

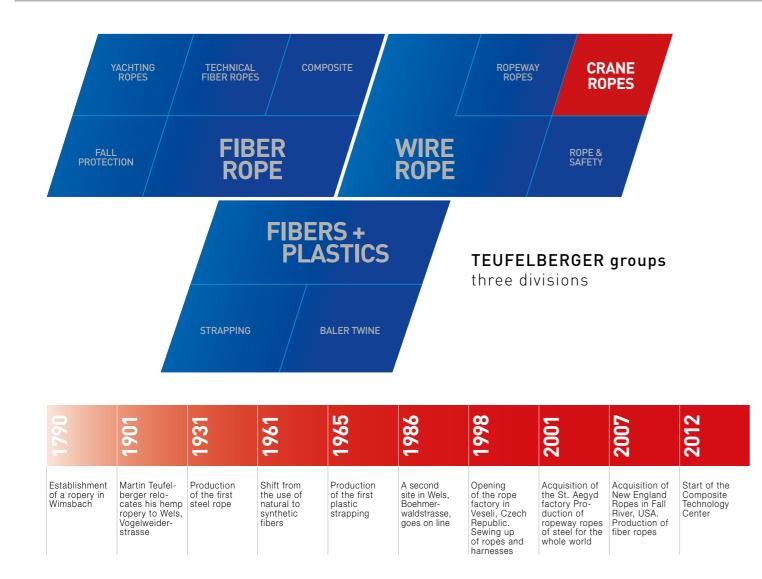
CONSTRUCTION SPECIAL STEEL WIRE ROPES





TEUFELBERGER SEIL GES.M.B.H.

220 YEARS OF SUCCESS



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 TEUFELBI Ges.m.b.H St. Aegyd Austria wire ropes





JIHOTEX spol s.r.o. Veseli, Czech Republic fiber ropes New England Ropes Corp. Fall River, USA fiber ropes

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▲ 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[®], PLASTFILL[™] and SUPERFILL[®] are registered trademarks of TEUFELBERGER Ges.m.b.H. Subject to technical modifications, typesetting and printing errors.

TEUFELBERGER Seil
Ges.m.b.H.JIHOTEX sSt. Aegyd Wire Rope,
Austriafiber ropes

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TEUFELBERGER SEIL GES.M.B.H.

WE OFFER MORE

In manufacturing, research & development, and marketing & sales, we at TEUFEL-BERGER 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 cooperation with our suppliers ensure that our products satisfy all your requirements. Working together with you, the team from TEUFELBERGER will elaborate the best solution

PLASTFILL™ INSERT

following advantages:

strands

The lubricated steel core is covered in

a tight synthetic coat. This provides the

Long service life due to the permanent

lubrication and the reduction of friction

between the rope's core and its outer

Resistance agains pressing and lateral

Higher breaking forces due to reduced

strand position with consistent interstices

surface pressures in the rope

Reduced internal abrasion by exact

QUALITY & EXPERTISE

RESEARCH & DEVELOPMENT

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.

Intensive partnerships with a sizable number of key users in the retrofit market are a

clear proof of our focus on our customers'

tion with universities and research institutes

ensures the lively exchange of ideas toward

the development of new and existing prod-

needs. Also, the long-standing coopera-

Innovative products

Successful partnerships

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

Top quality

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.



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

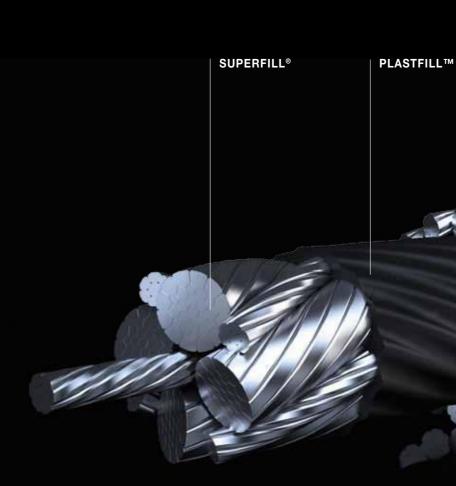
SUPERFILL® COMPACTION TECHNOLOGY

- 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 PLAST-FILL[™] technology, this galvanization ensures exceptional corrosion resistance.

