

# شرکت رایین تجارت شرق

نماینده رسمی و انحصاری فون بویمن آلمان در ایران

ارائه کننده انواع سیم بکسل

آدرس : تهران ، خیابان ولیعصر ، خیابان الهیه ، پلاک ۱۳۲ واحد ۱۷

تلفن : ۰۲۱-۲۶۲۹۰۱۶۹

فکس : ۰۲۱-۲۶۲۹۰۱۶۴

همراه : ۰۹۱۲۸۳۶۷۸۴۰

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[www.rts.co.ir](http://www.rts.co.ir)

# STANDARD ROPES

## WE ARE ON OUR MOST FAMILIAR GROUND HERE!

For many decades we have produced various standard wire ropes of steel, stainless steel, brass and iron. With our standard ropes, you profit from our years of experience and high level of quality just like you do with our individual developments. And here too we strive to continuously improve and to develop new manufacturing technologies.

## STANDARD WIRE ROPES ACCORDING TO EN SPECIFICATIONS FOR YOUR APPLICATION

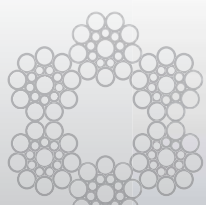
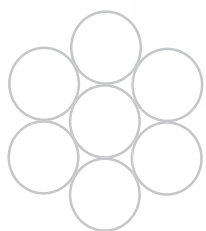
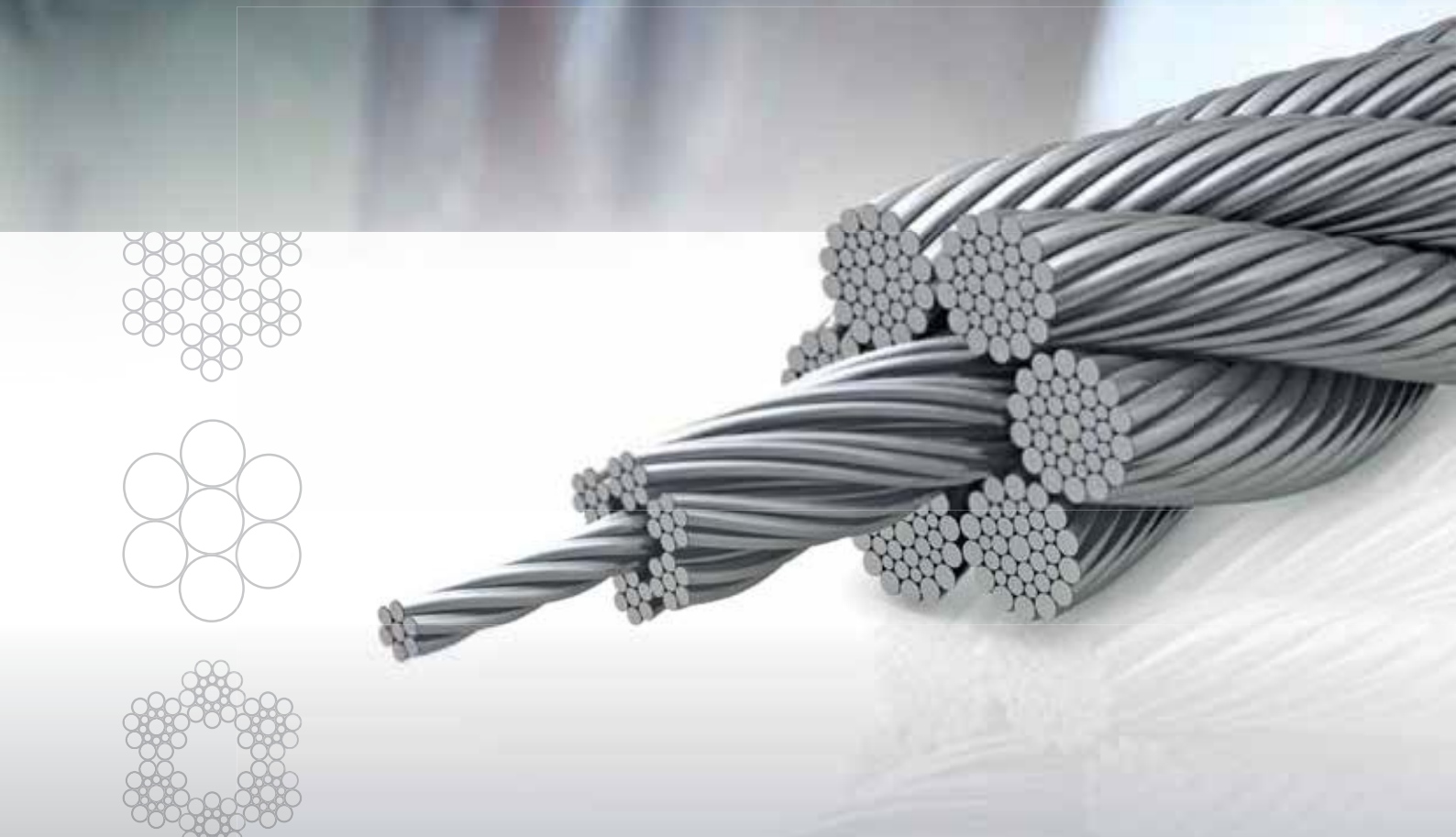
In our ropery, we produce ropes in a variety of designs, not just special ropes for individual applications. Standard ropes of standardised rope types according to EN specifications are also part of our portfolio. The normalised constructions of the standard wire ropes are used in various areas of application.

