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نماینده‌گی انحصاری گروه کارل اشتال آلمان در خاورمیانه
نماینده رسمی شرکت فورن باومن آلمان

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(دراکو بکسل پدید)

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نماینده رسمی کارخانجات صنعتی ملایر
عضو انجمن مهندسی دریایی ایران

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بسم تعالی

شرکت بازرگانی باختر پدید فولاد (BPF) با بیش از ۳۰ سال سابقه در زمینه تهیه ، توزیع و تولید انواع طنابهای فولادی (سیم بکسل) و ابزار بالا برنده و با برخورداری از کادری فنی ، مجرب و کارآزموده آماده ارائه هر نوع خدمات فنی و مشاوره ای با کلیه شرکتهای مرتبط با صنایع نفت ، گاز ، پتروشیمی ، حمل و نقل دریائی ، فراساحلی ، معادن ، حفاری ، فولاد ، سنگبری ، سیمان ، سد سازی ، آسانسوری ، مرغداری ، برق و کارخانجات صنعتی در این خصوص می باشد .

در خلال بیش از ۳۰ سال فعالیت دریافتیم که اغلب مصرف کنندگان از مشخصات ، طرز کار و نگهداری طنابهای فولادی و متعلقات آن اطلاعات کافی ندارند، در صورتیکه اطلاع داشتن از این موارد باعث افزایش طول عمر مفید آنها و در نتیجه کاهش هزینه می گردد.

لذا این شرکت با استفاده از امکانات وسیع بازرگانی ، فنی و کارگاهی خود قادر به ارائه کلیه اقلام مندرج در این بروشور بسته به نیاز مصرف کننده ، بصورت تامین از منابع داخل و خارج مطابق با تمامی استانداردهای جهانی و با ارائه سرتیفیکیت ، می باشد .

با آرزوی موفقیت روز افزون تمامی صنایع کشور عزیزمان ایران

شرکت باختر پدید فولاد (BPF)

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بالبرهای معدنی افقی، عمودی و شیب دار، جرثقیل ها، آسانسورها

MINING INDUSTRY HOISTS AND ELEVATORS

6×9 W+FC	6×9 W+IWRC	6×36 WS+FC
6×19 S+FC	6×19 S+IWRC	18×19 WS+FC
6×25 Fi+FC	6×36 WS+IWRC	8×19 WS+IWRC



ماشین های اسکاواتور معدنی

MINING INDUSTRY HOISTS AND ELEVATORS

6×19 W+FC	6×19 W+IWRC	6×36 WS+FC
6×25 Fi+FC	6×36 WS+IWRC	18×19 WS+FC
8×36 WS+IWRC		



بالبرها و وینچ های مورد استفاده در بندر و صنایع کشتیرانی و ماهیگیری

MINING INDUSTRY HOISTS AND ELEVATORS

6×7+FC	6×19 W+FC	6×36 WS+FC
6×7×19 W+FC	6×25 Fi+IWRC	6×25+FC/ IWRC
7×7+IWRC	6×25 Fi+FC	
6×30+7 FC	6×36+IWRC	



بالبرهای ساختمانی و تاورکرین ها

MINING INDUSTRY HOISTS AND ELEVATORS

6×19 W+FC	6×36 WS+FC	6×19 S+FC
6×36 WS+IWRC	6×25 Fi+FC	6×31 WS+FC/IWRC



دستگاه های حفاری و دکل های نفت و گاز

MINING INDUSTRY HOISTS AND ELEVATORS

6×19 W+FC	6×36 WS+FC	6×19 S+FC
6×36 WS+IWRC	6×25 Fi+FC	6×31 WS+FC/IWRC

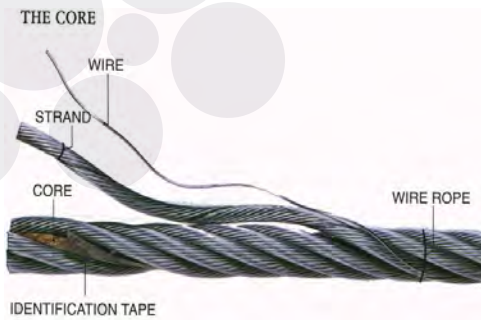


خطوط و شبکه های توزیع نیرو

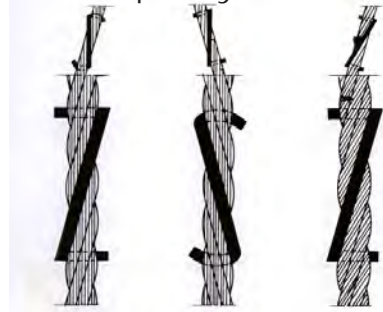
MINING INDUSTRY HOISTS AND ELEVATORS

1×7 (1+6)	6×7 FC	6×25 Fi+FC
1×19 (1+6+12)	6×19 FC	6×36 WS+FC
1×37 (1+6+12+18)	6×19 W+FC	

Construction of wire rope



Wire rope lay



right hand regular lay

left hand regular lay

right hand lang's lay

Cores of wire rope



مغزی الیافی (FC)



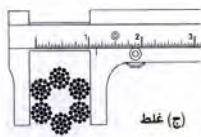
مغزی طناب فولادی مستقل (IWRC)



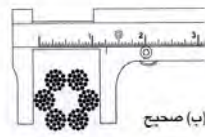
مغزی استرند مفتول (WSC)

مغزی اساس طناب فولادی است. اگر مغزی نتواند فشار حاصله از بار را تحمل کند، فاصله بین استرندها از بین رفته و عمر مفید طناب کوتاه خواهد شد. هرگاه مشخص گردد که مغزی الیافی تحمل بار مورد نظر را ندارد باید از مغزی فولادی WSC یا IWRC (7×7) یا WSC (1×37-1×19) استفاده کرد. همچنین اگر دمای محیط از 180 درجه فارنهایت (82 درجه سانتیگراد) تجاوز کند، باید از مغزی فولادی استفاده کرد.