OUR TECHNOLOGIES, YOUR BENEFIT



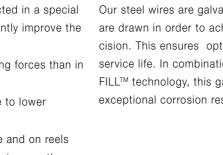
FLEXIBLE

QUALITY

PERFECT SPOOLING

ROTATION RESISTANCE

pressures as well as to environmental influences and the ingress of dirt



ucts

GALVANIZED WIRES

BREAKING FORCE

LIFE TIME

SAFE USE-RELIABLE

HIGH-PERFORMANCE STEEL WIRE ROPES

HIGH-PERFORMANCE STEEL WIRE ROPES

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 costoptimized 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

refer to the illustration

The colored squares preceding the rope's designation

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

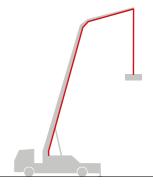
Rotation resistant lang's lay or ordinary lay rope, with inner rope in SUPERFILL® compaction technology. Great value for money thanks to its

- 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





HIGH-PERFORMANCE STEEL WIRE ROPES

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

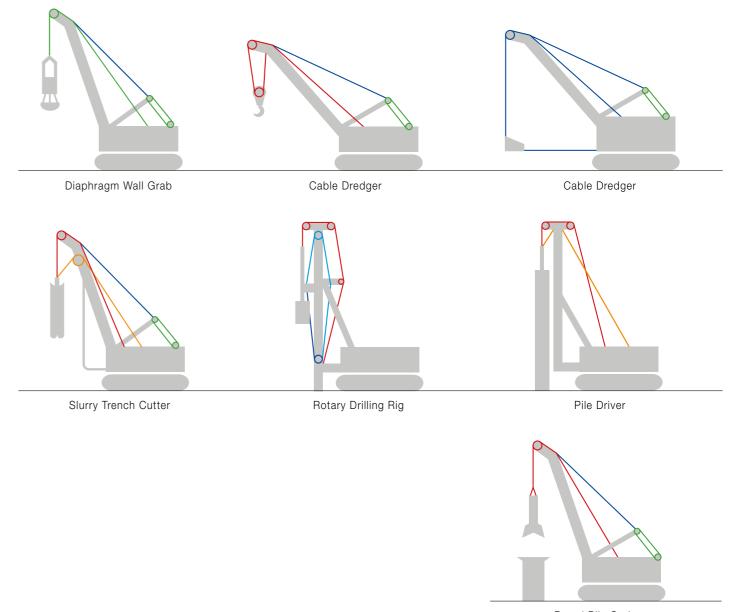
6-strand ordinary lay rope, suited as a crowd rope for rotary drilling rigs

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



APPLICATIONS

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



HIGH-PERFORMANCE STEEL WIRE ROPES

Bored Pile Grab

HIGH-PERFORMANCE STEEL WIRE ROPES

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

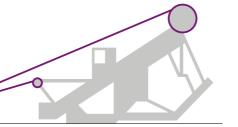
Extremely resistant 8-strand ordinary lay rope incorporating SUPERFILL[®] compaction technology and a PLASTFILL[™] insert. It is suited for use as a dragline in gravel mining for use as a dragline in gravel mining and and scraper installations

- 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 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.



The colored squares preceding the rope's designation

APPLICATIONS

refer to the illustration.

Scraper Installation





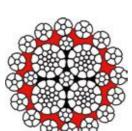






EVOLUTION TK16

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™

Nomi	inal Ø	Weight	bre	Minimum breaking force [kN]		Nomi	inal Ø	Weight	bre	Minimum aking force [[kN]
[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²	[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²
8	5/16	0,34	54	59	64	24		2,94	483	535	580
9		0,41	67	74	78	25	1	3,15	537	595	639
10		0,50	82	91	98	26		3,49	567	627	675
11	7/16	0,61	100	111	118	27		3,74	609	674	725
12		0,74	120	133	144	28		4,05	655	725	780
13		0,86	141	156	170	28,57	1 1/8	4,14	668	744	814
14	9/16	1,01	163	181	197	29		4,27	701	777	835
15		1,16	194	215	231	30		4,62	749	830	893
16	5/8	1,32	221	244	263	32	1 1/4	5,24	853	944	1.016
17		1,50	241	267	290	34		5,90	958	1.061	1.141
18		1,64	279	309	333	36		6,65	1.072	1.187	1.277
19	3/4	1,85	312	345	371	38	1 1/2	7,35	1.237	1.369	1.472
20		2,08	338	374	401	40		8,13	1.317	1.458	1.568
21		2,26	373	413	444	42		8,97	1.452	1.608	1.729
22	7/8	2.51	408	452	487						

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.

