



Teufelberger · Redaelli

OIL AND GAS

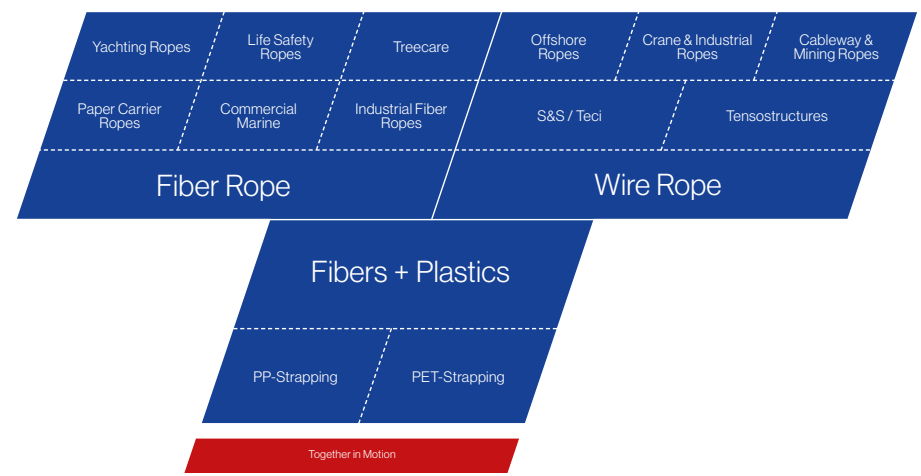
Special steel wire ropes

EXPERTISE FROM MORE THAN 225 YEARS OF EXPERIENCE

What started back in 1790 as a simple shop making hemp ropes has since evolved into a globally successful group of enterprises specializing in the development and production of fiber and steel wire ropes as well as strapping.

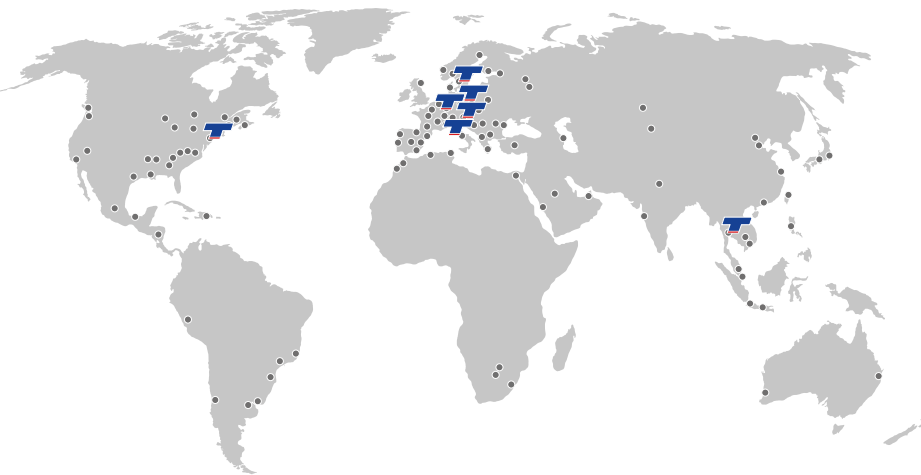
Great diversity

TEUFELBERGER's products and services are destined for a wide variety of applications ranging from cranes and marine applications to packaging and through to personal protection. The continuity and stability of a family enterprise makes us a reliable partner who, competently and effectively, supports you in mastering your day-to-day challenges..



Global presence ensures customer proximity

Manufacturing operations in various countries allow us to meet local quality and certification standards as well as customer requirements without difficulty. From our sites in Austria, the Czech Republic, the U.S., Italy, Sweden, and Thailand, and backed by a close-knit global network of distribution partners, we continue to satisfy the expectations of our customers.



Innovative solutions through synergies

TEUFELBERGER is a leading specialist for fiber and steel wire ropes as well as strapping. The spectrum of technologies in TEUFELBERGER's portfolio generates various synergies between the extrusion of thermoplastics, the braiding of high performance fibers, and the processing of wires into ropes and strapping.

Especially fiber and steel wire products have brought about valuable synergies with regard to both application and manufacturing technologies, which have benefited our customers tremendously. This makes TEUFELBERGER your ideal partner right from the project planning phase.