For example:

- in various crane applications
- in rope winches and rope pulling devices
- in architecture
- as lifting slings for hoisting applications
- in mining and machine construction
- in shipping
- in the medical field
- ... and in many other areas

The ropes are optionally manufactured with steel cores or with fibre cores (natural fibres or synthetic).

We offer all ropes dry, lightly lubricated or heavily lubricated to meet the needs of your application. We will gladly advise you on our oils and greases to help you to select the right lubricant.

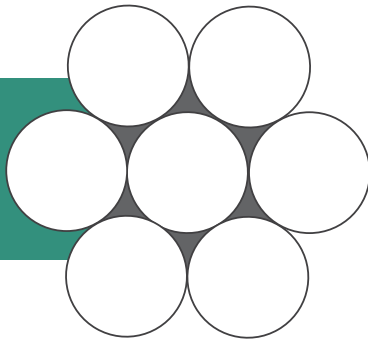


## STANDARD ROPES

### SPIRAL ROPES

Ø 0.6 – 6 mm

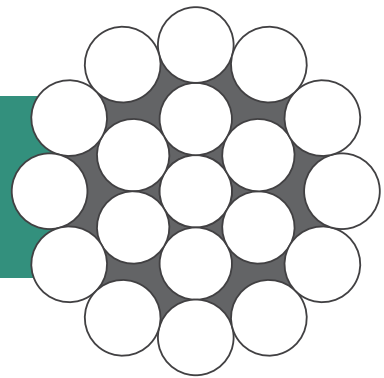
1 x 7



■ EN 12385-10

Ø 1 – 10 mm

1 x 19



■ EN 12385-10

Ø	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN
0.6	0.18	0.37	0.41
0.8	0.31	0.67	0.73
1	0.49	1.04	1.15
1.5	1.10	2.34	2.58
2	1.96	4.16	4.58
2.5	3.06	6.49	7.16
3	4.40	9.35	10.3
3.5	5.99	12.7	14.0
4	7.82	16.6	18.3
4.5	9.90	21.0	23.2
5	12.2	26.0	28.6
6	17.6	37.4	41.2

Ø	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN
1	0.49	1.03	1.14
1.25	0.76	1.61	1.77
1.5	1.09	2.32	2.56
2	1.94	4.12	4.54
2.5	3.03	6.44	7.10
3	4.37	9.28	10.2
3.5	5.94	12.6	13.9
4	7.76	16.5	18.2
5	12.1	25.8	28.4
6	17.5	37.1	40.9
7	23.8	50.5	55.7
8	31.0	66.0	72.7
9	39.3	83.5	92.0
10	48.5	103	114

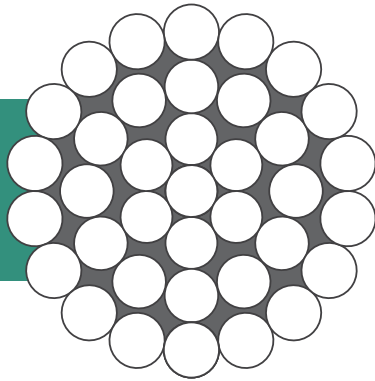
### NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

Ø 3 – 14 mm

1 x 37



■ EN 12385-10

Ø	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN
3	4.36	9.05	9.97
4	7.74	16.1	17.7
5	12.1	25.1	27.7
6	17.4	36.2	39.9
7	23.7	49.3	54.3
8	31.0	64.3	70.9
9	39.2	81.4	89.7
10	48.4	101	111
12	69.7	145	160
14	94.8	197	217

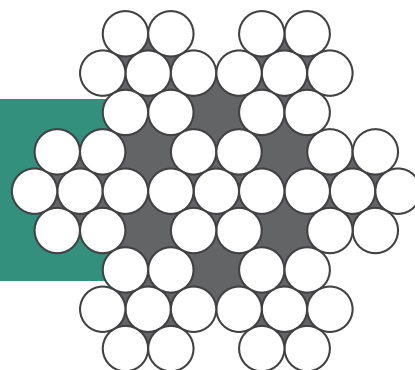
**NOTES**

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Please read our notes on rope selection on page 13.

6 x 7

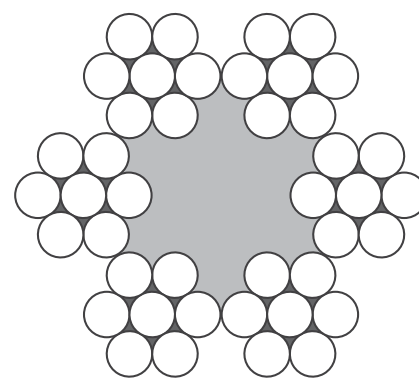
Ø 1.5 – 8 mm



- EN 12385-4
- Rope type 6 x 7

6 x 7-WSC

Ø	WSC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
1.5	0.86	1.58	1.74	0.78	1.46	1.61
2	1.54	2.81	3.10	1.38	2.60	2.87
2.5	2.40	4.40	4.85	2.16	4.07	4.48
3	3.46	6.33	6.98	3.11	5.86	6.45
3.5	4.70	8.62	9.50	4.23	7.97	8.78
4	6.14	11.3	12.4	5.52	10.4	11.5
5	9.60	17.6	19.4	8.63	16.3	17.9
6	13.8	25.3	27.9	12.4	23.4	25.8
7	18.8	34.5	38.0	16.9	31.9	35.1
8	24.6	45.0	49.6	22.1	41.6	45.9