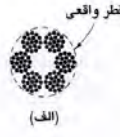
در انتخاب مناسب ترین مغزی برای کاربردی معین، متخصصین شرکت باختر پدید فولاد آماده راهنمایی می باشند.



(ج) غلط



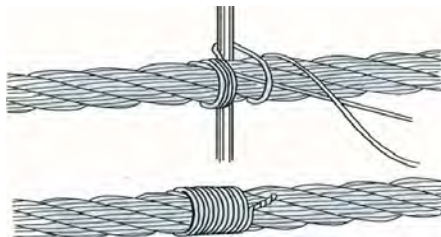
(ب) صحیح



(الف) قطر واقعی

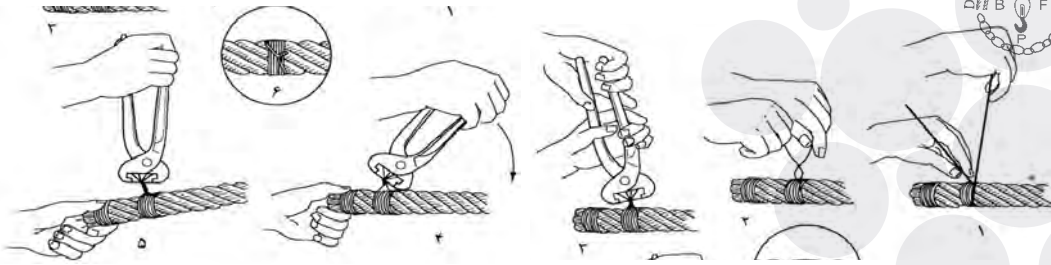
نحوه اندازه گیری صحیح قطر یک طناب

از آنجاییکه قطر واقعی طناب (الف)، قطر همان دایره ای است که در آن احاطه میگردد، بنابراین همواره این قطر را اندازه گیری نمایید. (ب)



یک سرمفتول مهار را در شیار بین دو استرند طناب قرار دهید.

سردیگر آنرا به کمک میله مهار (میله ای آهنی بقطر 1/2 تا 1/8 و به طول 1/8 اینچ) سفت و بصورت مارپیچ دور طناب طوری ببیچید که سرمفتول در زیر بست قرار بگیرد. سپس دوسر مفتول بست را به هم پیچانده و محکم کنید. پهنای بست نباید کمتر از قطر طناب فولادی باشد.



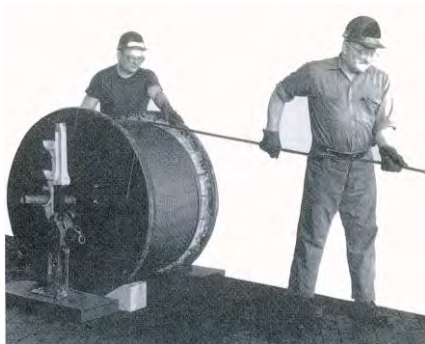
روش نشان داده شده، دومین روش قابل قبول برای مهار کردن طناب فولادی به منظور برش می باشد.



این شکل یک روش غلط باز کردن طناب از روی قرقره را نشان میدهد.



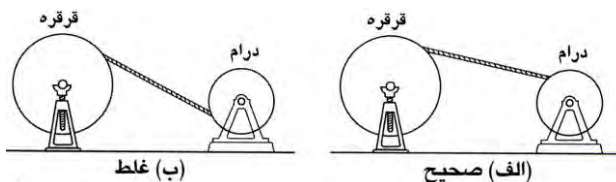
این شکل یک روش غلط باز کردن طناب از کلاف را نشان میدهد.



طناب فولادی روی شافتی که به دوپایه مناسب تکیه دارد سوار می شود. بدین ترتیب قرقره آزادانه می چرخد و طناب را می توان با دست یا با یک مکانیسم برقی باز کرد.



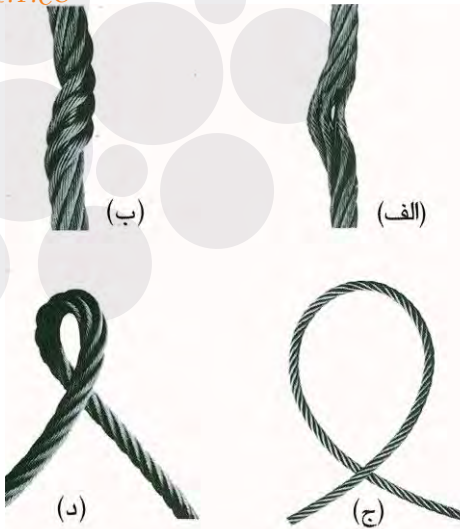
شاید متداولترین و آسان ترین راه باز کردن طناب از این کلاف این باشد که یک نفر سر طناب را نگهدارد و نفر بعدی کلاف را با غلطاندن از او دور کند.



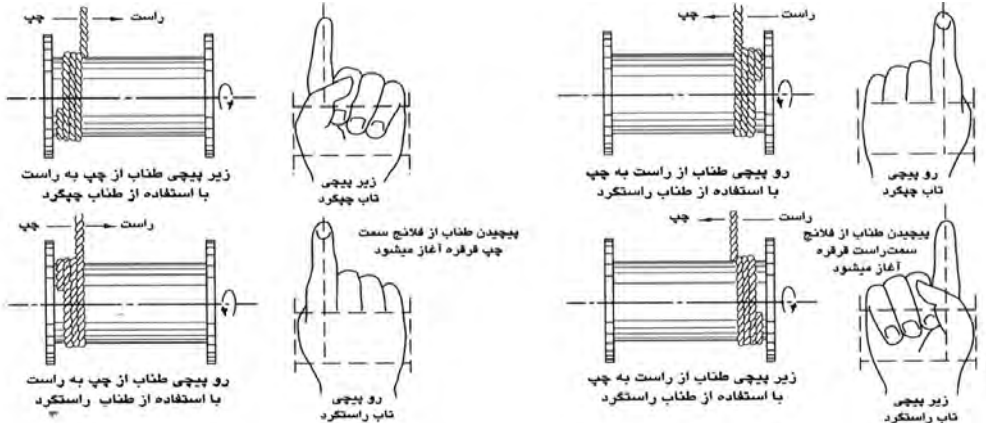
روش صحیح (الف) و روش غلط (ب) پیچیدن طناب فولادی از قرقره به درام