5% of TEUFELBERGER's employees are active in research and development and make sure that our customers have access to the latest innovative rope technologies. 10% of the entire investment volume is committed to development and quality assurance.

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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.

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WE OFFER MORE.

In manufacturing, research & development, and marketing & sales, Teufelberger-Redaelli focus exclusively on high quality special purpose steel wire ropes. Breakthrough technologies and top quality products are the base of our success.

Teufelberger-Redaelli Service

Expert advice

Teufelberger-Redaelli's network of experts provides competent support close to you. This allows us to find the best possible solution for your needs. **24 h 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-Redaelli will determine the best solution.

Quality and expertise

Top quality

Teufelberger-Redaelli 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 consistent high quality of our steel wire ropes.

Competence

Our special ropes are designed to fulfill the requirements of your application. Worldwide reference projects are a testament 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 and development

Innovative products

As customer requirements change, our products must satisfy new, higher demands. Our R&D team drives innovation and continuous product improvement in terms of safety, reliability, and durability.

Successful partnerships

Intensive partnerships with a sizable number of key users in the sparepart market are clear examples of our focus on our customers' needs. Also, the long-standing cooperation with universities and research institutions ensure 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 to compression and lateral pressure 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 thanks to the exact positioning of strands with consistent clearances between them

SUPERFILL® COMPACTION TECHNOLOGY

Each rope strand is compacted by a special process, which significantly improves the rope's properties:

- Up to 30 % greater breaking forces than 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.

PRO ACTIVE CORE LUBRICATION

Temperature resistant special grease with significantly improved lubrication properties especially for high temperature application (AHC).

- Higher resistance against corrosion of the core
- Improved service life due to optimal lubrication and the reduction of friction of the rope core

Our technology. Your benefit.

Flexibility, quality, perfect spooling, rotation resistance, breaking force, life time, safe and reliable in use.



ROPES FOR OFFSHORE CRANES & WINCHES

Continuous use in extreme environmental conditions places high demands on offshore cranes and winches. Meeting high standards in terms of reliability and safety is of crucial importance for the use of steel wire ropes, also in offshore environments. Teufelberger-Redaelli ropes live up to these standards day after day on countless cranes operating on offshore platforms throughout the world.

Ropes

EVOLUTION TK16 & EVOLUTION TK18

Rotation resistant ordinary lay or lang's lay rope. Features a revolutionary design, extremely high breaking force, and high flexibility. Perfectly suited as a hoisting rope in multilayer or single-layer spooling.

- Extremely resistant to corrosion and external environmental influences due to the PLASTFILL® insert (between the core and outer strands).
- Excellent spooling results for multilayer spooling due to its flexibility make it suitable for extremely challenging lifting operations.
- Longer service life for best return on investment, and highest breaking forces thanks to its rope structure featuring the innovative PLASTFILL® and SUPERFILL® technologies.
- High rotation resistance due to its advanced balanced design, suitable for use for great lifting heights and in deep water.
- Special lubrication solutions on demand for high temperature application (AHC).

QS 816 V(G)

Extremely resistant 8-strand ordinary lay or lang's lay rope with PLASTFILL® insert. Especially suited as a boom hoist rope in single-layer and multilayer spooling configurations.

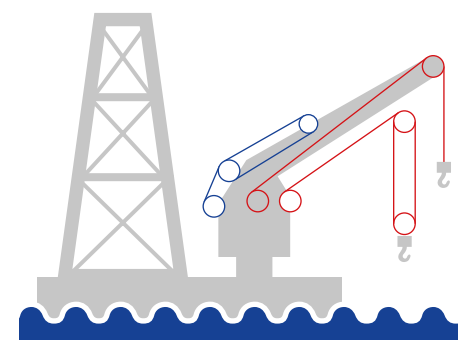
- Reliable and safe in use as a result of its extremely high breaking forces, achieved primarily by SUPERFILL® compaction technology provided throughout the rope's entire whole cross-section.
- Long service life due to PLASTFILL® insert and reduced rope abrasion resulting from the rope's smooth surface.
- Ideal spooling characteristics due to the rope's high dimensional stability against lateral pressure.
- Trouble-free operation due to the rope's excellent resistance to shocks and vibrations.

