLICATIONS

The colored squares preceding the rope's designation refer to the illustration.



Tower Crane

ROPES FOR **ALL TERRAIN AND CRAWLER CRANES**

The performance of mobile cranes (truck mounted cranes, crawler cranes) continues to be enhanced. In this context, great flexibility, the ability to handle heavy loads, and increased performance in general constitute the main objectives. TEUFELBERGER offers high performance hoisting ropes specifically designed for truck mounted cranes and combining superior breaking forces and multilayer spooling capability.

ROPES

EVOLUTION TK17

Rotation resistant lang's lay rope featuring SUPERFILL® compaction technology for multilayer spooling, particularly large lifting heights, and high loads.

- Its extremely high flexibility makes this rope easy to install and to reeve
- Its exceptional breaking forces opens up new opportunities in crane design
- Particularly well suited for multilayer spooling due its high dimensional stability under lateral pressures and its minimal diameter tolerances
- The extremely low torsion in combination with a high resistance to rotation ensure the safe and troublefree transport of loads

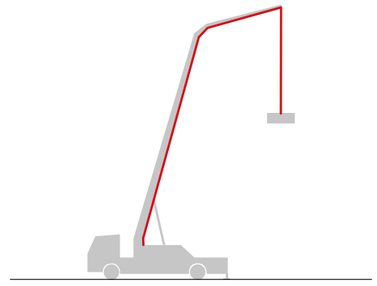
PERFECTION TK15

Rotation resistant lang's lay or ordinary lay rope, with inner rope in SUPERFILL® compaction technology.

- Great value for money thanks to its innovative structure
- Best torsional behavior and optimum performance, even for large lifting heights

APPLICATIONS

The colored squares preceding the rope's designation refer to the illustration.



All Terrain and Crawler Cranes

ROPES FOR **CIVIL ENGINEERING**

In order to achieve optimum performance, various different applications involved in civil engineering such as drilling, trench cutting, grabbing, or pile driving require rope types attuned to the respective individual purpose. By collaborating with leading equipment manufacturers and well-known end customers, TEUFELBERGER has been able to accumulate extensive experience, particularly in the specialized civil engineering segment.

ROPES

EVOLUTION TK16 & EVOLUTION TK18

Rotation resistant ordinary lay or lang's lay rope. Featuring a revolutionary design, extremely high breaking force and high flexibility, perfect suited as a hoisting rope.

- Extremely resistant to external environmental influences and the ingress of dirt, due to its PLASTFILL™ insert
- Excellent winding characteristics due to its excellent dimensional stability under lateral pressures, even in multilayer spooling use
- Extremely high operational safety due to the rope's high breaking forces and its high resistance to torsion
- Resistant to shock loads, due to its 4-strand core

PERFECTION TK15

Rotation resistant ordinary lay or lang's lay rope, particularly well suited for use as hoisting and auxiliary hoisting rope.

- Great value for money due to its innovative structure
- Best torsion behavior and optimum performance

QS 816 V(G)

Extremely resistant 8-strand ordinary lay or lang's lay rope with PLASTFILL™ insert, suited as a luffing rope, as well as a hoisting rope and a hoisting/closing rope for diaphragm wall grabs.

QS 816 V

This ordinary lay rope is particularly suited for use as a pendant rope, as a hoisting rope and dragline for cable dredger used as scrapers, and as a crowd rope for rotary drilling rigs.

- Reliability and safety in operation as a result of its extremely high breaking forces
- Extremely robust and resistant due to the PLASTFILL™ insert
- Very high dimensional stability under lateral pressures ensures excellent winding behavior, even in multilayer spooling use

EVOLUTION Q8

Extremely flexible 8-strand ordinary lay rope, suited as a crowd rope for rotary drilling rigs

- Very long service life thanks to excellent flexural fatigue properties
- Highly flexible rope which also provides for a small d/D ratio

