YOUR TRUSTED SOURCE FOR INDUSTRIAL WIRE ROPES





We supply industrial wire rope products for safety-critical, heavy-load applications across construction, mining, ports, and elevator systems.

Our focus is on **consistent product specification, application suitability, and reliable supply**.

ALLIANCE SATELLITE INDUSTRIAL SUPPLIER

Crane Ropes

Crane ropes are subjected to continuous load cycles, dynamic tension, and demanding operating conditions. Product selection must account for lifting configuration, operating environment, fatigue resistance, and load performance.

We supply crane wire ropes sourced from established manufacturers with experience in heavy-duty lifting applications across industrial and port sectors.

Lifting Cranes

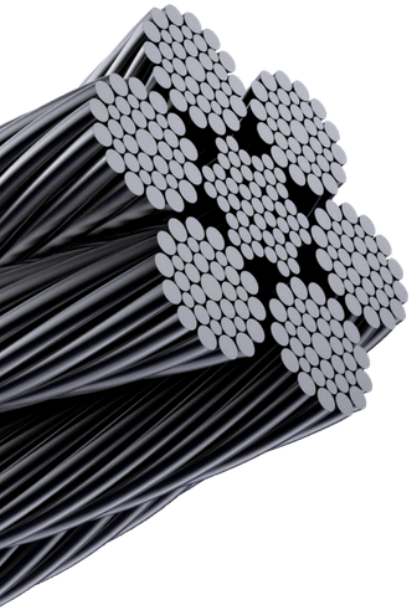


Wire ropes designed for general lifting and hoisting systems used in construction, industrial handling, and infrastructure projects.

Port Cranes

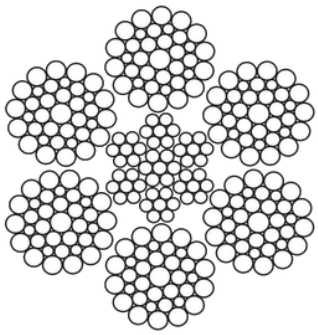


Wire ropes engineered for high-cycle lifting operations in port and cargo handling environments where durability and operational reliability are critical.



Container crane rope

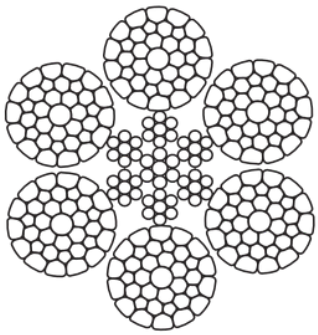
- For shorecrane (RTG) lifting, trolley traction and pitching
- For gantry crane (RMG) lifting
- Excellent fatigue and abrasion resistance
- Exceptional structural stability



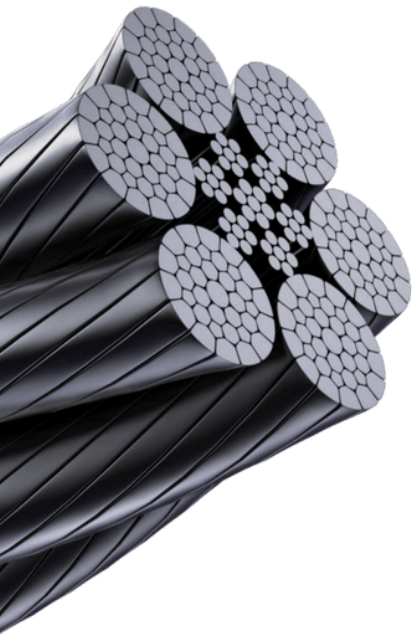
● 6X36WS-IWRC

PORT

- For shorecrane (RTG) lifting, trolley traction and pitching
- For gantry crane (RMG) lifting
- Higher tension
- Excellent fatigue and abrasion resistance
- Exceptional structural stability