Applications

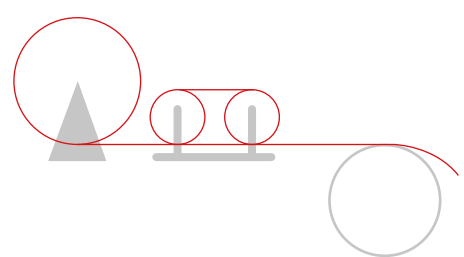
The colors of the headlines coordinate with those of the ropes in the illustrations.

Other types of construction on request.

Offshore cranes



Offshore winches



ROPES FOR MARINE RISER TENSIONERS

Riser tensioners are important installations on floating oil platforms in order to compensate for ocean currents and waves. Their permanent exposure to tensile loads and high bending cycles in harsh ambient conditions puts these ropes to the test. Teufelberger-Redaelli riser tensioner ropes meet all requirements to perfection and demonstrate this on numerous offshore platforms all over the world.

Ropes

PERFECTION M8 (QS 814 VG)

Galvanized 8-strand lang's lay rope, featuring SUPERFILL® compaction technology, developed specifically for use as a riser tensioner rope.

- Reliable and safe in use as a result of its extremely high breaking forces achieved by SUPERFILL® technology.
- Excellent bending fatigue performance and high flexibility due to the rope's 8-strand construction and the high number of wires in the outer strands.
- Longer service life due to reduced rope abrasion as a result of the rope's smooth surface.

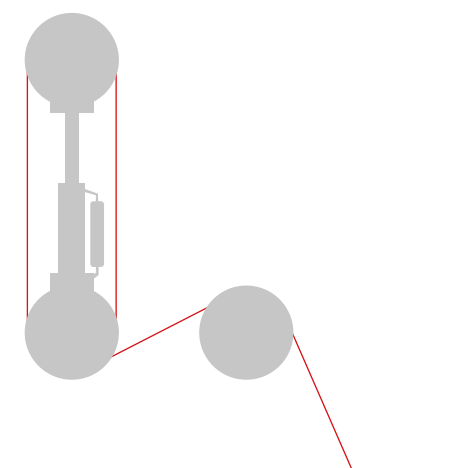
- Extremely high resistance to corrosion due to galvanized wires and the permanent lubrication provided by the PLASTFILL® insert.
- Less fatigue on sheaves due to the better distribution of pressure of the 8-strand construction.

Applications

The colors of the headlines coordinate with those of the ropes in the illustrations.

Other types of construction on request.

Marine riser tensioner



ROPES FOR DRILLING OPERATIONS

Extreme environmental conditions and bending over sheaves at high loads present challenging application scenarios for drilling lines on platforms around the world. The use of Teufelberger-Redaelli high performance steel wire ropes with PLASTFILL® insert significantly contributes to the high reliability of the platform.

Ropes

EXECUTION D6s

6-strand ordinary lay rope with SUPERFILL® compaction technology and PLASTFILL® insert, suited as a drill line.

- High breaking force for excellent operational reliability and safety due to SUPERFILL® compaction technology.
- Extremely robust and outstanding resistance to wear and tear thanks to PLASTFILL® insert.
- Optimum spooling results and to great ease of handling due to the flexibility of the rope.
- Longer service life due to reduced rope abrasion as a result of the rope's smooth surface.
- Permanent lubrication of the core due to PLASTFILL® insert.

EXECUTION Q6

6-strand ordinary lay rope with PLASTFILL® insert, suited as a drill line.

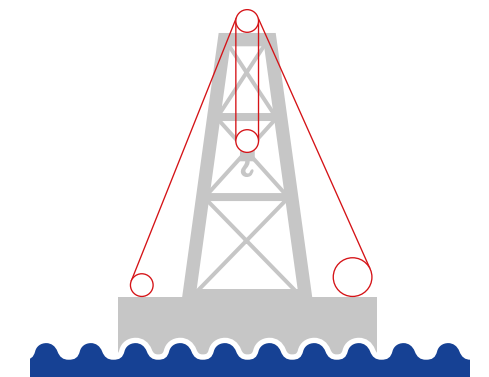
- Resistant to wear and extremely robust thanks to PLASTFILL® insert.
- Perfect spooling results due to the rope's flexibility.
- Non-compacted and cost-effective high performance rope for drilling operations.

Applications

The colors of the headlines coordinate with the those of the ropes in the illustrations.