6 x 7-FC

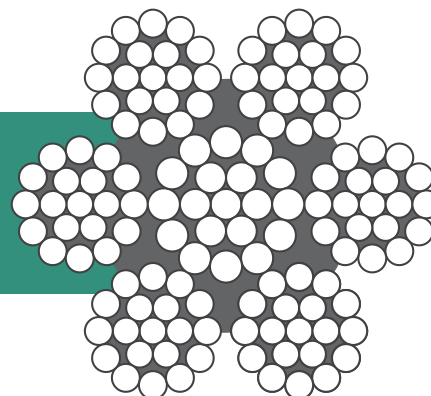
**NOTES**

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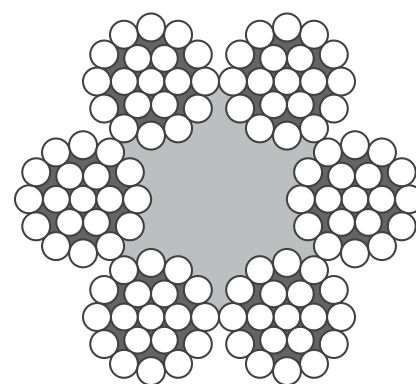
Please read our notes on rope selection on page 13.

**6 x 19M**

Ø 2.5 – 10 mm



- EN 12385-4
- Rope type 6 x 19M

**6 x 19M-WSC****WSC**

Ø	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN
2.5	2.38	4.43	4.89
3	3.43	6.39	7.04
4	6.10	11.4	12.5
5	9.50	17.7	19.5
6	13.7	25.5	28.1
7	18.7	34.8	38.3
8	24.4	45.4	50.0
10	38.1	71.0	78.2

**FC**

Weight	MBF 1960	MBF 2160
kg/100 m	kN	kN
2.16	3.76	4.14
3.11	5.42	5.97
5.54	9.63	10.6
8.65	15.0	16.6
12.5	21.7	23.9
17.0	29.5	32.5
22.1	38.5	42.4
34.6	60.2	66.3

**6 x 19M-FC****NOTES**

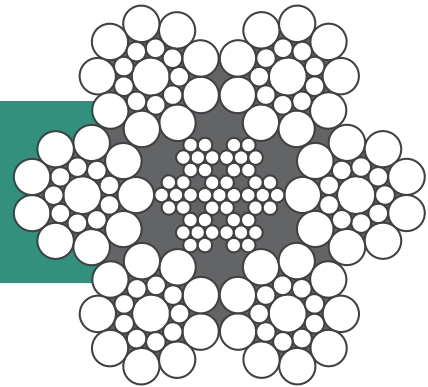
Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.



# 6 x 19S

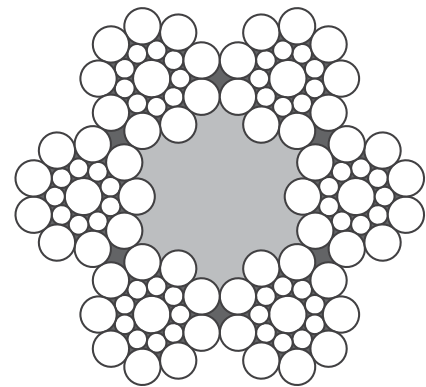
Ø 5 – 30 mm



- EN 12385-4
- Rope type 6 x 19

## 6 x 19S-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
5	10.0	17.4	19.2	8.98	16.2	17.8
6	14.4	25.1	27.7	12.9	23.3	25.7
7	19.6	34.2	37.7	17.6	31.7	34.9
8	25.6	44.7	49.2	23.0	41.4	45.6
9	32.4	56.5	62.3	29.1	52.4	57.7
10	40.0	69.8	76.9	35.9	64.7	71.3
11	48.4	84.4	93.0	43.4	78.3	86.2
12	57.6	100	111	51.7	93.1	103
13	67.6	118	130	60.7	109	120
14	78.4	137	151	70.4	127	140
15	90.0	157	173	80.8	146	160
16	102	179	197	91.9	166	182
17	116	202	222	104	187	206
18	130	226	249	116	210	231
19	144	252	278	130	233	257
20	160	279	308	144	259	285
22	194	338	372	174	313	345
24	230	402	443	207	373	411
26	270	472		243	437	
28	314	547		281	507	
30	360	628		323	582	



## 6 x 19S-FC

### NOTES

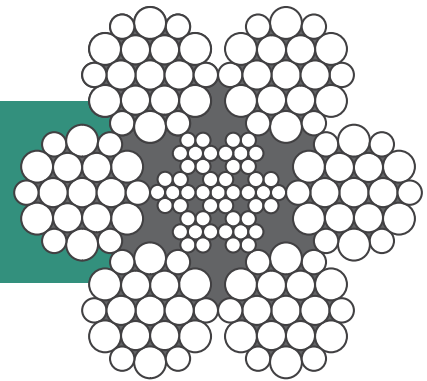
Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.