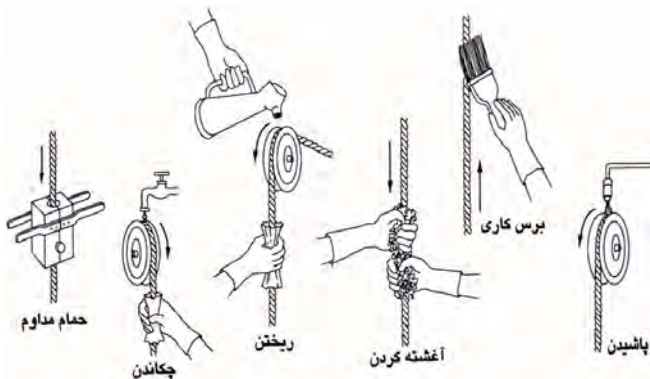
یک پایه قرقره بازکن عمودی



باز کردن غلط طناب میتواند پیچ خوردگی باز (الف) یا پیچ خوردگی بسته (ب) ایجاد کند. پیچ خوردگی باز، تاب طناب را باز و پیچ خوردگی بسته، تاب طناب را می بندد. وقوع حلقه (ج): نباید گذاشت طناب تشکیل حلقه بدهد. با این حال اگر حلقه تشکیل شد و در مرحله ابتدایی رفع گردید، میتوان از ایجاد پیچ خوردگی اجتناب کرد. پیچ خوردگی (د): در این حالت طناب حلقه شده، کشیده شده و پیچ خوردگی ایجاد شده است. طناب لطمه دائمی دیده و باید کنار گذاشته شود.



توسط مشت بسته دست راست یا چپ که انگشت اشاره آن باز باشد میتوان رویه صحیح برای پیچیدن طناب راست گرد یا چپ گرد روی درام صاف را نشان داد.



روشهای روغنکاری متداول در حال حاضر عبارتند از: حمام مداوم، چکاندن، ریختن، آغشته کردن، روغن کاری توسط برس یا فرچه و اسپری کردن. زمانی که طناب خم میشود، روغن بسیار آسانتر نفوذ می کند. فلش ها نشان دهنده جهت حرکت طناب است.

استرند (رشته) ۱×۷ گالوانیزه

Galvanized 1×7 strand
Construction: 1×7 (1+6)
GOST 3062, DIN 3052

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
1	5.0	B.P.F-01-0001	0.96	98	0.098
1.5	11.0	B.P.F-01-0002	2.17	221	0.222
2	20.0	B.P.F-01-0003	3.85	392	0.395
2.5	31.0	B.P.F-01-0004	6.02	613	0.615
3	45.0	B.P.F-01-0005	8.67	882	0.885
3.5	62.0	B.P.F-01-0006	11.80	1206	1.202
4	80.0	B.P.F-01-0007	15.40	1570	1.570
4.5	102.0	B.P.F-01-0008	19.50	1980	1.985
5	126.0	B.P.F-01-0009	24.10	2450	2.455
6	181.0	B.P.F-01-0010	34.70	3530	3.535
7	246.0	B.P.F-01-0011	47.20	4800	4.815
8	321.0	B.P.F-01-0012	61.70	6270	6.290
9	407.0	B.P.F-01-0013	78.00	7940	7.950
10	502.0	B.P.F-01-0014	96.30	9800	9.815
12	723.0	B.P.F-01-0015	139.00	14100	14.170
14	984.0	B.P.F-01-0016	189.00	19200	19.265
16	1290.0	B.P.F-01-0017	247.00	25100	25.180

استرند (رشته) ۱×۱۹ گالوانیزه

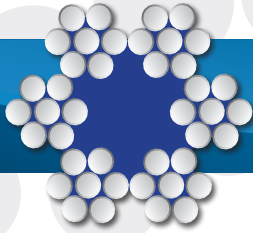
Galvanized 1×19 strand
Construction: 1×7 (1+6+12)
GOST 3063, DIN 3053

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
1	5.0	B.P.F-01-0018	0.93	94	0.094
2	20.0	B.P.F-01-0019	3.72	379	0.380
3	45.0	B.P.F-01-0020	8.37	850	0.855
4	79.0	B.P.F-01-0021	14.90	1510	1.520
5	124.0	B.P.F-01-0022	23.20	2360	2.365
6	178.0	B.P.F-01-0023	33.50	3400	3.415
7	243.0	B.P.F-01-0024	45.60	4630	4.650
8	317.0	B.P.F-01-0025	59.50	6050	6.065
9	401.0	B.P.F-01-0026	75.30	7660	7.675
10	495.0	B.P.F-01-0027	93.00	9450	9.480
11	599.0	B.P.F-01-0028	122.00	11400	12.435
12	713.0	B.P.F-01-0029	134.00	13600	13.660
13	837.0	B.P.F-01-0030	157.00	16000	16.005
14	971.0	B.P.F-01-0031	182.00	18500	18.550
15	1110.0	B.P.F-01-0032	209.00	21300	21.305
16	1270.0	B.P.F-01-0033	238.00	24200	24.260
17	1430.0	B.P.F-01-0034	269.00	27300	27.420
18	1610.0	B.P.F-01-0035	301.00	30600	30.680
19	1790.0	B.P.F-01-0036	336.00	34100	34.250
20	1980.0	B.P.F-01-0037	372.00	37800	37.920
21	2180.0	B.P.F-01-0038	410.00	41700	41.795
22	2400.0	B.P.F-01-0039	450.00	45700	45.870
23	2620.0	B.P.F-01-0040	492.00	50000	50.150
24	2850.0	B.P.F-01-0041	536.00	54400	54.640
25	3100.0	B.P.F-01-0042	581.00	59100	59.225