EXECUTION K3

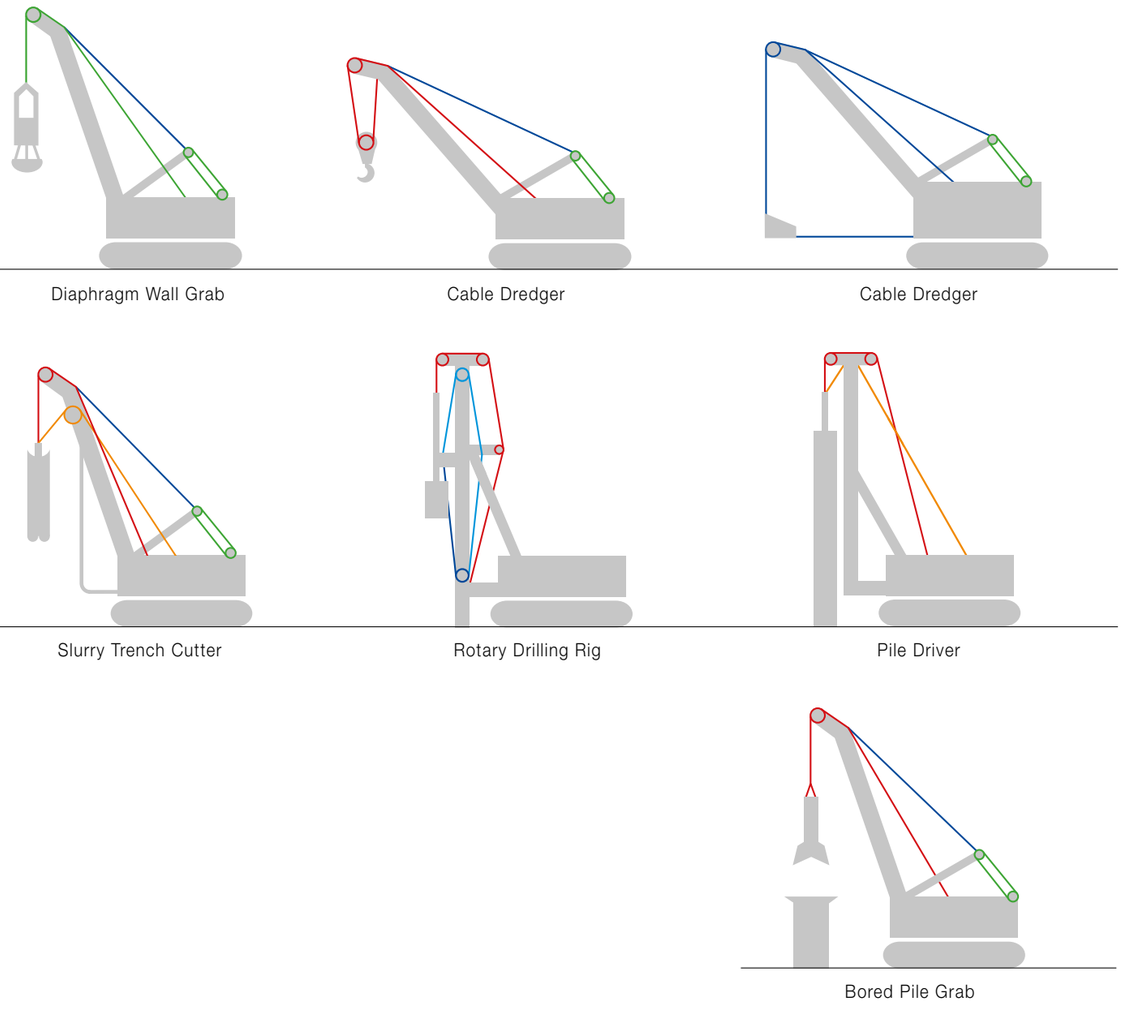
6-strand ordinary lay rope, suited as a crowd rope for rotary drilling rigs

- Cost-effective 6-strand rope that serves as an alternative to the 8-strand ropes
- Resistant to shock loads

HIGH-PERFORMANCE STEEL WIRE ROPES

APPLICATIONS

The colored squares preceding the rope's designation refer to the illustration.



ROPES FOR **SCRAPER INSTALLATIONS AND PONTOON CRANES**

The rough operating conditions of rope excavators in gravel mining pose particular challenges for the ropes, especially in terms of their flexibility and resistance to shock-type loads.

ROPES

QS 816 V

Extremely resistant 8-strand ordinary lay rope incorporating SUPERFILL® compaction technology and a PLASTFILL™ insert. It is suited for use as a dragline in gravel mining and scraper installations

- Reliability and safety in operation as a result of its extremely high breaking forces
- Extremely robust and resistant due to its PLASTFILL™ insert
- Its high dimensional stability under lateral pressures provides for excellent winding characteristics, even in multilayer spooling use

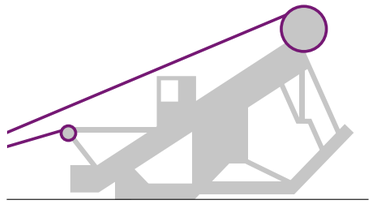
PS 610 F

6-strand round strand rope featuring a fiber core with SUPERFILL® compaction technology and a PLASTFILL™ insert. It is suited for use as a dragline in gravel mining and scraper installations.