★ 6XK36WS-IWRC

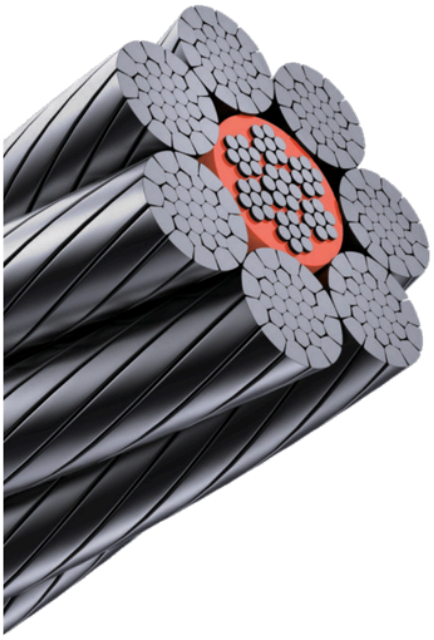


* Please contact us for :

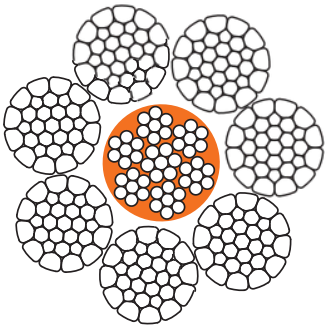
1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)		
			1770 Grade	1960 Grade	2160 Grade
28	●	3.340	494	547	603
	★	3.622	622	688	735
30	●	3.834	567	628	692
	★	4.158	706	782	843
32	●	4.362	645	715	787
	★	4.731	800	886	960
34	●	4.925	728	807	889
	★	5.341	893	992	1,080
36	●	5.521	817	904	997
	★	5.988	1,000	1,110	1,180
38	●	6.151	910	1,008	1,110
	★	6.671	1,110	1,220	1,310
40	●	6.816	1,008	1,116	1,230
	★	7.392	1,160	1,290	1,320
42	●	7.515	1,112	1,231	1,356
	★	8.150	1,280	1,420	1,455
44	●	8.247	1,220	1,351	1,489
	★	8.944	1,350	1,500	1,590
46	●	9.014	1,333	1,476	1,627
	★	9.776	1,540	1,700	1,740
48	●	9.815	1,452	1,608	1,772
	★	10.644	1,690	1,880	1,890
50	●	10.650	1,575	1,744	1,922
	★	11.550	1,810	1,970	2,050
52	●	11.519	1,704	1,887	2,079
	★	12.492	1,920	2,130	2,220
56	●	13.359	1,976	2,188	2,411
	★	14.488	2,230	2,470	2,574

Diameter (mm)	Nominal unit weight (kg/m)	Minimum breaking force (kN)		
		1770 Grade	1960 Grade	2160 Grade
24	2.298	316	350	386
26	2.697	371	411	453
28	3.128	430	476	525
30	3.591	494	547	603
32	4.086	562	622	686
34	4.612	634	702	774
36	5.171	711	787	868
38	5.762	792	877	967
40	6.384	878	972	1,070
42	7.038	968	1,070	1,180



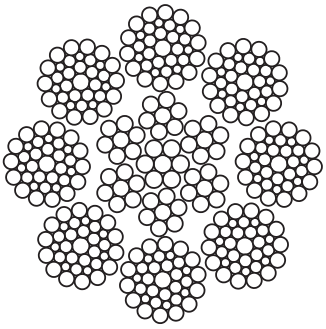
Container crane rope



FLEX-7CC

- For shorecrane (RTG) lifting and trolley traction
- For gantry crane (RMG) lifting
- Unique 7–strand design
- Higher strength, longer service life
- Optimal abrasion and fatigue resistance
- Lower sheave and drum friction
- Injection of polymer plastic into IWRC can disperse internal stress and abrasion, and keep in lubricant in the IWRC

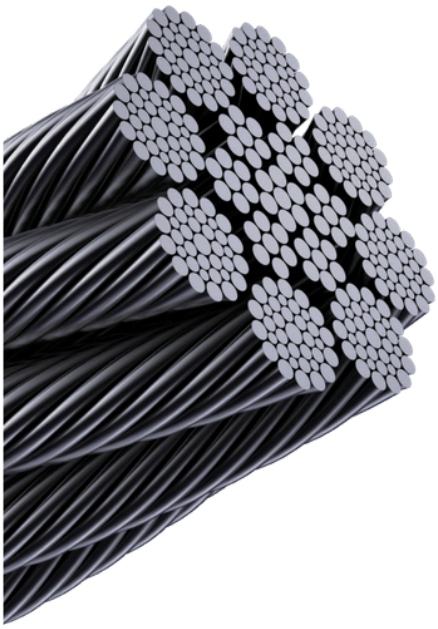
PORT



- For shorecrane (RTG) lifting and trolley traction
- For gantry crane (RMG) lifting
- Excellent abrasion and fatigue resistance
- Exceptional structural stability