استرند (رشته) ۱×۳۷ گالوانیزه

Galvanized 1×37 strand
Construction: 1×37 (1+6+12+18)
GOST 3064, DIN 3054

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
3	44.0	B.P.F-01-0043	8.16	830	0.830
4	78.0	B.P.F-01-0044	14.50	1480	1.480
5	122.0	B.P.F-01-0045	22.70	2310	2.315
6	176.0	B.P.F-01-0046	32.70	3320	3.330
7	240.0	B.P.F-01-0047	44.40	4520	4.525
8	313.0	B.P.F-01-0048	58.10	5900	5.920
9	396.0	B.P.F-01-0049	73.50	7470	7.490
10	489.0	B.P.F-01-0050	90.70	9220	9.245
12	704.0	B.P.F-01-0051	131.00	13300	13.350
14	958.0	B.P.F-01-0052	178.00	18100	18.145
16	1250.0	B.P.F-01-0053	232.00	23600	23.650
18	1580.0	B.P.F-01-0054	294.00	29900	29.970
20	1960.0	B.P.F-01-0055	363.00	36900	37.005
22	2370.0	B.P.F-01-0056	439.00	44600	44.750
24	2820.0	B.P.F-01-0057	522.00	53100	53.215
26	3310.0	B.P.F-01-0058	613.00	62300	62.485
28	3830.0	B.P.F-01-0059	711.00	72300	72.480
30	4400.0	B.P.F-01-0060	816.00	83000	83.180
32	5010.0	B.P.F-01-0061	929.00	94400	94.700
34	5650.0	B.P.F-01-0062	1050.00	107000	107.040
36	6340.0	B.P.F-01-0063	1180.00	120000	120.285



طناب فولادی ۶×۷ با مغزی کنفی

6×7+FC wire rope

Construction: 6×7 (1+6) +1FC

GOST 3063, DIN 3053

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
2	14.0	B.P.F-01-0064	2.35	239	0.240
3	32.0	B.P.F-01-0065	5.29	538	0.540
4	57.0	B.P.F-01-0066	9.41	957	0.960
5	89.0	B.P.F-01-0067	14.70	1500	1.500
6	129.0	B.P.F-01-0068	21.10	2150	2.150
7	175.0	B.P.F-01-0069	28.80	2930	2.935
8	229.0	B.P.F-01-0070	37.60	3830	3.835
9	289.0	B.P.F-01-0071	47.60	4840	4.850
10	357.0	B.P.F-01-0072	58.80	5980	5.600
11	432.0	B.P.F-01-0073	71.10	7240	7.250
12	515.0	B.P.F-01-0074	84.70	8610	8.635
13	604.0	B.P.F-01-0075	99.40	10100	10.130
14	701.0	B.P.F-01-0076	115.00	11700	11.725
16	915.0	B.P.F-01-0077	151.00	15300	15.395
18	1160.0	B.P.F-01-0078	191.00	19400	19.470
20	1430.0	B.P.F-01-0079	235.00	23900	23.955
22	1730.0	B.P.F-01-0080	285.00	28900	29.050
24	2060.0	B.P.F-01-0081	339.00	34400	34.560
26	2420.0	B.P.F-01-0082	397.00	40400	40.470
28	2800.0	B.P.F-01-0083	461.00	46900	46.990
32	3660.0	B.P.F-01-0084	602.00	61200	61.365
35	4240.0	B.P.F-01-0085	720.00	73400	73.395
36	4630.0	B.P.F-01-0086	762.00	77500	77.675
40	5720.0	B.P.F-01-0087	941.00	95700	95.925

طناب فولادی ۶×۷ با مغزی فولادی

6×7+IWRC wire rope
 Construction: 6×7 (1+6) +7×7(1+6)
 GOST 3066, DIN 3055

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
2	16.0	B.P.F-01-0088	2.53	258	0.260
3	35.0	B.P.F-01-0089	5.71	581	0.582
4	63.0	B.P.F-01-0090	10.20	1030	1.040
5	98.0	B.P.F-01-0091	15.90	1620	1.621
6	142.0	B.P.F-01-0092	22.90	2320	2.335
7	193.0	B.P.F-01-0093	31.10	3160	3.170
8	252.0	B.P.F-01-0094	40.60	4140	4.140
9	318.0	B.P.F-01-0095	51.40	5230	5.240
10	393.0	B.P.F-01-0096	63.50	6460	6.470
11	475.0	B.P.F-01-0097	76.80	7820	7.830
12	567.0	B.P.F-01-0098	91.50	9300	9.330
13	664.0	B.P.F-01-0099	107.00	10900	10.910
14	771.0	B.P.F-01-0100	124.00	12600	12.640
16	1010.0	B.P.F-01-0101	163.00	16500	16.615
18	1280.0	B.P.F-01-0102	206.00	21000	21.000
20	1570.0	B.P.F-01-0103	254.00	25800	25.890
22	1900.0	B.P.F-01-0104	307.00	31200	31.295
24	2270.0	B.P.F-01-0105	366.00	37200	37.310
26	2660.0	B.P.F-01-0106	429.00	43600	43.730
28	3080.0	B.P.F-01-0107	498.00	50700	50.765
32	4030.0	B.P.F-01-0108	650.00	66100	66.260
36	5090.0	B.P.F-01-0109	823.00	83700	83.895
40	6290.0	B.P.F-01-0110	1010.00	103000	103.000