Other types of construction on request.

Drilling operations



Customized solutions and products

Working together with you, the team from Teufelberger-Redaelli will determine the best solution.

EVOLUTION TK18

EVOLUTION TK18 is our high performance rope for large cranes and winches, mainly for the offshore industry in brutally harsh conditions. This rope offers excellent dimensional stability, high resistance to corrosion, and ideal lubrication, especially due to its Pro Active Core Lubrication in combination with a PLASTFILL® insert. EVOLUTION TK18 is the best choice for cranes in combination with active heave compensation.



Specifications

- Ordinary lay or lang's lay, right or left lay
 - 16 x K17F – EPIWRC (K), RCN 27
 - Pro Active Core Lubrication
- ✔ MULTILAYER SPOOLING
 - ✔ SUPERFILL®
 - ✔ PLASTFILL®

Technical data

Nominal Ø		Weight			Minimum breaking force at rope grade			
		In air	submerged		1770 N/mm²		1960 N/mm²	
mm	inch	kg/m	lbs/ft	kg/m	kN	lbs	kN	lbs
44.45	1 ¾	9.48	6.36	7.89	1,641	368,911	1,817	408,478
46		10.24	6.87	8.54	1,758	395,214	1,960	440,626
48		11.12	7.46	9.27	1,914	430,284	2,119	476,370
50		12.40	8.32	10.39	2,076	466,703	2,299	516,836
50.8	2	12.98	8.71	10.90	2,143	481,766	2,374	533,696
52		13.61	9.13	11.43	2,246	504,921	2,487	559,100
54	2 ⅛	14.48	9.72	12.13	2,422	544,487	2,682	602,938
56		15.28	10.25	12.75	2,605	585,627	2,884	648,349
58		16.80	11.27	14.09	2,794	628,116	3,094	695,559
60	2 ⅝	17.92	12.02	15.02	2,990	672,179	3,311	744,342
62		18.90	12.68	15.81	3,193	717,815	3,536	794,924
64		20.43	13.71	17.13	3,402	764,800	3,767	846,855
66		21.14	14.18	17.63	3,618	813,359	4,006	900,585
68		22.44	15.06	18.72	3,841	863,491	4,253	956,112
70	2 ¾	23.91	16.04	19.97	4,070	914,972	4,507	1,013,214
72		25.40	17.04	21.23	4,306	968,027	4,768	1,071,889
74		26.90	18.05	22.49	4,548	1,022,431	5,037	1,132,363
76	3	28.07	18.83	23.42	4,798	1,078,633	5,313	1,194,410
78		29.80	20.00	24.90	5,053	1,135,960	5,596	1,258,031
80		31.40	21.07	26.25	5,316	1,195,084	5,887	1,323,450

Other rope diameters are available on request.

EVOLUTION TK16

The result of a revolutionary design, high quality materials, and perfectly harmonized production processes, EVOLUTION TK16 combines all the characteristics a rotation resistant rope needs for your application: excellent durability and best flexibility!