## 6 x 19W

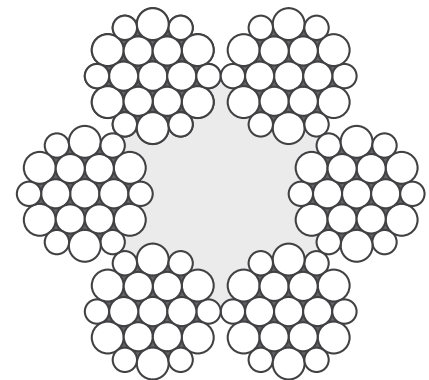
Ø5 – 34 mm



- EN 12385-4
- Rope type 6 x 19

## 6 x 19W-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
5	10.0	17.4	19.2	8.98	16.2	17.8
6	14.4	25.1	27.7	12.9	23.3	25.7
7	19.6	34.2	37.7	17.6	31.7	34.9
8	25.6	44.7	49.2	23.0	41.4	45.6
9	32.4	56.5	62.3	29.1	52.4	57.7
10	40.0	69.8	76.9	35.9	64.7	71.3
11	48.4	84.4	93.0	43.4	78.3	86.2
12	57.6	100	111	51.7	93.1	103
13	67.6	118	130	60.7	109	120
14	78.4	137	151	70.4	127	140
15	90.0	157	173	80.8	146	160
16	102	179	197	91.9	166	182
17	116	202	222	104	187	206
18	130	226	249	116	210	231
19	144	252	278	130	233	257
20	160	279	308	144	259	285
22	194	338	372	174	313	345
24	230	402	443	207	373	411
26	270	472	520	243	437	482
28	314	547		281	507	
30	360	628		323	582	
32	410	715		368	662	
34	462	807		415	748	



## 6 x 19W-FC

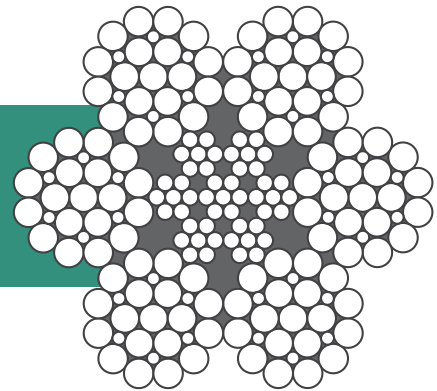
## NOTES

Additional diameters and special designs upon request.

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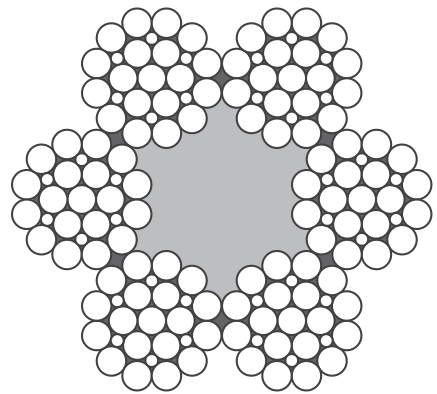
# 6 x 25F

Ø 6 – 36 mm



- EN 12385-4
- Rope type 6 x 19

## 6 x 25F-IWRC



## 6 x 25F-FC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
6	14.4	25.1	27.7	12.9	23.3	25.7
7	19.6	34.2	37.7	17.6	31.7	34.9
8	25.6	44.7	49.2	23.0	41.4	45.6
9	32.4	56.5	62.3	29.1	52.4	57.7
10	40.0	69.8	76.9	35.9	64.7	71.3
11	48.4	84.4	93.0	43.4	78.3	86.2
12	57.6	100	111	51.7	93.1	103
13	67.6	118	130	60.7	109	120
14	78.4	137	151	70.4	127	140
15	90.0	157	173	80.8	146	160
16	102	179	197	91.9	166	182
17	116	202	222	104	187	206
18	130	226	249	116	210	231
19	144	252	278	130	233	257
20	160	279	308	144	259	285
22	194	338	372	174	313	345
24	230	402	443	207	373	411
26	270	472	520	243	437	482
28	314	547	603	281	507	559
30	360	628	692	323	582	642
32	410	715		368	662	
34	462	807		415	748	
36	518	904		465	838	

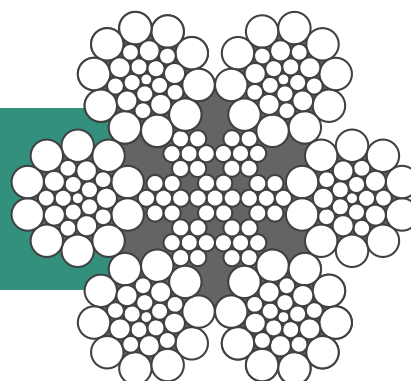
### NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