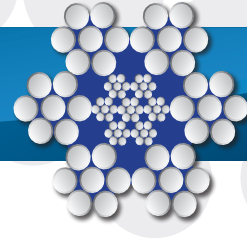


طناب فولادی ۸×۷ با مغزی کنفی

7×8+FC wire rope
Construction: 7×8 (1+6) +1FC
DIN 3056

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	125.0	B.P.F-01-0111	18.90	1930	1.93
7	171.0	B.P.F-01-0112	25.80	2620	2.620
8	223.0	B.P.F-01-0113	33.70	3420	3.430
9	282.0	B.P.F-01-0114	42.60	4330	4.340
10	348.0	B.P.F-01-0115	52.60	5350	5.360
11	422.0	B.P.F-01-0116	63.70	6470	6.490
12	502.0	B.P.F-01-0117	75.80	7700	7.720
13	589.0	B.P.F-01-0118	88.90	9040	9.060
14	683.0	B.P.F-01-0119	103.00	10500	10.500
16	899.0	B.P.F-01-0120	135.00	13700	13.760
18	1130.0	B.P.F-01-0121	170.00	17300	17.635
20	1390.0	B.P.F-01-0122	210.00	21400	21.410
22	1690.0	B.P.F-01-0123	255.00	25900	25.995
24	2010.0	B.P.F-01-0124	303.00	30800	30.885

طتاب فولادی ۸×۷ با مغزی فولادی



8×7+IWRC wire rope
 Construction: 7×7 (1+6) +7×7(1+6)
 DIN 3056

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	153.0	B.P.F-01-0125	22.30	2280	2.280
7	209.0	B.P.F-01-0126	30.40	3090	3.100
8	272.0	B.P.F-01-0127	39.70	4040	4.050
9	344.0	B.P.F-01-0128	50.30	5110	5.130
10	425.0	B.P.F-01-0129	62.10	6310	6.330
11	515.0	B.P.F-01-0130	75.10	7630	7.650
12	612.0	B.P.F-01-0131	89.40	9090	9.115
13	719.0	B.P.F-01-0132	105.00	10700	10.705
14	833.0	B.P.F-01-0133	122.00	12400	12.435
16	1090.0	B.P.F-01-0134	159.00	16200	16.210
18	1380.0	B.P.F-01-0135	201.00	20400	20.490
20	1700.0	B.P.F-01-0136	248.00	25300	25.300
22	2060.0	B.P.F-01-0137	300.00	30600	30.600
24	2450.0	B.P.F-01-0138	358.00	36300	36.495

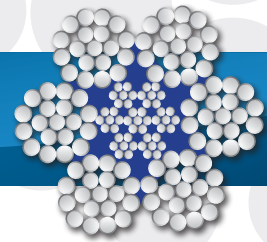


طناب فولادی ۶×۱۹ فیلر با مغزی کنفی

6×19 Filler + FC wire rope
Construction: 6×19 (1+6,6+12) +1FC
GOST 7665, DIN 3057

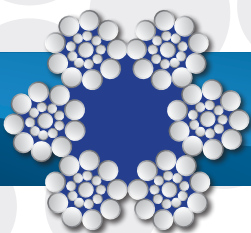
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	243.0	B.P.F-01-0139	38.30	3890	3.905
9	308.0	B.P.F-01-0140	48.40	4920	4.930
10	380.0	B.P.F-01-0141	59.80	6080	6.095
11	460.0	B.P.F-01-0142	72.30	7360	7.370
12	547.0	B.P.F-01-0143	86.10	8750	8.780
13	643.0	B.P.F-01-0144	101.00	10300	10.300
14	745.0	B.P.F-01-0145	117.00	11900	11.930
15	855.0	B.P.F-01-0146	135.00	13700	13.765
16	973.0	B.P.F-01-0147	153.00	15600	15.600
17	1100.0	B.P.F-01-0148	173.00	17600	17.635
18	1230.0	B.P.F-01-0149	194.00	19700	19.775
19	1370.0	B.P.F-01-0150	216.00	21900	22.020
20	1520.0	B.P.F-01-0151	239.00	24300	24.365
21	1600.0	B.P.F-01-0152	258.00	26300	26.300
22	1840.0	B.P.F-01-0153	289.00	29400	29.460
24	2190.0	B.P.F-01-0154	344.00	35000	35.065
26	2570.0	B.P.F-01-0155	404.00	41100	41.180
28	2980.0	B.P.F-01-0156	469.00	47700	47.810
29	3040.0	B.P.F-01-0157	491.00	50050	50.050
32	3890.0	B.P.F-01-0158	612.00	62200	62.385
35	4420.0	B.P.F-01-0159	716.00	72900	72.980
36	4930.0	B.P.F-01-0160	775.00	78800	79.000
38	5210.0	B.P.F-01-0161	843.00	85900	85.930
40	6080.0	B.P.F-01-0162	956.00	97300	97.450
44	4360.0	B.P.F-01-0163	1160.00	118000	118.250
48	8320.0	B.P.F-01-0164	1346.00	137200	137.205

طناب فولادی ۶×۱۹ فیلر با مغزی فولادی



6×19 Filler+IWRC wire rope
Construction: 6×19 (1+6,6+12) +7×7(1+6)
GOST 7667, DIN 3057