Specifications

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

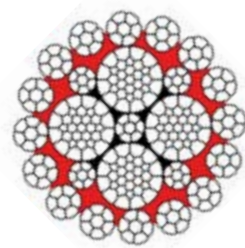
Technical data

Nominal Ø		Weight			Minimum breaking force at rope grade					
		In air	submerged		1770 N/mm²		1960 N/mm²		2160 N/mm²	
mm	inch	kg/m	lbs/ft	kg/m	kN	lbs	kN	lbs	kN	lbs
8	5/16	0.34	0.23		54	12,140	59	13,264	64	14,388
9		0.41	0.27		67	15,062	74	16,636	78	17,535
10		0.50	0.33		82	18,434	91	20,458	98	22,031
11		0.61	0.41		100	22,481	111	24,954	118	26,527
12		0.74	0.50		120	26,977	133	29,900	144	32,372
13		0.86	0.58		141	31,698	156	35,070	170	38,218
14	9/16	1.01	0.68		163	36,644	181	40,690	197	44,287
15		1.16	0.78		194	43,613	215	48,334	231	51,931
16	5/8	1.32	0.88		221	49,683	244	54,853	263	59,125
17		1.50	1.01		241	54,179	267	60,024	290	65,195
18		1.64	1.10		279	62,722	309	69,466	333	74,861
19	¾	1.85	1.24		312	70,140	345	77,559	371	83,404
20		2.08	1.39		338	75,985	374	84,079	401	90,148
21		2.26	1.52		373	83,854	413	92,846	444	99,815
22	7/8	2.51	1.68		408	91,722	452	101,614	487	109,482
24		2.94	1.97		483	108,583	535	120,273	580	130,389
25	1	3.15	2.11		537	120,722	595	133,761	639	143,653
26		3.49	2.34		567	127,467	627	140,955	675	151,746
27		3.74	2.51		609	136,909	674	151,521	725	162,986
28		4.05	2.71		655	147,250	725	162,986	780	175,351
28.57	1 ⅛	4.14	2.78		668	150,172	744	167,258	814	182,994
29		4.27	2.87		701	157,591	777	174,677	835	187,715
30		4.62	3.10		749	168,382	830	186,591	893	200,754
32	1 ¼	5.24	3.52		853	191,762	944	212,220	1,035	232,677
34		5.90	3.96		958	215,367	1,061	238,522	1,141	256,507
36		6.65	4.46		1,072	240,995	1,187	266,848	1,277	287,081
38	1 ½	7.35	4.93		1,237	278,089	1,369	307,763	1,472	330,919
40		8.13	5.46		1,317	296,073	1,458	327,771	1,568	352,500
42		8.97	6.02		1,452	326,423	1,608	361,493	1,729	388,695

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 facilitate particularly narrow manufacturing tolerances.