## 6 x 26WS

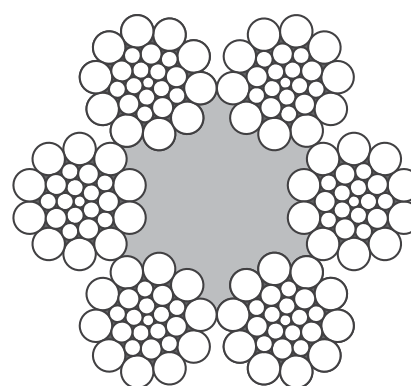
Ø 8 – 34 mm



- EN 12385-4
- Rope type 6 x 19

## 6 x 26WS-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
8	25.6	44.7	49.2	23.0	41.4	45.6
9	32.4	56.5	62.3	29.1	52.4	57.7
10	40.0	69.8	76.9	35.9	64.7	71.3
11	48.4	84.4	93.0	43.4	78.3	86.2
12	57.6	100	111	51.7	93.1	103
13	67.6	118	130	60.7	109	120
14	78.4	137	151	70.4	127	140
15	90.0	157	173	80.8	146	160
16	102	179	197	91.9	166	182
17	116	202	222	104	187	206
18	130	226	249	116	210	231
19	144	252	278	130	233	257
20	160	279	308	144	259	285
22	194	338	372	174	313	345
24	230	402	443	207	373	411
26	270	472	520	243	437	482
28	314	547		281	507	
30	360	628		323	582	
32	410	715		368	662	
34	462	807		415	748	



## 6 x 26WS-FC

## NOTES

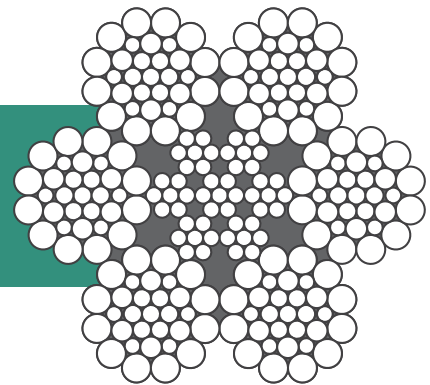
Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

## 6 x 31WS

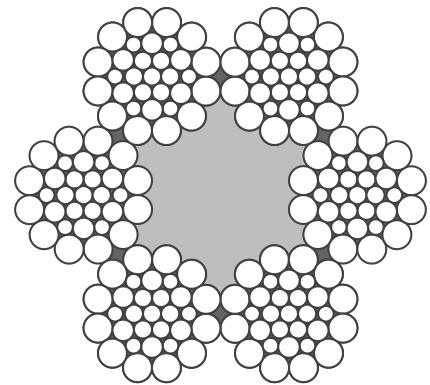
Ø 7 – 40 mm

- EN 12385-4
- Rope type 6 x 36



## 6 x 31WS-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
7	20.0	34.2	37.7	18.0	31.7	34.9
8	26.2	44.7	49.2	23.5	41.4	45.6
9	33.1	56.5	62.3	29.7	52.4	57.7
10	40.9	69.8	76.9	36.7	64.7	71.3
11	49.5	84.4	93.0	44.4	78.3	86.2
12	58.9	100	111	52.8	93.1	103
13	69.1	118	130	62.0	109	120
14	80.2	137	151	71.9	127	140
15	92.0	157	173	82.6	146	160
16	105	179	197	94.0	166	182
17	118	202	222	106	187	206
18	133	226	249	119	210	231
19	148	252	278	132	233	257
20	164	279	308	147	259	285
22	198	338	372	178	313	345
24	236	402	443	211	373	411
26	276	472	520	248	437	482
28	321	547	603	288	507	559
30	368	628	692	330	582	642
32	419	715	787	376	662	730
34	473	807	889	424	748	824
36	530	904	997	476	838	924
38	591	1010		530	934	
40	654	1120		587	1040	



## 6 x 31WS-FC

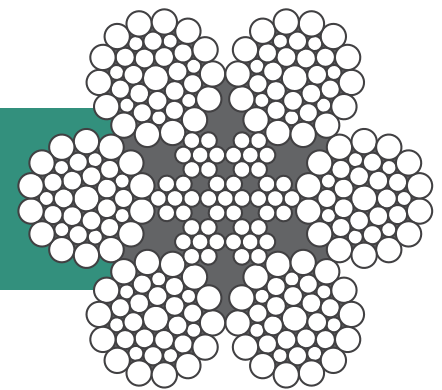
## NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