● 8X36WS-IWRC

★ 8XK36WS-IWRC

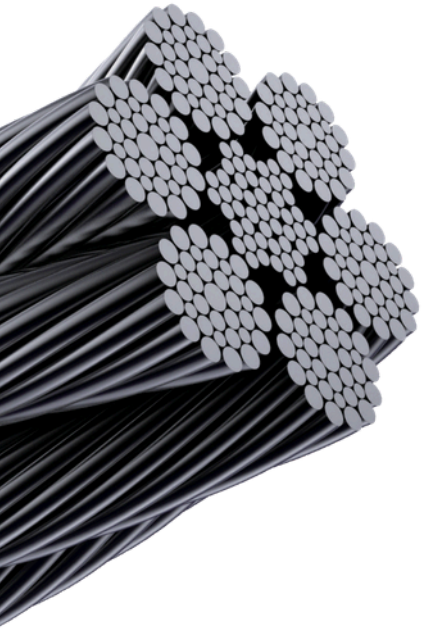


*Please contact us for :

1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

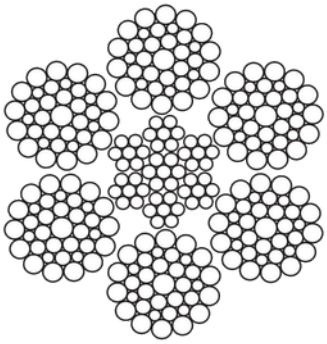
Diameter (mm)	Nominal unit weight (kg/m)	Minimum breaking force (kN)	
		1770 Grade	1960 Grade
20	1.854	287	318
22	2.260	345	382
24	2.671	410	454
26	3.134	479	530
28	3.629	552	611
30	4.172	632	700
32	4.747	717	794
34	5.359	807	894
36	6.009	905	1,002
38	6.695	1,008	1,110
40	7.418	1,120	1,230

Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)		
			1770 Grade	1960 Grade	2160 Grade
22	●	2.159	305	338	372
	★	2.375	377	418	444
24	●	2.569	363	402	443
	★	2.826	462	511	544
26	●	3.015	426	472	520
	★	3.317	546	605	641
28	●	3.497	494	547	603
	★	3.847	622	688	735
30	●	4.014	567	628	692
	★	4.416	706	782	843
32	●	4.567	645	715	787
	★	5.024	800	886	960
34	●	5.156	728	807	889
	★	5.672	893	992	1,082
36	●	5.780	817	904	997
	★	6.358	1,000	1,110	1,180
38	●	6.440	910	1,008	1,110
	★	7.085	1,110	1,220	1,310
40	●	7.136	1,008	1,116	1,230
	★	7.850	1,160	1,290	1,320



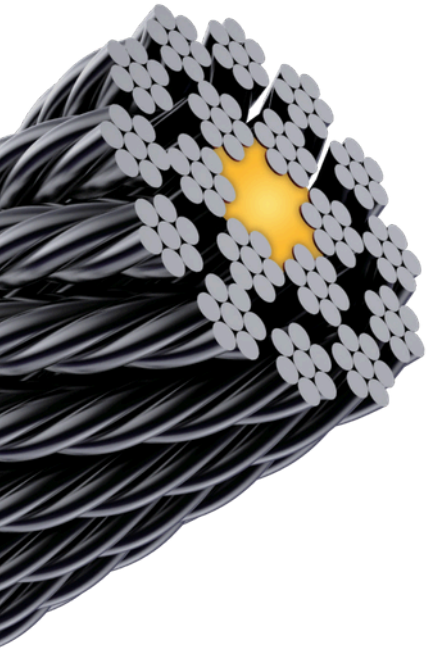
Ship-unloader rope

- For ship–unloder lifting and grab bucket open–closing
- Used on portal crane
- Excellent fatigue and abrasion resistance
- Exceptional structural stability