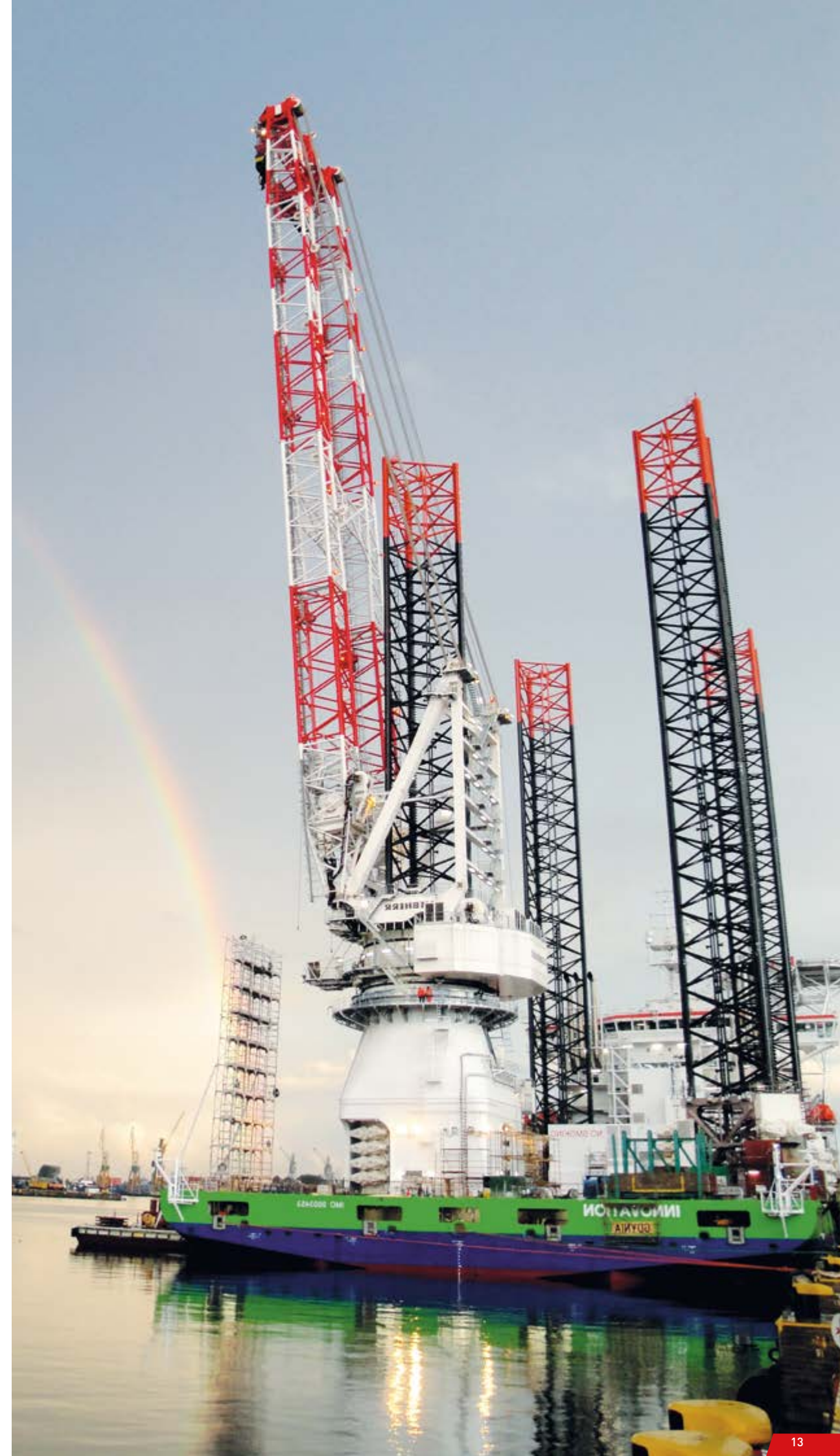
Specifications

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

Technical data

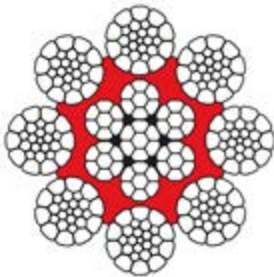
Nominal Ø		Weight		Minimum breaking force at rope grade	
		In air		1960 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs
8	5⁄16	0.34	0.23	62	13,938
9		0.41	0.27	79	17,760
10		0.50	0.33	97	21,806
11		0.61	0.41	117	26,303
12		0.74	0.50	140	31,473
13		0.86	0.58	164	36,869
14	9⁄16	1.01	0.68	190	42,714
15		1.16	0.78	218	49,008
16	5⁄8	1.32	0.88	248	55,753
17		1.50	1.01	280	62,947
18		1.64	1.10	314	70,590
19	3⁄4	1.85	1.24	350	78,683
20		2.08	1.39	388	87,226
21		2.26	1.52	428	96,218
22	7⁄8	2.51	1.68	469	105,435
24		2.94	1.97	559	125,668
25	1	3.15	2.11	623	140,056
26		3.49	2.34	656	147,475
27		3.74	2.51	707	158,940
28		4.05	2.71	760	170,855
28.57	1 1⁄8	4.14	2.78	792	178,049
29		4.27	2.87	816	183,444
30		4.62	3.10	873	196,258
32	1 ¼	5.24	3.52	993	223,235
34		5.90	3.96	1,121	252,011
36		6.65	4.46	1,257	282,585
38	1 ½	7.35	4.93	1,369	307,763
40		8.13	5.46	1,517	341,035
42		8.97	6.02	1,672	375,881

Other rope diameters are available on request. There is a minimum quantity requirement for customized products.



QS 816 V(G)

Extreme resistance to negative external influences distinguishes this rope from others. SUPERFILL® compaction technology developed by Teufelberger-Redaelli provides high breaking forces and highest safety in use. Compaction in the core and a PLASTFILL® insert ensure stability against lateral pressure.



Specifications

- QS 816 V in ordinary lay configuration, QS 816VG in lang's lay configuration, right or left lay
 - 10–42 mm: 8 x K26WS – EPIWRC (K), RCN 09
 - 44–50 mm: 8 x K31WS – EPIWRC (K), RCN 11
 - 52–70 mm: 8 x K42WS – EPIWRC (K), RCN >13
 - Use without rope swivel
- ✓ MULTILAYER SPOOLING
 - ✓ SUPERFILL®
 - ✓ PLASTFILL®