- Extreme wear and shock resistance thanks to the rope's special structure including a flexible fiber core, thick outer wires, and a high degree of compaction
- Particularly high dimensional stability under lateral pressures due to the plastic-infused fiber core.

APPLICATIONS

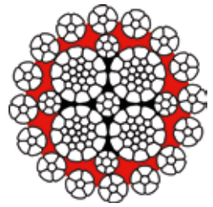
The colored squares preceding the rope's designation refer to the illustration.



Scraper Installation

EVOLUTION **TK16**

Revolutionary design, high quality materials, and perfectly harmonized production processes – EVOLUTION TK16 combines all the characteristics needed for your application: Extremely resistant and best flexibility!



SPECIFICATIONS

- Ordinary lay or lang's lay, right or left lay
- 8 – 30mm: 16 x K6-EPIWRC (K), RCN 23-1
- 32 – 42mm: 16 x K7-EPIWRC (K), RCN 23-2

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☑ PLASTFILL™

TECHNICAL DATA

Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
8	5/16	0,34	54	59	64
9		0,41	67	74	78
10		0,50	82	91	98
11	7/16	0,61	100	111	118
12		0,74	120	133	144
13		0,86	141	156	170
14	9/16	1,01	163	181	197
15		1,16	194	215	231
16	5/8	1,32	221	244	263
17		1,50	241	267	290
18		1,64	279	309	333
19	3/4	1,85	312	345	371
20		2,08	338	374	401
21		2,26	373	413	444
22	7/8	2,51	408	452	487

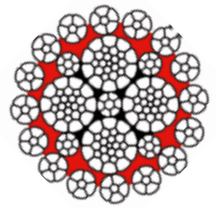
Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
24		2,94	483	535	580
25	1	3,15	537	595	639
26		3,49	567	627	675
27		3,74	609	674	725
28		4,05	655	725	780
28,57	1 1/8	4,14	668	744	814
29		4,27	701	777	835
30		4,62	749	830	893
32	1 1/4	5,24	853	944	1.016
34		5,90	958	1.061	1.141
36		6,65	1.072	1.187	1.277
38	1 1/2	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 rope diameters are available on request.

EVOLUTION **TK16**[plus]

Higher breaking forces for special customer needs. The consistent and systematic further development and improvement of the production processes involved facilitates particularly narrow manufacturing tolerances.

NEW HIGHER MBF



SPECIFICATIONS

- Ordinary lay or lang's lay, right or left lay
- 8 – 30mm: 16 x K6-EPIWRC (K), RCN 23-1
- 32 – 42mm: 16 x K7-EPIWRC (K), RCN 23-2

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☑ PLASTFILL™

TECHNICAL DATA

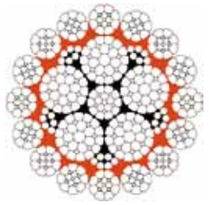
Nominal Ø		Weight	Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	1960 N/mm²
8	5/16	0,34	62
9		0,41	79
10		0,50	97
11	7/16	0,61	117
12		0,74	140
13		0,86	164
14	9/16	1,01	190
15		1,16	218
16	5/8	1,32	248
17		1,50	280
18		1,64	314
19	3/4	1,85	350
20		2,08	388
21		2,26	428
22	7/8	2,51	469

Nominal Ø		Weight	Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	1960 N/mm²
24		2,94	559
25	1	3,15	606
26		3,49	656
27		3,74	707
28		4,05	760
28,57	1 1/8	4,14	792
29		4,27	816
30		4,62	873
32	1 1/4	5,24	993
34		5,90	1.121
36		6,65	1.257
38	1 1/2	7,35	1.369
40		8,13	1.517
42		8,97	1.672

Other rope diameters are available on request. Minimum quantity on request.

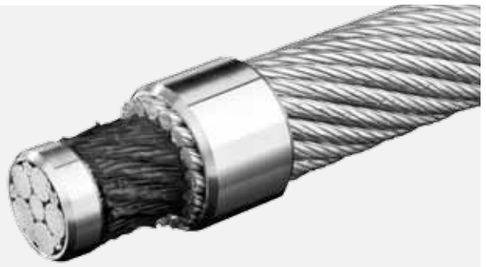
EVOLUTION **TK18**

The EVOLUTION TK18 is our high-performance rope for large cranes. EVOLUTION TK18 has been developed for cranes which operate under hardest conditions. This rope offers best in class breaking forces, a high flexibility and is the first choice for larger diameters between 44 and 80 mm.