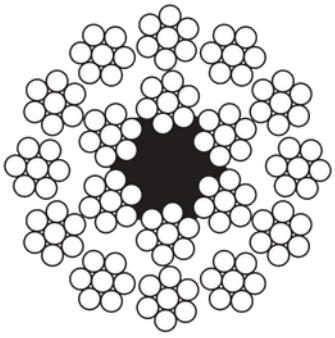


● 6X36WS-IWRC
★ 6XK36WS-IWRC

PORT



- Used on portal crane
- Used on stockyard mobile crane
- Good anti-rotation
- Good softness



18X7-FC

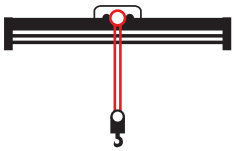
* Please contact us for :

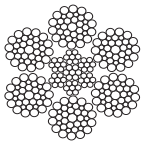
1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)		
			1770 Grade	1960 Grade	2160 Grade
14	●	0.835	124	137	151
	★	0.906	161	177	192
16	●	1.091	161	179	197
	★	1.183	206	228	239
18	●	1.380	204	226	249
	★	1.497	260	289	313
20	●	1.704	252	279	308
	★	1.848	316	350	373
22	●	2.062	305	338	372
	★	2.236	377	418	444
24	●	2.454	363	402	443
	★	2.661	462	511	544
26	●	2.880	426	472	520
	★	3.123	546	605	641
28	●	3.340	494	547	603
	★	3.622	622	688	735
30	●	3.834	567	628	692
	★	4.158	706	782	843
32	●	4.362	645	715	787
	★	4.731	800	886	960
34	●	4.925	728	807	889
	★	5.341	893	992	1,080
36	●	5.521	817	904	997
	★	5.988	1,000	1,110	1,180
38	●	6.151	910	1,008	1,110
	★	6.671	1,110	1,220	1,310
40	●	6.816	1,008	1,116	1,230
	★	7.392	1,160	1,290	1,320
42	●	7.515	1,112	1,231	1,356
	★	8.150	1,280	1,420	1,455
46	●	9.014	1,333	1,476	1,627
	★	9.776	1,540	1,700	1,740
50	●	10.650	1,575	1,744	1,922
	★	11.550	1,810	1,970	2,050

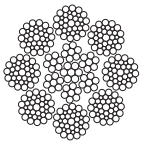
Wire rope for industrial cranes & equipment

|Indoor and outdoor rail crane/Coke dry quenching elevator/Cable crane

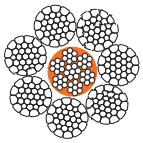




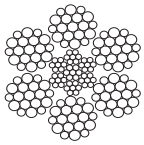
6X36WS
(K/IWRC/EP)



8X36WS
(K/IWRC/EP)

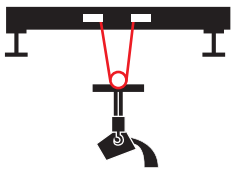


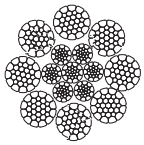
FLEX-7CC



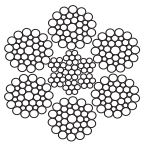
6X19W
(Refer to the Comprehensive Wire Rope Manual)

|Ladle crane in steel mill/Feeding crane

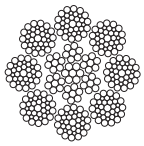




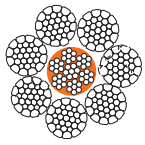
FLEX-MAX
(133/182)



6X36WS
(K/IWRC/EP)

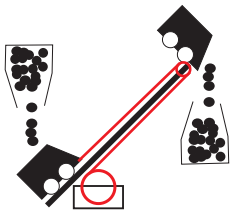


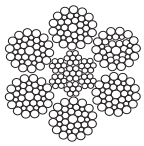
8X36WS
(K/IWRC/EP)



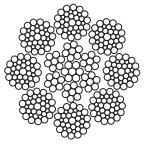
FLEX–7CC

|Blast furnace loading crane in iron mill

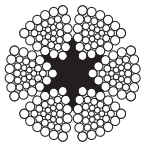




6X36WS
(K/IWRC/EP)