Technical data

Nominal Ø		Weight		Minimum breaking force at rope grade					
				1770 N/mm²		1960 N/mm²		2160 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs	kN	lbs	kN	lbs
10		0.46	0.31	81	18,210	89	20,008	98	22,031
11	7/16	0.55	0.37	97	21,806	107	24,055	118	26,527
12		0.69	0.46	117	26,303	129	29,000	143	32,148
13		0.81	0.54	141	31,698	156	35,070	172	38,667
14	9/16	0.93	0.62	162	36,419	179	40,241	198	44,512
15		1.06	0.71	185	41,590	205	46,086	226	50,807
16	5/8	1.20	0.81	210	47,210	232	52,156	256	57,551
17		1.35	0.91	235	52,830	261	58,675	287	64,520
18		1.55	1.04	263	59,125	291	65,419	321	72,164
19	3/4	1.71	1.15	302	67,892	335	75,311	369	82,954
20		1.89	1.27	330	74,187	365	82,055	402	90,373
21		2.15	1.44	374	84,079	414	93,071	457	102,738
22	7/8	2.34	1.57	408	91,722	451	101,389	497	111,730
23		2.54	1.70	445	100,040	492	110,606	543	122,071
24		2.75	1.85	467	104,986	517	116,226	570	128,141
25	1	2.97	1.99	518	116,451	574	129,040	633	142,304
26		3.19	2.14	555	124,769	615	138,257	678	152,420
27		3.51	2.36	595	133,761	659	148,149	727	163,436
28		3.76	2.52	656	147,475	726	163,211	800	179,847
28.57	1 1/8	4.04	2.71	672	151,072	745	167,483	820	184,343
29		3.98	2.67	694	156,017	768	172,653	847	190,413

Other rope diameters are available on request.



Technical data

Nominal Ø		Weight		Minimum breaking force at rope grade					
				1770 N/mm²		1960 N/mm²		2160 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs	kN	lbs	kN	lbs
30		4.37	2.93	764	171,754	846	190,188	897	201,654
32	1 1/4	4.90	3.29	864	194,235	957	215,142	1,072	240,995
34		5.59	3.75	945	212,444	1,046	235,150	1,153	259,205
36		6.36	4.27	1,071	240,770	1,186	266,623	1,284	288,655
38	1 1/2	7.03	4.72	1,222	274,717	1,354	304,391	1,431	321,702
40		7.81	5.24	1,342	301,694	1,486	334,066	1,545	347,330
42		8.60	5.77	1,482	333,167	1,641	368,911	1,736	390,268
44	1 3/4	9.27	6.22	1,596	358,795	1,768	397,462		
46		10.30	6.91	1,760	395,664	1,949	438,153		
48		10.78	7.23	1,848	415,447	2,050	460,858		
50	2	11.60	7.78	2,016	453,215	2,232	501,774		
52		12.50	8.39	2,180	490,083	2,414	542,689		
54	2 1/8	13.91	9.33	2,287	514,138	2,532	569,216		
56		14.50	9.73	2,529	568,542	2,850	640,705		
58		15.60	10.47	2,712	609,682	3,004	675,326		
60	2 3/8	16.70	11.21	2,903	652,620	3,214	722,536		
62		17.80	11.94	3,099	696,683	3,432	771,544		
64		19.74	13.25	3,303	742,544	3,657	822,126		
66	2 5/8	20.63	13.84	3,495	785,707	3,870	870,011		
68		21.40	14.36	3,728	838,088	4,128	928,011		
70	2 3/4	22.70	15.23	3,951	888,220	4,375	983,539		

Other rope diameters are available on request.

PERFECTION M8

Galvanized lang’s lay rope used for marine riser tensioners. The strong point of this rope is its excellent performance under extreme bending fatigue loads. SUPERFILL® compaction technology ensures highest breaking forces and thus maximum safety levels during operation. The application of this technology – even in the core – gives this rope optimum dimensional stability to lateral pressure and high bending fatigue life.



Specifications

- lang’s lay, right or left lay
 - 8 x K36WS EPIWRC, RCN 13
 - Use without rope swivel
- ✗ MULTILAYER SPOOLING
 - ✓ SUPERFILL®
 - ✓ PLASTFILL®

Technical data

Nominal Ø		Weight		Minimum breaking force at rope grade			
		In air		1770 N/mm²		1960 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs	kN	lbs
38.1	1 ½	6.50	4.36	1,064	239,197	1,178	264,825
44.45	1 ¾	9.14	6.13	1,600	359,694	1,770	397,912
50.8	2	11.90	7.98	1,805	405,780	1,998	449,168
54.0	2 ⅛	13.41	9.00	2,135	479,967	2,348	527,851
57.15	2 ¼	14.50	9.73	2,452	551,187	2,916	655,543
63.5	2 ½	19.48	13.07	3,250	730,629	3,600	809,312
64.0		19.48	13.07	3,250	730,629	3,600	809,312
69.85	2 ¾	23.12	15.51	3,798	853,824	3,960	890,243
73.02	2 ⅞	24.15	16.20	3,971	892,716	4,326	972,523

Other rope diameters are available on request.