## 6 x 36WS

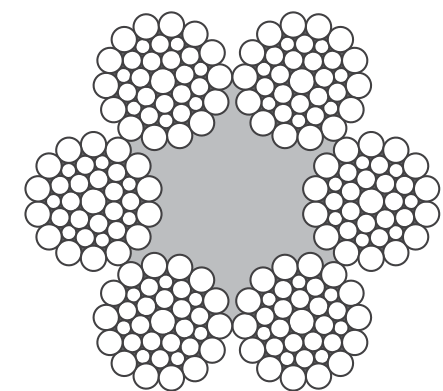
Ø 8 – 54 mm



- EN 12385-4
- Rope type 6 x 36

## 6 x 36WS-IWRC

Ø	IWRC				FC			
	Weight	MBF 1770	MBF 1960	MBF 2160	Weight	MBF 1770	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kN	kg/100 m	kN	kN	kN
8	26.2	40.3	44.7	49.2	23.5	37.4	41.4	45.6
9	33.1	51.0	56.5	62.3	29.7	47.3	52.4	57.7
10	40.9	63.0	69.8	76.9	36.7	58.4	64.7	71.3
11	49.5	76.2	84.4	93.0	44.4	70.7	78.3	86.2
12	58.9	90.7	100	111	52.8	84.1	93.1	103
13	69.1	106	118	130	62.0	98.7	109	120
14	80.2	124	137	151	71.9	114	127	140
15	92.0	142	157	173	82.6	131	146	160
16	105	161	179	197	94.0	150	166	182
17	118	182	202	222	106	169	187	206
18	133	204	226	249	119	189	210	231
19	148	227	252	278	132	211	233	257
20	164	252	279	308	147	234	259	285
22	198	305	338	372	178	283	313	345
24	236	363	402	443	211	336	373	411
26	276	426	472	520	248	395	437	482
28	321	494	547	603	288	458	507	559
30	368	567	628	692	330	526	582	642
32	419	645	715	787	376	598	662	730
34	473	728	807	889	424	675	748	824
36	530	817	904		476	757	838	
38	591	910	1010		530	843	934	
40	654	1010	1120		587	935	1040	
42	721	1110	1230		647	1030	1140	
44	792	1220	1350		711	1130	1250	
46	865	1330	1480		777	1240	1370	
48	942	1450	1610		846	1350	1490	
50	1020	1580			918	1460		
52	1110	1700			992	1580		
54	1197	1840			1070	1700		



## 6 x 36WS-FC

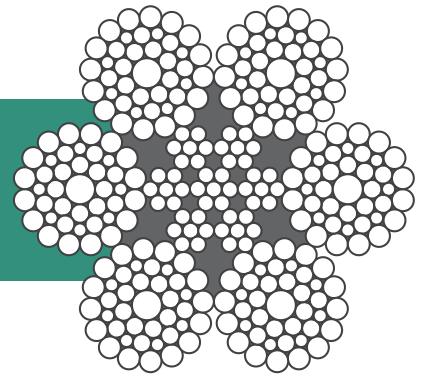
## NOTES

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Please read our notes on rope selection on page 13.

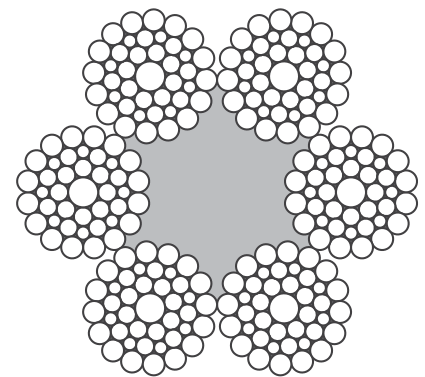
# 6 x 41WS

Ø 14 – 54 mm



- EN 12385-4
- Rope type 6 x 36

## 6 x 41WS-IWRC



## 6 x 41WS-FC

Ø	IWRC				FC			
	Weight	MBF 1770	MBF 1960	MBF 2160	Weight	MBF 1770	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kN	kg/100 m	kN	kN	kN
14	80.2	124	137	151	71.9	114	127	140
15	92.0	142	157	173	82.6	131	146	160
16	105	161	179	197	94.0	150	166	182
17	118	182	202	222	106	169	187	206
18	133	204	226	249	119	189	210	231
19	148	227	252	278	132	211	233	257
20	164	252	279	308	147	234	259	285
22	198	305	338	372	178	283	313	345
24	236	363	402	443	211	336	373	411
26	276	426	472	520	248	395	437	482
28	321	494	547	603	288	458	507	559
30	368	567	628	692	330	526	582	642
32	419	645	715	787	376	598	662	730
34	473	728	807	889	424	675	748	824
36	530	817	904	997	476	757	838	924
38	591	910	1010	1110	530	843	934	1030
40	654	1010	1120		587	935	1040	
42	721	1110	1230		647	1030	1140	
44	792	1220	1350		711	1130	1250	
46	865	1330	1480		777	1240	1370	
48	942	1450	1610		846	1350	1490	
50	1020	1580			918	1460		
52	1110	1700			992	1580		
54	1197	1840			1070	1700		

### NOTES

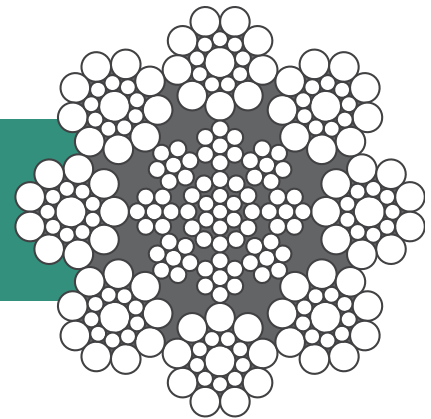
Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