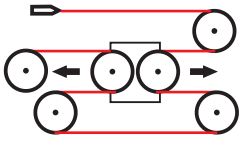


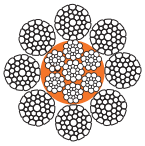
8X36WS
(K/IWRC/EP)



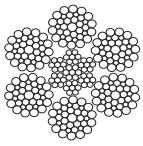
Flattened strand
(6X25/28TS)
(Refer to the Comprehensive Wire Rope Manual)

|Traction and lifting system for cold rolling and acid cleaning

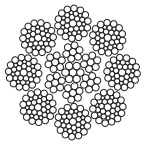




FLEX-8CC

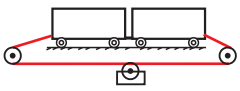


6X36WS
(K/IWRC/EP)



8X36WS
(K/IWRC/EP)

|Traction system for freight train





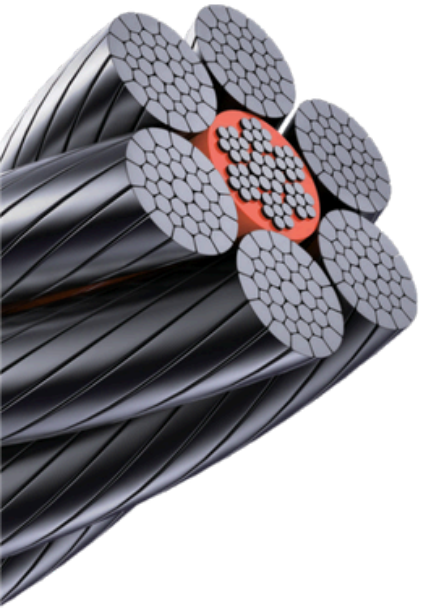
6X36WS
(K/FC/IWRC)



8X36WS
(K/FC/IWRC)

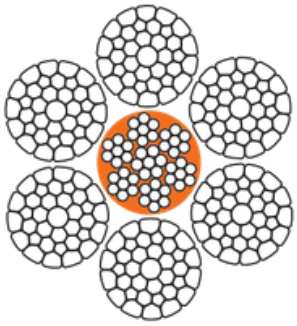
Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)		
			1770 Grade	1960 Grade	2160 Grade
18	●	1.474	223	241	271
	★	1.610	247	288	323
20	●	1.820	278	299	336
	★	1.988	308	358	401
22	●	2.202	337	368	413
	★	2.405	375	436	489
24	●	2.621	401	439	493
	★	2.863	443	516	583
26	●	3.076	469	514	576
	★	3.360	531	612	686
28	●	3.567	549	596	646
	★	3.896	610	703	788
32	●	4.659	711	765	829
	★	5.089	788	899	1,000
36	●	5.897	906	977	1,060
	★	6.441	1,000	1,140	1,270
40	●	7.280	1,112	1,200	1,300
	★	7.952	1,235	1,390	1,521
44	●	8.809	1,330	1,450	1,570
	★	9.622	1,494	1,560	1,719
48	●	10.483	1,580	1,720	1,870
	★	11.450	1,778	1,850	2,038

Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)		
			1770 Grade	1960 Grade	2160 Grade
18	●	1.358	188	208	230
	★	1.649	240	266	299
20	●	1.676	232	257	283
	★	2.036	303	335	376
22	●	2.028	281	311	343
	★	2.464	366	405	454
24	●	2.413	334	370	408
	★	2.932	435	482	540
26	●	2.832	392	435	479
	★	3.441	517	572	637
28	●	3.285	455	504	555
	★	3.991	598	662	743
32	●	4.291	594	658	725
	★	5.212	776	859	964
36	●	5.430	752	833	918
	★	6.597	980	1,085	1,218
40	●	6.704	929	1,030	1,130
	★	8.144	1,210	1,340	1,503
42	●	7.391	1,020	1,130	1,250
	★	8.979	1,300	1,445	1,650