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	267.0	B.P.F-01-0165	41.30	4200	4.210
9	339.0	B.P.F-01-0166	52.20	5310	5.320
10	418.0	B.P.F-01-0167	64.60	6570	6.585
11	506.0	B.P.F-01-0168	78.10	7950	7.960
12	602.0	B.P.F-01-0169	93.00	9450	9.480
13	707.0	B.P.F-01-0170	109.00	11100	11.115
14	820.0	B.P.F-01-0171	127.00	12900	12.945
15	941.0	B.P.F-01-0172	145.00	14800	14.800
16	1070.0	B.P.F-01-0173	165.00	16800	16.820
17	1210.0	B.P.F-01-0174	187.00	19000	19.050
18	1350.0	B.P.F-01-0175	209.00	21300	21.310
19	1510.0	B.P.F-01-0176	233.00	23700	23.750
20	1670.0	B.P.F-01-0177	258.00	26200	26.300
22	2020.0	B.P.F-01-0178	312.00	31800	31.810
24	2410.0	B.P.F-01-0179	372.00	37800	37.920
26	2830.0	B.P.F-01-0180	436.00	44400	44.450
28	3280.0	B.P.F-01-0181	506.00	51500	51.580
32	4280.0	B.P.F-01-0182	661.00	67200	67.380
36	5420.0	B.P.F-01-0183	837.00	85100	85.320
38	5750.0	B.P.F-01-0184	910.00	92750	92.760
40	6690.0	B.P.F-01-0185	1030.00	105000	105.00
44	8100.0	B.P.F-01-0186	1250.00	127000	127.420
48	9170.0	B.P.F-01-0187	1452.00	148000	148.010
52	10760.0	B.P.F-01-0188	1704.00	173500	173.700
54	11610.0	B.P.F-01-0189	1837.00	187200	187.250
56	12480.0	B.P.F-01-0190	1976.00	201400	201.430
60	14330.0	B.P.F-01-0191	2268.00	231150	231.190
64	16600.0	B.P.F-01-0192	2689.00	274100	274.110

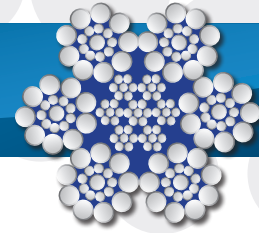


طناب فولادی ۶×۱۹ سیل با مغزی کنفی

6×19 Seale + FC wire rope
Construction: 6×19 (1+9+9) +1FC
GOST 3077, DIN 3058

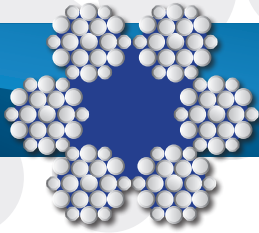
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	134.0	B.P.F-01-0193	21.10	2140	2.150
7	183.0	B.P.F-01-0194	28.70	2920	2.925
8	238.0	B.P.F-01-0195	37.50	3810	3.825
9	302.0	B.P.F-01-0196	47.40	4830	4.832
10	373.0	B.P.F-01-0197	58.60	5960	5.975
11	451.0	B.P.F-01-0198	70.90	7210	7.230
12	537.0	B.P.F-01-0199	84.30	8580	8.595
13	630.0	B.P.F-01-0200	99.00	10100	10.100
14	730.0	B.P.F-01-0201	115.00	11700	11.725
15	838.0	B.P.F-01-0202	132.00	13400	13.455
16	954.0	B.P.F-01-0203	150.00	15300	15.300
17	1080.0	B.P.F-01-0204	169.00	17200	17.230
18	1210.0	B.P.F-01-0205	190.00	19300	19.370
19	1350.0	B.P.F-01-0206	211.00	21500	21.510
20	1490.0	B.P.F-01-0207	234.00	23800	23.850
22	1800.0	B.P.F-01-0208	283.00	28800	28.850
24	2150.0	B.P.F-01-0209	337.00	34300	34.350
26	2520.0	B.P.F-01-0210	396.00	40300	40.370
28	2920.0	B.P.F-01-0211	459.00	46700	46.790
32	3820.0	B.P.F-01-0212	600.00	61000	61.170
36	4830.0	B.P.F-01-0213	759.00	77200	77.370
38	5210.0	B.P.F-01-0214	843.00	85900	85.930

طناب فولادی ۶×۱۹ سیل با مغزی فولادی



6×19 Seale IWRC wire rope
Construction: 6×19 (1+9+9) +7×7(1+6)
GOST 3081, DIN 3058

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	147.0	B.P.F-01-0215	22.70	2310	2.315
7	201.0	B.P.F-01-0216	30.90	3150	3.150
8	262.0	B.P.F-01-0217	40.50	4110	4.130
9	332.0	B.P.F-01-0218	51.20	5220	5.220
10	410.0	B.P.F-01-0219	63.30	6440	6.450
11	496.0	B.P.F-01-0220	76.50	7790	7.800
12	590.0	B.P.F-01-0221	91.10	9270	9.285
13	693.0	B.P.F-01-0222	107.00	10900	10.910
14	803.0	B.P.F-01-0223	124.00	12600	12.640
15	922.0	B.P.F-01-0224	142.00	14500	14.475
16	1050.0	B.P.F-01-0225	162.00	16500	16.515
17	1190.0	B.P.F-01-0226	183.00	18600	18.655
18	1330.0	B.P.F-01-0227	205.00	20800	20.900
19	1490.0	B.P.F-01-0228	228.00	23200	23.245
20	1640.0	B.P.F-01-0229	253.00	25700	25.790
22	1980.0	B.P.F-01-0230	306.00	31100	31.195
24	2370.0	B.P.F-01-0231	364.00	37000	37.110
26	2770.0	B.P.F-01-0232	428.00	43500	43.630
28	3210.0	B.P.F-01-0233	496.00	50400	50.560
32	4200.0	B.P.F-01-0234	648.00	65900	66.050
34	4923.0	B.P.F-01-0235	772.00	78700	78.700
36	5310.0	B.P.F-01-0236	820.00	83400	83.590
38	5935.0	B.P.F-01-0237	843.00	85900	85.930
40	6723.0	B.P.F-01-0238	868.00	88400	88.480
43	7585.0	B.P.F-01-0239	906.00	92300	92.350
45	8605.0	B.P.F-01-0240	947.00	96500	96.540