## 8 x 19S

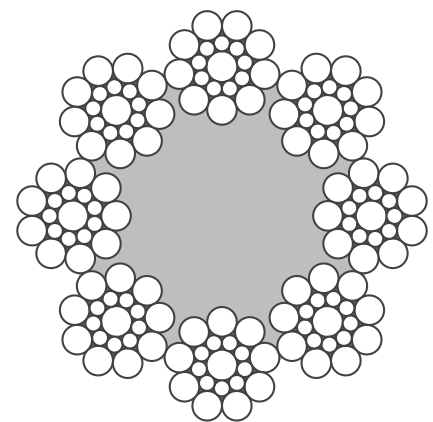
Ø 6 – 38 mm

- EN 12385-4
- Rope type 8 x 19



## 8 x 19S-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
6	14.7	25.1	27.7	12.2	20.7	22.8
7	19.9	34.2	37.7	16.7	28.1	31.0
8	26.0	44.7	49.2	21.8	36.8	40.5
9	33.0	56.5	62.3	27.5	46.5	51.3
10	40.7	69.8	76.9	34.0	57.4	63.3
11	49.2	84.4	93.0	41.1	69.5	76.6
12	58.6	100	111	49.0	82.7	91.1
13	68.8	118	130	57.5	97.1	107
14	79.8	137	151	66.6	113	124
15	91.6	157	173	76.5	129	142
16	104	179	197	87.0	147	162
17	118	202	222	98.3	166	183
18	132	226	249	110	186	205
19	147	252	278	123	207	228
20	163	279	308	136	230	253
22	197	338	372	165	278	306
24	234	402	443	196	331	365
26	275	472	520	230	388	428
28	319	547	603	267	450	496
30	366	628		306	517	
32	417	715		348	588	
34	470	807		393	664	
36	527	904		441	744	
38	588	1010		491	829	



## 8 x 19S-FC

## NOTES

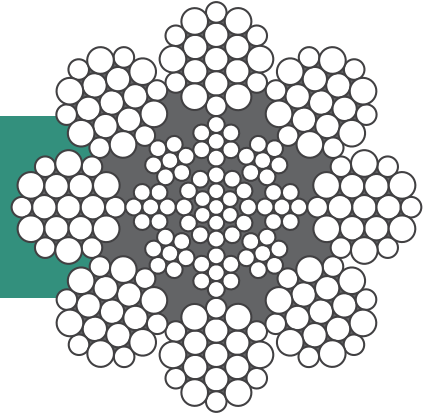
Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.



# 8 x 19W

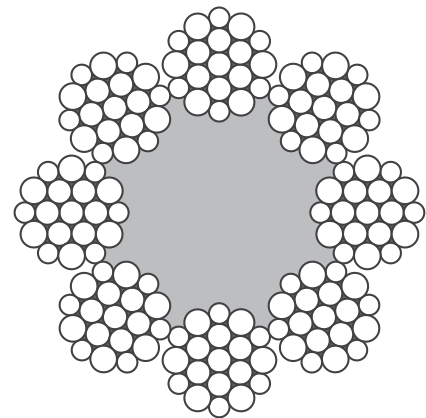
Ø 6 – 42 mm



- EN 12385-4
- Rope type 8 x 19

## 8 x 19W-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
6	14.7	25.1	27.7	12.2	20.7	22.8
7	19.9	34.2	37.7	16.7	28.1	31.0
8	26.0	44.7	49.2	21.8	36.8	40.5
9	33.0	56.5	62.3	27.5	46.5	51.3
10	40.7	69.8	76.9	34.0	57.4	63.3
11	49.2	84.4	93.0	41.1	69.5	76.6
12	58.6	100	111	49.0	82.7	91.1
13	68.8	118	130	57.5	97.1	107
14	79.8	137	151	66.6	113	124
15	91.6	157	173	76.5	129	142
16	104	179	197	87.0	147	162
17	118	202	222	98.3	166	183
18	132	226	249	110	186	205
19	147	252	278	123	207	228
20	163	279	308	136	230	253
22	197	338	372	165	278	306
24	234	402	443	196	331	365
26	275	472	520	230	388	428
28	319	547	603	267	450	496
30	366	628	692	306	517	570
32	417	715	787	348	588	648
34	470	807		393	664	
36	527	904		441	744	
38	588	1010		491	829	
40	651	1120		544	919	
42	718	1230		600	1010	



## 8 x 19W-FC

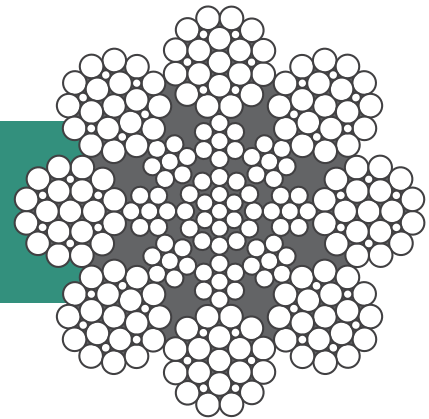
### NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

