



Evolution Q9XT

It is especially on cranes used to move bulk goods where the Evolution Q9XT high-performance steel wire rope developed by Teufelberger-Redaelli unleashes its full performance potential. Its innovative, evolutionary structure with 4 core strands makes it extremely durable and long-lived.

Specifications

- Ordinary lay, right or left-handed
- 20-54 mm: 8xK31WS – EPIWRC, RCN 11, n=248
- Filling factor $f=0.68$
- Use without swivel
- ✓ Radial elastic core
- ✓ SUPERFILL®
- ✓ PLASTFILL®

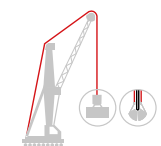
Advantages

- ✓ Trouble-free operation: Excellent absorption of shock loads due to eliminated king strand
- ✓ Extremely long lifetime: The high RCN number allows a large number of outer wire breaks
- ✓ Improved visibility of point of discard from the outside: Four center strands reduce the risk of damaging the rope core
- ✓ Long service life due to wear-optimized design and core-protecting PLASTFILL® insert

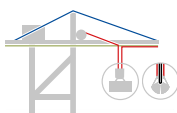
Segments



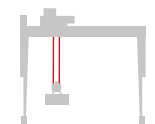
Applications



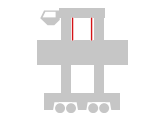
Mobile harbor crane



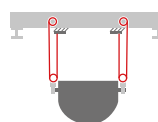
Ship-to-shore crane
& ship unloader



ASC, RTG, RMG



Straddle Carrier



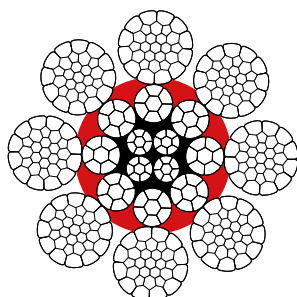
Ladle and foundry
crane

Technical specifications

Construction	Nominal Ø		Rope length mass		MBF at rope grade			
	mm	inch	kg/m	lbs/ft	1770 kN	1960 lbf	1960 kN	1960 lbf
8xK31WS-EPIWRC(K) RCN 11, n=248	20		1.82	1.22	311	69,916	345	77,559
	21		2.02	1.36	343	77,109	380	85,427
	22		2.22	1.49	377	84,753	417	93,745
	22.23	7/8	2.26	1.52	385	86,551	426	95,769
	23		2.42	1.63	412	92,621	456	102,513
	24		2.64	1.77	448	100,714	497	111,730
	25		2.86	1.92	487	109,482	539	121,172
	25.4	1	2.96	1.99	502	112,854	556	124,994
	26		3.09	2.08	526	118,250	583	131,064
	27		3.34	2.24	568	127,691	628	141,180
	28		3.61	2.42	610	137,133	676	151,971
	28.58	1 1/8	3.74	2.52	636	142,978	704	158,265
	29		3.85	2.59	655	147,250	725	162,986
	30		4.12	2.77	701	157,591	776	174,452
	31.75	1 1/4	4.62	3.10	785	176,475	869	195,359
	32		4.69	3.15	797	179,173	883	198,506
	34		5.30	3.56	900	202,328	997	224,135
	35		5.61	3.77	954	214,468	1,056	237,398
	36		5.94	3.99	1,009	226,832	1,117	251,112
	38		6.62	4.45	1,124	252,685	1,245	279,887
	40		7.33	4.93	1,246	280,112	1,379	310,012
	41		7.70	5.17	1,309	294,275	1,449	325,748
	42		8.10	5.44	1,373	308,663	1,521	341,934
	44		8.88	5.97	1,507	338,787	1,669	375,206
	44.45	1 3/4	9.05	6.08	1,538	345,756	1,703	382,850
	46		9.69	6.51	1,647	370,260	1,824	410,052
	48		10.55	7.09	1,794	403,307	1,986	446,471
	50		11.45	7.70	1,946	437,478	2,155	484,463
	50.8	2	11.82	7.94	2,009	451,641	2,225	500,200
	52		12.39	8.32	2,105	473,223	2,331	524,030
	54	2 1/8	13.39	9.00	2,270	510,316	2,514	565,170

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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