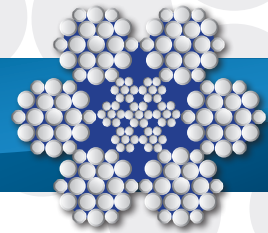


طناب فولادی ۶×۱۹ وارینگتون با مغزی کنفی

6×19 Warrington + FC wire rope
Construction: 6×19 (1+6+6/6) +1FC
GOST 2688, DIN 3059

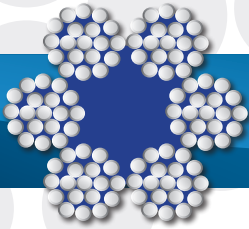
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	134.0	B.P.F-01-0241	21.10	2140	2.150
7	183.0	B.P.F-01-0242	28.70	2920	2.925
8	238.0	B.P.F-01-0243	37.50	3810	3.825
9	302.0	B.P.F-01-0244	47.50	4830	4.840
10	373.0	B.P.F-01-0245	58.60	5960	5.975
11	451.0	B.P.F-01-0246	70.90	7210	7.230
12	537.0	B.P.F-01-0247	84.40	8580	8.600
13	630.0	B.P.F-01-0248	98.90	10100	10.100
14	730.0	B.P.F-01-0249	114.00	11700	11.700
15	838.0	B.P.F-01-0250	132.00	13400	13.455
16	954.0	B.P.F-01-0251	150.00	15300	15.300
17	1080.0	B.P.F-01-0252	169.00	17200	17.230
18	1210.0	B.P.F-01-0253	190.00	19300	19.370
19	1350.0	B.P.F-01-0254	212.00	21500	21.600
20	1490.0	B.P.F-01-0255	234.00	23800	28.850
22	1800.0	B.P.F-01-0256	284.00	28800	28.950
24	2150.0	B.P.F-01-0257	337.00	34300	34.350
26	2520.0	B.P.F-01-0258	396.00	40300	40.370
28	2920.0	B.P.F-01-0259	459.00	46700	46.790
32	3820.0	B.P.F-01-0260	597.00	61000	61.000
36	4830.0	B.P.F-01-0261	759.00	77200	77.370
40	5740.0	B.P.F-01-0262	856.00	87200	87.260
42	6535.0	B.P.F-01-0263	975.00	99300	99.390
44	7385.0	B.P.F-01-0264	1094.00	111500	111.520
48	8430.0	B.P.F-01-0265	1330.00	135500	135.575
51	9545.0	B.P.F-01-0266	1447.00	147500	147.510
56	11650.0	B.P.F-01-0267	1752.00	178500	178.600

طناب فولادی ۹×۱۶ وارینگتون با مغزی فولادی



6×19 Warrington+ IWRC wire rope
Construction: 6×19 (1+3+6,6) +7×7(1+6)
GOST 14954, DIN 3059

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	147.0	B.P.F-01-0268	22.80	2320	2.325
7	201.0	B.P.F-01-0269	30.90	3150	3.150
8	262.0	B.P.F-01-0270	40.50	4110	4.130
9	332.0	B.P.F-01-0271	51.20	5220	5.220
10	410.0	B.P.F-01-0272	63.30	6440	6.450
11	496.0	B.P.F-01-0273	76.50	7790	7.800
12	590.0	B.P.F-01-0274	91.10	9270	9.285
13	693.0	B.P.F-01-0275	107.00	10900	10.910
14	803.0	B.P.F-01-0276	124.00	12600	12.640
15	922.0	B.P.F-01-0277	142.00	14500	14.475
16	1050.0	B.P.F-01-0278	162.00	16500	16.515
17	1190.0	B.P.F-01-0279	183.00	18600	18.655
18	1330.0	B.P.F-01-0280	205.00	20800	20.900
19	1490.0	B.P.F-01-0281	228.00	23200	23.245
20	1640.0	B.P.F-01-0282	253.00	25700	25.790
22	1980.0	B.P.F-01-0283	306.00	31100	31.195
24	2370.0	B.P.F-01-0284	364.00	37000	37.110
26	2770.0	B.P.F-01-0285	428.00	43500	43.630
28	3210.0	B.P.F-01-0286	496.00	50400	50.560
32	4200.0	B.P.F-01-0287	648.00	65900	66.050
36	5310.0	B.P.F-01-0288	820.00	83400	83.590
38	6190.0	B.P.F-01-0289	980.00	99850	99.890
41	7050.0	B.P.F-01-0290	1115.00	113600	113.650
46	9065.0	B.P.F-01-0291	1360.00	138500	138.600
50	10250.0	B.P.F-01-0292	1655.00	168700	168.710
55	12650.0	B.P.F-01-0293	1950.00	198600	198.750

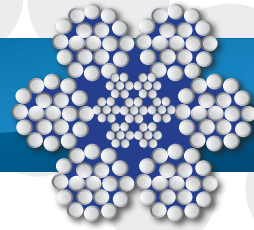


طناب فولادی ۶×۱۹ استاندارد با مغزی کنفی

6×19 Standard + FC wire rope
Construction: 6×19 (1+6+12) +1FC
GOST 3070, DIN 3060