SPECIFICATIONS

- Ordinary lay or lang's lay, right or left lay
- 16 x K17F - EPIWRC (K), RCN 27



- ☑ SUPERFILL®
- ☑ PLASTFILL™
- ☑ MULTILAYER SPOOLING

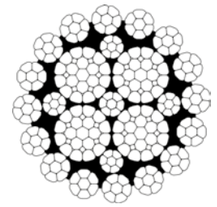
TECHNICAL DATA

Nominal Ø		Weight	Minimum breaking force [kN]	
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²
44,45	1 3/4	9,48	1.641	1.817
46		10,24	1.758	1.960
48		11,12	1.914	2.119
50		12,40	2.076	2.299
50,8	2	12,98	2.143	2.374
52		13,61	2.246	2.487
54		14,48	2.422	2.682
56		15,28	2.605	2.884
58		16,80	2.794	3.094
60		17,92	2.990	3.311
62		18,90	3193	3536
64		20,43	3.402	3.767
66		21,14	3.618	4.006
68		22,44	3.841	4.253
70		23,91	4.070	4.507
72		25,40	4.306	4.768
74		26,90	4.548	5.037
76		28,07	4.798	5.313
78		29,80	5.053	5.596
80		31,40	5.316	5.887

Other rope diameters are available on request.

EVOLUTION **TK17**

EVOLUTION TK17 features - due to its structure - optimum all-round characteristics combined with extremely high breaking forces. EVOLUTION TK17 was designed specifically for use in challenging multilayer spooling conditions, especially also for small drum diameters.



SPECIFICATIONS

- Lang's lay (also available as ordinary lay rope), right or left lay
- 16 x K7-PIWRC (K), RCN 23-2

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☐ PLASTFILL™

TECHNICAL DATA

Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
10		0,48	82	91	98
11		0,61	100	111	118
12		0,72	120	133	144
13		0,86	141	156	170
14	9/16	0,97	163	181	197
15		1,11	188	208	226
16	5/8	1,26	214	236	257
17		1,42	241	267	286
18		1,61	271	300	325
19	3/4	1,78	302	334	362
20		2,02	338	374	401
21		2,23	373	413	444
22	7/8	2,44	408	452	487
23		2,62	445	493	533
24		2,83	483	535	580
25	1	3,11	524	580	624
26		3,34	567	614	677
27		3,58	609	674	725
28		3,89	655	725	780

Other rope diameters are available on request.

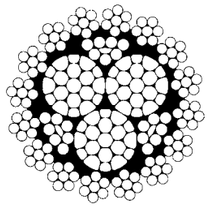
Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
29		4,14	701	777	835
30		4,49	749	830	893
32	1 1/4	4,98	852	944	1.016
34		5,62	958	1.061	1.141

EVOLUTION **TK17plus**

Nominal Ø		Weight	Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	2160 N/mm²
23		2,62	550
26		3,34	682
28		3,89	811
32	1 1/4	4,98	1.035

PERFECTION **TK15**

Rotation is a thing of the past, the future is PERFECTION TK15. Check out this ideal combination of exceptional torsional stability and high breaking forces, long service life and optimum winding behavior.
Rotation resistant. Cost-effective. Safe.



SPECIFICATIONS

- Ordinary lay or lang's lay, right or left lay
- 16 x 7-IWRC (K), RCN 23-2

- [x] MULTILAYER SPOOLING
- [x] SUPERFILL®
- [ ] PLASTFILL™

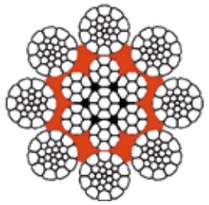
TECHNICAL DATA

Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
7		0,23	36	40	43
8	5/16	0,30	49	53	56
9		0,38	60	67	71
9,2		0,39	63	70	77
10		0,48	74	82	87
11	7/16	0,56	90	100	106
12		0,67	108	118	126
13		0,78	126	140	148
14	9/16	0,89	146	162	172
15		1,04	168	186	197
16	5/8	1,16	191	211	224
17		1,32	215	239	253
18		1,49	241	267	284
19	3/4	1,64	269	298	316
20		1,82	298	330	350
21		2,01	328	364	386
22	7/8	2,20	360	399	423
23		2,40	394	436	463
24		2,61	429	475	504

Other rope diameters are available on request.