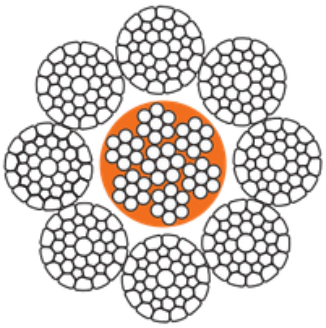
6/8-compacted-strand EPIWRC rope

- Higher tension
- Excellent abrasion, fatigue and compression resistance
- Good structural stability
- Longer service life
- Plastic layer formed between core and outer strands can disperse inner pressure and friction and keep in lubricant in the IWRC



● 6XK36WS-IWRC
● 6XK36WS-EPIWRC

- Higher tension
- Excellent abrasion, fatigue and compression resistance
- Larger surface contact area to lower sheave and drum friction
- Longer service life
- Plastic layer formed between core and outer strands can disperse inner pressure and friction and keep in lubricant in the IWRC



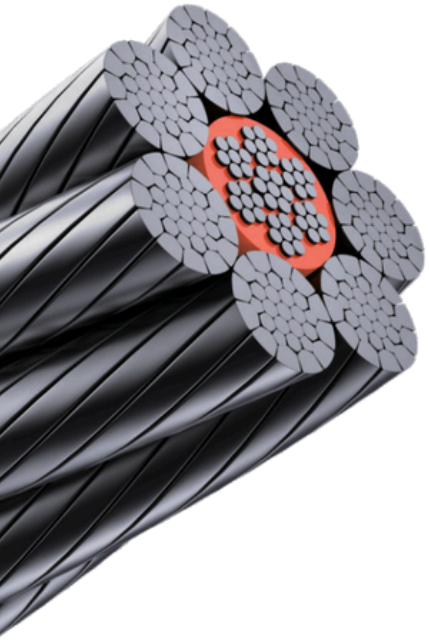
★ 8XK36WS-IWRC
★ 8XK36WS-EPIWRC



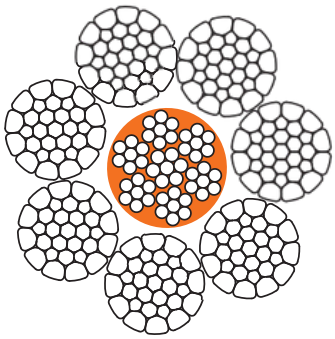
*Please contact us for :

1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

Diameter (mm)		Nominal unit weight (kg/m)	Minimum breaking force (kN)	
			1770 Grade	1960 Grade
16	●	1.209	185	205
18	●	1.501	232	257
19	●	1.673	259	287
20	●	1.854	287	318
22	●	2.260	345	382
24	●	2.671	410	454
26	●	3.134	479	530
28	●	3.629	552	611
	★	3.895	590	655
30	●	4.172	632	700
	★	4.471	672	745
32	●	4.747	717	794
	★	5.087	765	844
34	●	5.359	807	894
	★	5.743	850	945
36	●	6.009	905	1,002
	★	6.439	955	1,060
38	●	6.695	1,008	1,110
	★	7.174	1,060	1,180
40	●	7.418	1,120	1,230
	★	7.949	1,160	1,290
42	●	8.178	1,230	1,360
	★	8.764	1,280	1,420
44	●	8.975	1,350	1,490
	★	9.619	1,360	1,500
46	●	9.809	1,470	1,630
	★	10.513	1,540	1,700
48	●	10.680	1,600	1,770
	★	11.447	1,700	1,880
50	●	11.588	1,730	1,920
	★	12.421	1,810	2,010
52	●	12.533	1,880	2,080
	★	13.434	1,920	2,130
54	●	13.515	2,020	2,240
	★	14.487	2,080	2,300
56	●	14.534	2,180	2,410
	★	15.581	2,230	2,470



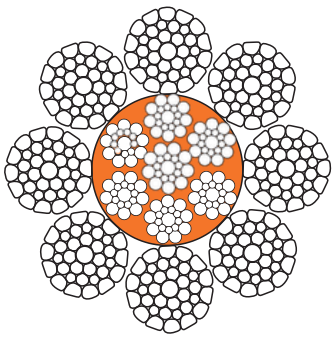
FLEX-7CC



- Higher tension
- Optimal combination of abrasion and fatigue resistance
- Longer service life
- Lower sheave and drum friction
- EPIWRC: polymer plastic injected into IWRC can disperse inner pressure and friction; the plastic layer can also keep in lubricant in the IWRC