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®



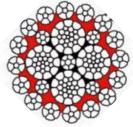
Nom	inal Ø	Weight	Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	1960 N/mm ²
8	5/16	0,34	62
9		0,41	79
10		0,50	97
11	7/16	0,61	117
12		0,74	140
13		0,86	164
14	9/16	1,01	190
15		1,16	218
16	5/8	1,32	248
17		1,50	280
18		1,64	314
19	3/4	1,85	350
20		2,08	388
21		2,26	428
22	7/8	2,51	469

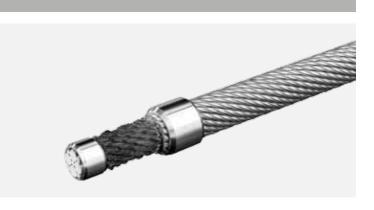
Other rope diameters are available on request. Minimum quantity on request.



NEV







Nomi	nal Ø	Weight	Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	1960 N/mm ²
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

ROTATION RESISTANT

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

New		M/ . * . I. I		The Course PLAN
	ninal Ø	Weight	Minimum breal	
[mm]	[inch]	[kg/m]	1770 N/mm²	1960 N/mm ²
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

PLASTFILL™

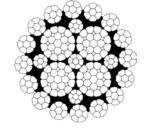
TECHNICAL DATA

Nomi	nal Ø	Weight	bre	Minimum aking force	[kN]
[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²
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.

ROTATION RESISTANT







Nomi	Nominal Ø		bre	Minimum aking force [kN]
[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²
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

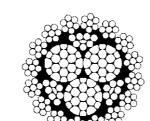
EVOLUTION **TK17**^{plus}

Nomi	Nominal Ø Weight		Minimum breaking force [kN]
[mm]	[inch]	[kg/m]	2160 N/mm ²
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

MULTILAYER SPOOLING

SUPERFILL®

PLASTFILL™

TECHNICAL DATA

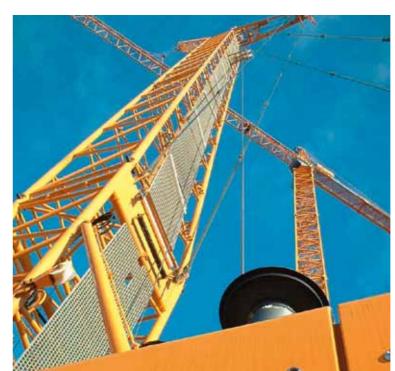
Nom	inal Ø	Weight	N	linimum breaking force [k	N]
[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²
7		0,23	36	40	43
8	5/16	0,30	49	53	56
9		0,38	60	67	71
9,2		0,39	63	70	77
10		0,48	74	82	87
11	7/16	0,56	90	100	106
12		0,67	108	118	126
13		0,78	126	140	148
14	9/16	0,89	146	162	172
15		1,04	168	186	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.