QS 816 V(G)

Extreme resistance to negative external influences distinguish this rope from others. SUPERFILL® compaction technology developed by TEUFELBERGER provides high breaking forces and highest safety in use. Compaction in the core and a PLASTFILL™ insert result into stability against lateral pressures.



SPECIFICATIONS

- QS 816 V in ordinary lay configuration, QS 816VG in lang's lay configuration, right or left lay
- 10 – 42mm: 8 x K26WS - EPIWRC (K), RCN 09
- 44 – 50mm: 8 x K31WS - EPIWRC (K), RCN 11
- 52 – 70mm: 8 x K42WS - EPIWRC (K), RCN >13

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☑ PLASTFILL™

TECHNICAL DATA

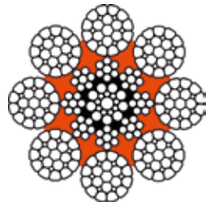
Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
10		0,46	81	89	98
11	7/16	0,55	97	107	118
12		0,69	117	129	143
13		0,81	141	156	172
14	9/16	0,93	162	179	198
15		1,06	185	205	226
16	5/8	1,20	210	232	256
17		1,35	235	261	287
18		1,55	263	291	321
19	3/4	1,71	302	335	369
20		1,89	330	365	402
21		2,15	374	414	457
22	7/8	2,34	408	451	497
23		2,54	445	492	543
24		2,75	467	517	570
25	1	2,97	518	574	633
26		3,19	555	615	678
27		3,51	595	659	727
28		3,76	656	726	800
28,57	1 1/8	4,04	672	745	820
29		3,98	694	768	847

Nominal Ø		Weight	Minimum breaking force [kN]		
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²	2160 N/mm²
30		4,37	764	846	897
32	1 1/4	4,90	864	957	1.072
34		5,59	945	1.046	1.153
36		6,36	1.071	1.186	1.284
38	1 1/2	7,03	1.222	1.354	1.431
40		7,81	1.342	1.486	1.545
42		8,60	1.482	1.641	1.736
44		9,27	1.596	1.768	on request
46		10,30	1.760	1.949	on request
48		10,78	1.848	2.050	on request
50		11,60	2.016	2.232	on request
52		12,50	2.180	2.414	on request
54		13,91	2.287	2.532	on request
56		14,50	2.529	2.850	on request
58		15,60	2.712	3.004	on request
60		16,70	2.903	3.214	on request
62		17,80	3.099	3.432	on request
64		19,74	3.303	3.657	on request
66		20,63	3.495	3.870	on request
68		21,40	3.728	4.128	on request
70		22,70	3.951	4.375	on request

Other rope diameters are available on request.

EVOLUTION **Q8**

Endurance is everything. EVOLUTION Q8 – the high performance hoisting rope for industrial applications impresses with its extremely long service life and its high breaking forces. Due to its innovative outer compaction. EVOLUTION Q8. **Lasts significantly longer.**



SPECIFICATIONS

- Ordinary lay, right or left lay
- 12 – 50mm: 8 x K25F - EPIWRC, RCN 06
- 52 – 54mm: 8 x K35F - EPIWRC, RCN 10

- ☐ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☑ PLASTFILL™

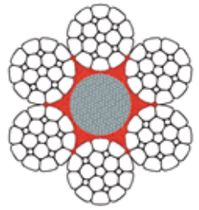
TECHNICAL DATA

Nominal Ø		Weight	Minimum breaking force [kN]	
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm²
12		0,64	110	122
14	9/16	0,85	150	166
16	5/8	1,13	196	217
18		1,40	247	274
20		1,78	306	339
22	7/8	2,11	370	410
24		2,49	441	502
25	1	2,74	478	529
26		2,94	517	572
28		3,51	600	664
29		3,72	643	712
30		3,94	688	762
32	1 1/4	4,65	783	867
34		5,24	882	977
36		6,02	999	1.097
38	1 1/2	6,69	1.104	1.223
40		7,41	1.223	1.355
42		8,17	1.349	1.494
44		9,00	1.480	1.639
46		9,80	1.618	1.792
48		10,55	1.762	1.951
50		11,44	1.912	2.117
52		12,40	2.067	2.289
54		13,41	2.230	2.469

Other rope diameters are available on request.

PS 610 F

PS 610 F stands for a 6-stand round strand rope in SUPERFILL® design featuring a PLASTFILL™ insert. Its extremely robust design including a plastic-infused fiber core makes this compacted steel wire rope ideal for use as a dragline in gravel mining, scraper installations, and on logging winches.