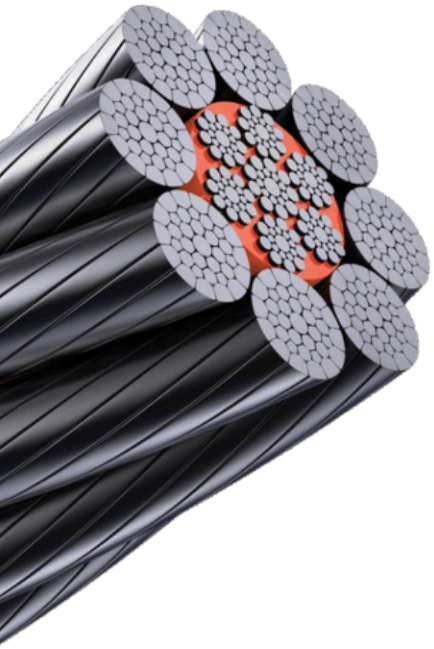
● FLEX-7CC

FLEX-8CC



- Higher tension
- Optimal combination of abrasion and fatigue resistance
- Longer service life
- Lower sheave and drum friction
- EPIWRC: polymer plastic injected into IWRC can disperse inner pressure and friction; the plastic layer can also keep in lubricant in the IWRC

★ FLEX-8CC

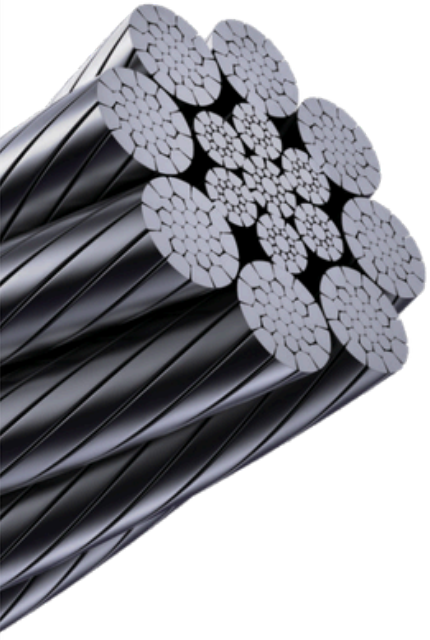


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1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

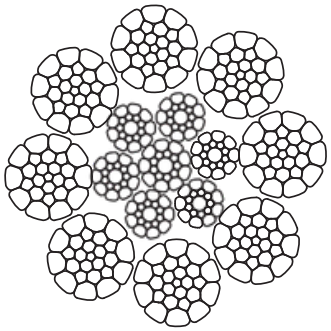
Diameter (mm)		Nominal unit weight (kg/m)		Minimum breaking force (kN)		
		IWRC	EPIWRC	1770 Grade	1960 Grade	2160 Grade
14	●	0.906	0.913	161	177	192
	★	0.961	0.974	161	177	192
16	●	1.183	1.192	206	228	239
	★	1.256	1.272	206	228	239
18	●	1.497	1.509	260	289	313
	★	1.590	1.610	260	289	313
20	●	1.848	1.863	316	350	373
	★	1.962	1.987	316	350	373
22	●	2.236	2.254	377	418	444
	★	2.375	2.405	377	418	444
24	●	2.661	2.682	462	511	544
	★	2.826	2.862	462	511	544
26	●	3.123	3.148	546	605	641
	★	3.317	3.359	546	605	641
28	●	3.622	3.651	622	688	735
	★	3.847	3.895	622	688	735
32	●	4.731	4.769	800	886	960
	★	5.024	5.087	800	886	960
36	●	5.988	6.036	1,000	1,110	1,180
	★	6.358	6.439	1,000	1,110	1,180
40	●	7.392	7.451	1,160	1,290	1,320
	★	7.850	7.949	1,160	1,290	1,320
44	●	8.944	9.015	1,350	1,500	1,590
	★	9.499	9.619	1,350	1,500	1,590
48	●	10.644	10.729	1,690	1,880	1,890
	★	11.304	11.447	1,690	1,880	1,890
52	●	12.492	12.592	1,920	2,130	2,220
	★	13.266	13.434	1,920	2,130	2,220
56	●	14.488	14.603	2,230	2,470	2,574
	★	15.386	15.581	2,230	2,470	2,574
60	●	16.632	16.764	2,560	2,835	2,955
	★	17.663	17.886	2,560	2,835	2,955
64	●	18.923	19.073	2,910	3,225	3,360
	★	20.096	20.351	2,910	3,225	3,360
68	●	21.362	21.532	3,280	3,640	3,795
	★	22.687	22.974	3,280	3,640	3,795
72	●	23.950	24.140	3,680	4,080	4,255
	★	25.434	25.756	3,680	4,080	4,255
76	●	26.685	26.896	4,100	4,550	4,740
	★	28.339	28.698	4,100	4,550	4,740
80	●	29.567	29.802	4,550	5,040	5,250
	★	31.400	31.798	4,550	5,040	5,250