EXECUTION D6s

Flexibility, resistance to mechanical wear and high breaking force: these are the qualities a drill line must possess. This 6-strand rope with SUPERFILL® compaction technology and a PLASTFILL® insert combines all these characteristics for perfect drilling operations.

Specifications

- Ordinary lay, right or left lay
 - 30–50 mm: 6 x K26WS-EPIWRC, RCN 06
 - 50–56 mm: 6 x K31WS-EPIWRC, RCN 08
 - Use without rope swivel
- ✓ MULTILAYER SPOOLING
 - ✓ SUPERFILL®
 - ✓ PLASTFILL®



Technical data

Nominal Ø		Weight		Minimum breaking force at rope grade			
		In air		1960 N/mm²		2160 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs	kN	lbs
34.9	1 ⅜	5.40	3.62	1,024	230,146	1,106	248,706
38.1	1 ½	6.40	4.29	1,220	274,285	1,318	296,405
41.27	1 ⅝	7.54	5.06	1,432	321,926	1,547	347,779
44.45	1 ¾	8.95	6.01	1,661	373,332	1,795	403,440
47.6	1 ⅞	9.98	6.70	1,904	428,121	2,058	462,647
50.8	2	11.50	7.72	2,197	493,869	2,344	526,942
54.0	2 ⅛	13.00	8.72	2,451	550,985	2,649	595,420
56.0		13.87	9.31	2,636	592,554	2,848	640,341

Other rope diameters are available on request.

EXECUTION D6

Highest reliability of the platform is the main target! This Teufelberger-Redaelli high performance steel wire rope with PLASTFILL® insert for permanent lubrication of the core delivers into high resistance to wear.

Specifications

- Ordinary lay, right or left lay
 - 6 x 26WS EPIWRC, RCN 06
 - Use without rope swivel
- ✓ MULTILAYER SPOOLING
 - ✗ SUPERFILL®
 - ✓ PLASTFILL®



Technical data

Nominal Ø		Weight		Minimum breaking force at rope grade			
		In air		1960 N/mm²		2160 N/mm²	
mm	inch	kg/m	lbs/ft	kN	lbs	kN	lbs
34.9	1 ⅜	5.00	3.36	881	198,057	920	206,824
38.1	1 ½	5.90	3.96	1,048	235,600	1,096	246,391
44.45	1 ¾	8.70	5.84	1,426	320,578	1,492	335,415
47.6	1 ⅞	9.22	6.19	1,636	367,787	1,710	384,423
50.8	2	10.72	7.19	1,862	418,594	1,948	437,928

Other rope diameters are available on request.

DISCARD CRITERIA

The discard criteria for Teufelberger-Redaelli special steel wire ropes are defined according to:

- ISO 4309
- API 2D FIFTH EDITION

This includes: reduction of rope diameter, corrosion and wire breaks. For assessing the discard condition based on wire breaks, the rope category number (RCN) is used. For Teufelberger-Redaelli special steel wire ropes, this number is listed in the following tables. For further details regarding the discard criteria and general handling for wire ropes to ISO 4309 or API 2D FIFTH EDITION, see the “Application Handbook – High Performance Offshore Ropes” at www.teufelberger-redaelli.com

Rotation resistant ropes

Type of design	Diameter range mm	RCN*	n**
EVOLUTION TK16	9-30	23-1	96
	32-42	23-2	112
EVOLUTION TK16 ^{plus}	9-30	23-1	96
	32-42	23-2	112
EVOLUTION TK18	44-80	27	272

Non-rotation resistant ropes

Type of design	Diameter range mm	RCN*	n**
QS 816 V(G)	10-42	9	208
	44-50	11	248
	50.8-70	>13	336
PERFECTION M8	38-74	13	288
EXECUTION D6s	30-50	6	156
	50-56	8	186
EXECUTION D6	30-52	6	156

* 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

Highest Standards

Comprehensive quality testing of primary materials and final products as well as the certification to ISO 9001 guarantee the consistent high quality of our steel wire ropes.

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