## 8 x 25F

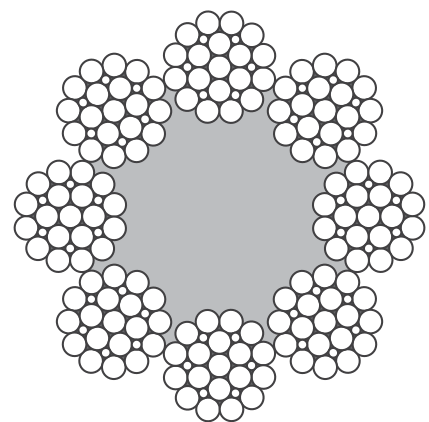
Ø 10 – 44 mm



- EN 12385-4
- Rope type 8 x 19

## 8 x 25F-IWRC

IWRC				FC		
Ø	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
10	40.7	69.8	76.9	34.0	57.4	63.3
11	49.2	84.4	93.0	41.1	69.5	76.6
12	58.6	100	111	49.0	82.7	91.1
13	68.8	118	130	57.5	97.1	107
14	79.8	137	151	66.6	113	124
15	91.6	157	173	76.5	129	142
16	104	179	197	87.0	147	162
17	118	202	222	98.3	166	183
18	132	226	249	110	186	205
19	147	252	278	123	207	228
20	163	279	308	136	230	253
22	197	338	372	165	278	306
24	234	402	443	196	331	365
26	275	472	520	230	388	428
28	319	547	603	267	450	496
30	366	628	692	306	517	570
32	417	715	787	348	588	648
34	470	807	889	393	664	732
36	527	904	997	441	744	820
38	588	1010		491	829	
40	651	1120		544	919	
42	718	1230		600	1010	
44	788	1350		658	1110	



## 8 x 25F-FC

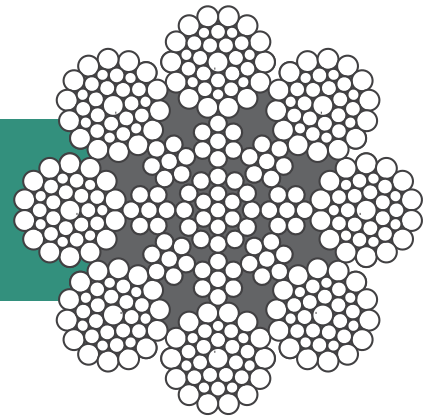
## NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

# 8 x 36WS

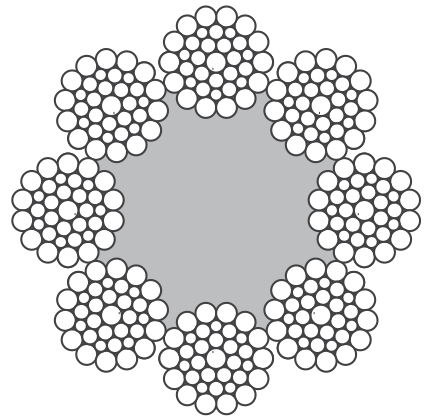
Ø 13 – 52 mm



- EN 12385-4
- Rope type 8 x 36

## 8 x 36WS-IWRC

Ø	IWRC			FC		
	Weight	MBF 1960	MBF 2160	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN	kg/100 m	kN	kN
13	70.5	118	130	58.8	97.1	107
14	81.7	137	151	68.2	113	124
15	93.8	157	173	78.3	129	142
16	107	179	197	89.1	147	162
17	121	202	222	101	166	183
18	135	226	249	113	186	205
19	151	252	278	126	207	228
20	167	279	308	139	230	253
22	202	338	372	168	278	306
24	240	402	443	200	331	365
26	282	472	520	235	388	428
28	327	547	603	273	450	496
30	375	628	692	313	517	570
32	427	715	787	356	588	648
34	482	807	889	402	664	732
36	540	904	997	451	744	820
38	602	1010	1110	503	829	914
40	667	1120	1230	557	919	1010
42	736	1230	1360	614	1010	1120
44	807	1350		674	1110	
46	882	1480		736	1220	
48	961	1610		802	1320	
50	1040	1740		870	1440	
52	1130	1890		941	1550	



## 8 x 36WS-FC

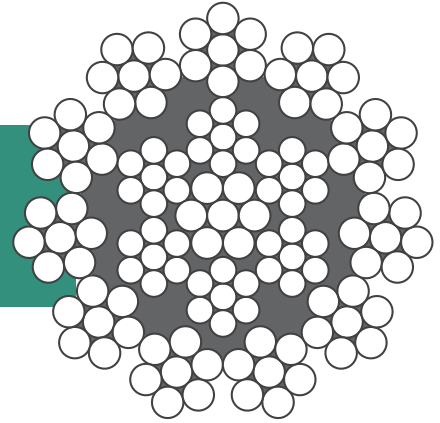
### NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.

# 17 x 7-WSC

Ø 3 – 22 mm



- EN 12385-4
- Rope type 18 x 7
- Rotation-resistant (b) EN 12385-3

## WSC

Ø	Weight	MBF 1960	MBF 2160
mm	kg/100 m	kN	kN
3	3.61	5.79	6.38
4	6.42	10.3	11.3
5	10.0	16.1	17.7
6	14.4	23.1	25.5
7	19.6	31.5	34.7
8	25.7	41.1	45.3
9	32.5	52.1	57.4
10	40.1	64.3	70.8
11	48.5	77.8	85.7
12	57.7	92.6	102
13	67.8	109	120
14	78.6	126	139
15	90.2	145	159
16	103	165	181
17	116	186	205
18	130	208	230
19	145	232	256
20	160	257	283
22	194	311	343

## NOTES

Additional diameters and special designs upon request.

Please read our notes on rope selection on page 13.