★IWRC-independent wire rope core; EPIWRC-plastic injected IWRC.

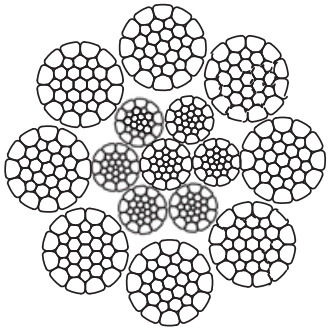


| FLEX-MAX

- Extremely high tension
- Excellent abrasion, fatigue and compression resistance
- Larger surface contact area to lower sheave and drum friction
- Longer service life
- Polymer plastic could be injected into IWRC, which can disperse inner pressure and friction
- The plastic layer can also keep in lubricant in the IWRC



FLEX–MAX133



FLEX–MAX182



*Please contact us for:

1. Information of other diameter ropes of the same type
2. Information of higher performance ropes of the same type

Diameter (mm)	Nominal unit weight (kg/m)	Minimum breaking force (kN)		
		1770 Grade	1960 Grade	2160 Grade
24	2.826	480	531	566
26	3.317	568	629	667
28	3.847	647	716	764
30	4.416	743	821	878
31	4.715	792	895	937
32	5.024	832	921	998
34	5.671	939	1,040	1,127
36	6.358	1,040	1,154	1,227
38	7.084	1,159	1,285	1,368
40	7.850	1,269	1,404	1,446

WIRE ROPE TERMINATION TYPES



FERRULE-PRESSED EYE WITH THIMBLE/SHACKLE

The ferrule-pressed termination distributes load efficiently and helps prevent wire rope fatigue, extending service life. The removable shackle design allows for quick and convenient installation or replacement.



FERRULE-PRESSED EYE WITH SOLID THIMBLE

Suitable for connection with open sockets and wedge sockets. The solid thimble provides enhanced protection against wear and deformation.



CLOSED SWAGE SOCKET

Manufactured using a precision swaging process to ensure a secure connection between the socket and wire rope, maintaining full rope efficiency.



THREADED SWAGE STUD

A threaded end fitting swaged directly onto the wire rope. The pre-formed thread length allows easy attachment, adjustment, and installation.



TURNBUCKLE

Used to accurately adjust and maintain wire rope tension and overall assembly length.



CABLE STOCKING

A woven wire mesh grip that tightens under load, commonly used for pulling, installing, and handling cables.



WEDGE SOCKET

Can be installed or removed quickly on site, making it ideal for applications requiring frequent rope replacement or adjustment while minimizing rope waste.



OPEN SPELTER SOCKET

The rope end is secured using the spelter socketing method, providing a high-strength termination with efficiency approaching 100% of the rope's rated strength.



CLOSED SPELTER SOCKET

Provides a permanent high-strength wire rope termination using the spelter socketing process, with efficiency approaching 100%.



PEAR-SHAPED SPELTER SOCKET

A compact spelter socket design that delivers high termination efficiency while offering a convenient connection point for shackles and other fittings.



FLAT-BODIED SPELTER SOCKET

Designed for multi-rope applications, providing secure load distribution and helping ensure equal load sharing among rope legs.



WIRELOCK® RESIN

A resin-based socketing compound used for wire rope terminations. It provides a safe, reliable connection with termination efficiency approaching 100%.

OUR PARTNERS FOR SAFETY IN LIFTING