SPECIFICATIONS

- Lang's lay, right or left lay
- 6 x K21F - SFC, RCN 03

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☑ PLASTFILL™

TECHNICAL DATA

Nominal Ø [mm]	Weight [kg/m]	Minimum breaking force [kN] 1770 N/mm²
22	2,1	375
26	2,75	517
29	3,7	643
36	5,25	955
40	6,47	1.232

Other rope diameters are available on request.

EXECUTION **K3**

SPECIFICATIONS

- Ordinary lay, right or left lay
- 6 x K31WS – IWRC(K), RCN 08

- ☑ MULTILAYER SPOOLING
- ☑ SUPERFILL®
- ☐ PLASTFILL™

TECHNICAL DATA

Nominal Ø [mm]	Weight [kg/m]	Minimum breaking force [kN] 1770 N/mm²	Minimum breaking force [kN] 1960 N/mm²
20	1,8	315	349
22	2,2	381	422
24	2,7	453	502
26	3,0	532	589
28	3,5	617	683
30	4,0	708	784

Other rope diameters are available on request.

114 S

SPECIFICATIONS

- Ordinary lay with steel core, right or left lay
- 6 x 19S - IWRC, RCN 02

- ☑ MULTILAYER SPOOLING
- ☐ SUPERFILL®
- ☐ PLASTFILL™

TECHNICAL DATA

Nominal Ø [mm]	Nominal Ø [inch]	Weight [kg/m]	Minimum breaking force [kN] 1960 N/mm²
6,5		0,17	30
7		0,20	34
7,5		0,23	39
8	5/16	0,26	45
9		0,32	57
10		0,41	70
11	7/16	0,47	84
12		0,59	101

Other rope diameters are available on request.

WIRE LOCK ACCORDING TO EN 13411

MECHANICAL SPLICE ACCORDING TO EN 13411

FURTHER END CONNECTIONS

TEUFELBERGER
Pull-Eye

Further connections available on request.

DISCARD CRITERIA OF TEUFELBERGER SPECIAL STEEL WIRE ROPES

The discard criteria for TEUFELBERGER special steel wire ropes are defined according to ISO 4309. This include ‚reduction of the rope diameter, corrosion and wire breaks. For assessing the discard condition based on wire breaks, the rope category number (RCN) is used. For TEUFELBERGER special steel wire ropes, this number is listed in the following tables. For further details regarding the discard criteria for wire ropes to ISO 4309, see the **„Application Handbook – High Performance Crane Ropes“** at www.teufelberger.com

ROTATION RESISTANT ROPES

Type of design	Diameter range [mm]	RCN*	n**
PERFECTION **PERFECTION TK15**	7-24	23-2	112
EVOLUTION **EVOLUTION TK16**	9-30	23-1	96
	32-42	23-2	112
EVOLUTION **EVOLUTION TK17**	10-42	23-2	112
EVOLUTION **EVOLUTION TK18**	44-80	27	272

NON-ROTATION-RESISTANT ROPES

Type of design	Diameter range [mm]	RCN*	n**
EVOLUTION **QS 816 V(G)**	10-42	9	208
	44-50	11	248
	52-70	>13	336
EVOLUTION **EVOLUTION Q8**	12-50	6	152
	52-54	10	224
EXECUTION **PS 610 F**	22-40	4	106
EXECUTION **EXECUTION K3**	20-30	8	186
114S	6-24	2	60

* RCN = Rope Category Number

**n = Number of outer strands and total number of load-bearing wires in the outer layer of strands in the rope

YOUR BENEFIT WITH TEUFELBERGER:

EXPERTISE
Our special steel wire ropes are designed for fulfilling the requirements of your application in an optimal way.

HIGHEST QUALITY
Only high-strength material and state-of-the-art production processes are used for our products.

SERVICE AROUND THE CLOCK
Our 24-hour hotline and top service team ensure that our experts are available within the shortest time possible wherever required.

EXPERT CONSULTANCY
TEUFELBERGER‘s network of consultants ensures that expert support is close to you. Our staff is especially trained for your application which translates into cooperative development of the most useful answer to any problems which may occur.

DELIVERY RELIABILITY
TEUFELBERGER‘s management of orders ensures optimal processing in production and logistics.

RESEARCH AND DEVELOPMENT
Our R&D deparment provides permanent product improvement in terms of safety, reliability and service life.

24-HOUR HOTLINE: +43 (0) 7242-615-388

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