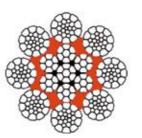






NON-ROTATION RESISTANT EVOLUTION

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™

Nomi	inal Ø	Weight	Minimum breaking force [kN]		Nomi	nal Ø	Weight	bre	Minimum aking force	[kN]	
[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²	[mm]	[inch]	[kg/m]	1770 N/mm ²	1960 N/mm ²	2160 N/mm ²
10		0,46	81	89	98	30		4,37	764	846	897
11	7/16	0,55	97	107	118	32	1 1/4	4,90	864	957	1.072
12		0,69	117	129	143	34		5,59	945	1.046	1.153
13		0,81	141	156	172	36		6,36	1.071	1.186	1.284
14	9/16	0,93	162	179	198	38	1 1/2	7,03	1.222	1.354	1.431
15		1,06	185	205	226	40		7,81	1.342	1.486	1.545
16	5/8	1,20	210	232	256	42		8,60	1.482	1.641	1.736
17		1,35	235	261	287	44		9,27	1.596	1.768	on request
18		1,55	263	291	321	46		10,30	1.760	1.949	on request
19	3/4	1,71	302	335	369	48		10,78	1.848	2.050	on request
20		1,89	330	365	402	50		11,60	2.016	2.232	on request
21		2,15	374	414	457	52		12,50	2.180	2.414	on request
22	7/8	2,34	408	451	497	54		13,91	2.287	2.532	on request
23		2,54	445	492	543	56		14,50	2.529	2.850	on request
24		2,75	467	517	570	58		15,60	2.712	3.004	on request
25	1	2,97	518	574	633	60		16,70	2.903	3.214	on request
26		3,19	555	615	678	62		17,80	3.099	3.432	on request
27		3,51	595	659	727	64		19,74	3.303	3.657	on request
28		3,76	656	726	800	66		20,63	3.495	3.870	on request
28,57	1 1/8	4,04	672	745	820	68		21,40	3.728	4.128	on request
29		3,98	694	768	847	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.

6	•	-				41	6		14
b -1	-	-	 F١		4 W I		[[]]	LV.1	~
				-					

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

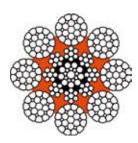
MULTILAYER SPOOLING



Nomi	nal Ø	Weight
[mm]	[inch]	[kg/m]
12		0,64
14	9/16	0,85
16	5/8	1,13
18		1,40
20		1,78
22	7/8	2,11
24		2,49
25	1	2,74
26		2,94
28		3,51
29		3,72
30		3,94
32	1 1/4	4,65
34		5,24
36		6,02
38	1 1/2	6,69
40		7,41
42		8,17
44		9,00
46		9,80
48		10,55
50		11,44
52		12,40
54		13,41

NON-ROTATION RESISTAN1 EVOLUTION





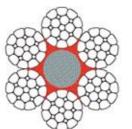


Minimum breaking force [kN]				
1770 N/mm ²	1960 N/mm ²			
110	122			
150	166			
196	217			
247	274			
306	339			
370	410			
441	502			
478	529			
517	572			
600	664			
643	712			
688	762			
783	867			
882	977			
999	1.097			
1.104	1.223			
1.223	1.355			
1.349	1.494			
1.480	1.639			
1.618	1.792			
1.762	1.951			
1.912	2.117			
2.067	2.289			
2.230	2.469			

NON-ROTATION RESISTANT EXECUTION

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™

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™

Nominal Ø	Weight	Minimum breaking force [kN]	
[mm]	[kg/m]	1770 N/mm ²	1960 N/mm ²
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™

nal Ø	Weight	Minimum breaking force [kN]
[inch]	[kg/m]	1960 N/mm ²
	0,17	30
	0,20	34
	0,23	39
5/16	0,26	45
	0,32	57
	0,41	70
7/16	0,47	84
	0,59	101
	[inch] 5/16	[inch] [kg/m] 0,17 0,20 0,23 0,23 5/16 0,26 0,32 0,41 7/16 0,47

Other rope diameters are available on request



NON-ROTATION RESISTANT EXECUTION









WIRE ROPE END CONNECTIONS



MECHANICAL SPLICE ACCORDING TO EN 13411



FURTHER END CONNECTIONS

TEUFELBERGER Pull-Eye



Further connections available on request.











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 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 K3	20-30	8	186
1145	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

DISCARD CRITERIA

DISCARD CRITERIA OF TEUFELBERGER SPECIAL STEEL WIRE ROPES







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 department provides permanent product improvement in terms of safety, reliability and service life.

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

TEUFELBERGER Seil Ges.m.b.H. Böhmerwaldstraße 20 4600 Wels, Austria T +43 7242 615-0 F +43 7242 60501 E wirerope@teufelberger.com

www.teufelberger.com

