

Evolution TK® 16

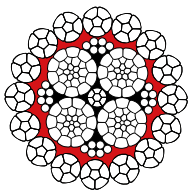
A manufacturing process that has been refined down to the smallest detail transforms highest-quality raw materials into our Evolution TK® 16. This rope impresses with its high flexibility and extreme durability.

Specifications

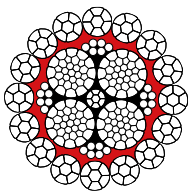
- Ordinary or Lang's lay, right or left-handed
- 8-30 mm: 16xK6-EPIWRC(K), RCN 23-1, n=96
- 31.75-42 mm: 16xK7-EPIWRC(K), RCN 23-2, n=112
- Filling factor f=0.74
- ✓ Multi-layer spooling
- ✓ SUPERFILL®
- ✓ PLASTFILL®

Segments

- Building & construction industry
- Offshore industry

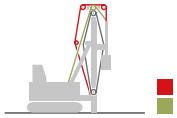


Evolution TK® 16
8-30 mm

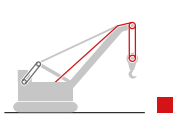


Evolution TK® 16
31.75-42 mm

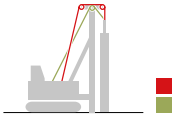
Applications



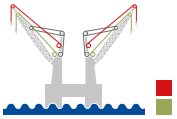
Rotary drilling rig



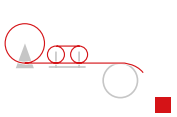
Duty cycle crawler



Piling rig



Ship & platform crane



Subsea winch

■ Hoist rope, Winch rope ■ Auxiliary hoist rope

Advantages

- ✓ Extremely resistant to corrosion, external environmental influences, and the ingress of dirt thanks to the PLASTFILL® insert
- ✓ Excellent spooling behavior due to very high dimensional stability under lateral pressure, even in multi-layer spooling systems
- ✓ Highest operational safety due to high breaking forces and excellent torsional characteristics made possible by the harmoniously balanced rope structure
- ✓ Longer lifetime and maximized cost-effectiveness of rope-guiding components thanks to the wear-optimized and rope-friendly SUPERFILL® compaction of all strands
- ✓ Safe protection of core lubrication thanks to PLASTFILL® insert
- ✓ The SUPERFILL® compaction technology ensures consistently small diameter tolerances and perfect spooling behavior, even with long rope lengths

Technical specifications

Construction	Nominal ø		Rope length mass		MBF at rope grade					
					1770		1960		2160	
	mm	inch	kg/m	lbs/ft	kN	lbf	kN	lbf	kN	lbf
16xK6-EPIWRC(K) RCN 23-1, n=96	8	5/16	0.31	0.21	56	12,589	62	13,938	64	14,388
	9		0.40	0.27	71	15,961	79	17,760	81	18,210
	10		0.50	0.33	88	19,783	97	21,806	100	22,481
	11	7/16	0.60	0.40	106	23,830	117	26,303	121	27,202
	12		0.73	0.49	126	28,326	140	31,473	144	32,372
	12.7	1/2	0.81	0.54	142	31,923	157	35,295	162	36,419
	13		0.85	0.57	148	33,272	164	36,869	170	38,218
	14	9/16	0.99	0.67	172	38,667	190	42,714	197	44,287
	15		1.14	0.77	197	44,287	218	49,008	231	51,931
	16	5/8	1.29	0.87	224	50,357	250	56,202	263	59,125
	17		1.45	0.97	253	56,877	280	62,947	290	65,195
	18		1.60	1.08	284	63,846	314	70,590	333	74,861
	19	3/4	1.81	1.22	316	71,040	350	78,683	371	83,404
	20		2.03	1.37	350	78,683	388	87,226	401	90,148
	21		2.22	1.49	387	87,001	428	96,218	444	99,815
	22		2.49	1.68	424	95,319	469	105,435	487	109,482
	22.23	7/8	2.48	1.66	433	97,342	479	107,683	495	111,280
	23		2.65	1.78	463	104,087	513	115,327	530	119,149
	24		2.88	1.94	505	113,529	559	125,668	580	130,389
	25		3.16	2.12	546	122,746	605	136,009	639	143,653
	25.4	1	3.24	2.17	565	127,017	626	140,730	644	144,777
	26		3.35	2.25	592	133,087	656	147,475	675	151,746
	27		3.67	2.47	638	143,428	707	158,940	725	162,986
	28		3.93	2.64	686	154,219	760	170,855	780	175,351
	28.58	1 1/8	4.07	2.74	715	160,738	792	178,049	814	182,994
	29		4.14	2.78	737	165,684	816	183,444	835	187,715
	30		4.52	3.03	788	177,149	873	196,258	893	200,754
16xK7-EPIWRC(K) RCN 23-2, n=112	31.75	1 1/4	5.01	3.36	883	198,506	978	219,863	1,010	227,057
	32		5.09	3.42	897	201,654	993	223,235	1,035	232,677
	34		5.78	3.88	1,022	229,755	1,141	256,507	1,195	268,647
	35	1 3/8	6.08	4.09	1,073	241,220	1,188	267,073	1,210	272,019
	36		6.39	4.30	1,135	255,158	1,257	282,585	1,277	287,081
	38	1 1/2	7.17	4.82	1,236	277,864	1,369	307,763	1,472	330,919
	40		7.94	5.33	1,370	307,988	1,517	341,035	1,568	352,500
	42		8.80	5.92	1,510	339,462	1,672	375,881	1,729	388,695

Standard tolerance: +2 % to +4 %, other tolerance ranges and rope diameters are available upon request.
The values are provided for guidance only. The metric figures shall prevail. The rope cross-section depicts a typical design and may vary within the product line.
Subject to further developments which may lead to changes in technical specifications. Subject to changes and errors.

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