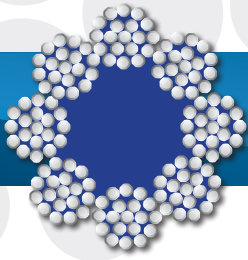
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
3	31.0	B.P.F-01-0294	4.90	498	0.500
4	55.0	B.P.F-01-0295	8.70	885	0.890
5	89.0	B.P.F-01-0296	13.60	1380	1.390
6	125.0	B.P.F-01-0297	19.60	1990	2.000
7	170.0	B.P.F-01-0298	26.70	2710	2.720
8	221.0	B.P.F-01-0299	34.80	3540	3.550
9	280.0	B.P.F-01-0300	44.10	4480	4.500
10	346.0	B.P.F-01-0301	54.40	5530	5.550
11	419.0	B.P.F-01-0302	65.80	6690	6.710
12	498.0	B.P.F-01-0303	78.30	7970	7.980
13	585.0	B.P.F-01-0304	91.90	9350	9.370
14	678.0	B.P.F-01-0305	107.00	10800	10.910
16	886.0	B.P.F-01-0306	139.00	14200	14.200
18	1120.0	B.P.F-01-0307	176.00	17900	17.940
20	1380.0	B.P.F-01-0308	218.00	22100	22.225
22	1670.0	B.P.F-01-0309	263.00	26800	26.810
24	1990.0	B.P.F-01-0310	313.00	31900	31.910
26	2340.0	B.P.F-01-0311	368.00	37400	37.515
28	2710.0	B.P.F-01-0312	426.00	43400	43.425
30	2955.0	B.P.F-01-0313	507.00	51600	51.680
32	3540.0	B.P.F-01-0314	557.00	56600	56.780
34	3778.0	B.P.F-01-0315	650.00	66000	66.260
36	4480.0	B.P.F-01-0316	705.00	71700	71.865
38	4701.0	B.P.F-01-0317	806.00	82100	82.160
40	5540.0	B.P.F-01-0318	870.00	88500	88.690
42	6502.0	B.P.F-01-0319	988.00	100700	101.730
44	6700.0	B.P.F-01-0320	1050.00	107000	107.050
46	6890.0	B.P.F-01-0321	1180.00	120400	120.400
48	7970.0	B.P.F-01-0322	1250.00	127000	127.420
50	9100.0	B.P.F-01-0323	1433.00	146000	146.000
53	1022.0	B.P.F-01-0324	1600.00	163100	164.000
56	1142.0	B.P.F-01-0325	1796.00	183000	183.000
60	1310.0	B.P.F-01-0326	2060.00	210000	210.000
63	1445.0	B.P.F-01-0327	2276.00	232000	232.000

طناب فولادی ۱۹×۶ استاندارد با مغزی فولادی



6×19 Standard + IWRC wire rope
Construction: 6×19 (1+6+12) + 7×7(1+6)
GOST 3067, DIN 3060

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
3	34.0	B.P.F-01-0328	5.30	537	0.540
4	61.0	B.P.F-01-0329	9.40	950	0.960
5	95.0	B.P.F-01-0330	14.60	1490	1.490
6	138.0	B.P.F-01-0331	21.10	2140	2.150
7	187.0	B.P.F-01-0332	28.80	2920	2.935
8	243.0	B.P.F-01-0333	37.60	3820	3.830
9	308.0	B.P.F-01-0334	47.60	4840	4.850
10	381.0	B.P.F-01-0335	58.80	5970	5.995
11	461.0	B.P.F-01-0336	71.10	7230	7.250
12	548.0	B.P.F-01-0337	84.60	8610	8.625
13	643.0	B.P.F-01-0338	99.30	10100	10.125
14	746.0	B.P.F-01-0339	115.00	11700	11.725
16	974.0	B.P.F-01-0340	150.00	15300	15.300
18	1230.0	B.P.F-01-0341	190.00	19300	19.370
20	1520.0	B.P.F-01-0342	235.00	23900	23.955
22	1840.0	B.P.F-01-0343	284.00	28900	28.950
24	2190.0	B.P.F-01-0344	338.00	34500	34.500
26	2570.0	B.P.F-01-0345	397.00	40400	40.470
28	2980.0	B.P.F-01-0346	461.00	46900	46.995
30	3580.0	B.P.F-01-0347	508.00	51700	51.780
32	3900.0	B.P.F-01-0348	602.00	61100	61.365
34	4710.0	B.P.F-01-0349	662.00	67500	67.500
36	4930.0	B.P.F-01-0350	761.00	77400	77.570
38	5890.0	B.P.F-01-0351	820.00	83500	83.590
40	6090.0	B.P.F-01-0352	940.00	95600	95.820
42	6850.0	B.P.F-01-0353	1032.00	105100	105.200
44	7370.0	B.P.F-01-0354	1140.00	116000	116.210
46	8250.0	B.P.F-01-0355	1255.00	128000	128.000
48	8770.0	B.P.F-01-0356	1350.00	137000	137.600
50	9120.0	B.P.F-01-0357	1619.00	165000	165.000
53	11.35.0	B.P.F-01-0358	1815.00	185000	185.000
56	1267.0	B.P.F-01-0359	2010.00	204900	205.000
60	1450.0	B.P.F-01-0360	2255.00	229850	230.000
63	1603.0	B.P.F-01-0361	2550.00	259900	260.000

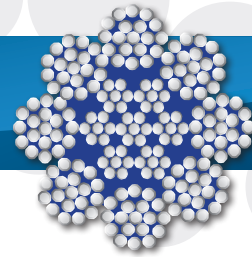


طناب فولادی ۸ × ۱۹ فیلر با مغزی کنفی

8×19 Warrington + FC wire rope
Construction: 8×19 (1+6/6+12) +1FC
DIN 3061

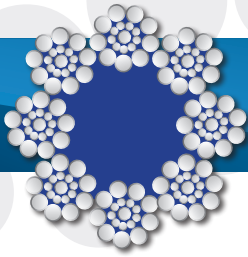
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
10	357.0	B.P.F-01-0362	52.00	5280	5.300
11	431.0	B.P.F-01-0363	62.90	6390	6.410
12	513.0	B.P.F-01-0364	74.80	7610	7.625
13	602.0	B.P.F-01-0365	87.80	8930	8.950
14	699.0	B.P.F-01-0366	102.00	10400	10.400
15	802.0	B.P.F-01-0367	117.00	11900	11.925
16	913.0	B.P.F-01-0368	133.00	13500	13.560
17	1030.0	B.P.F-01-0369	150.00	15300	15.300
18	1160.0	B.P.F-01-0370	168.00	17100	17.125
19	1290.0	B.P.F-01-0371	188.00	19100	19.165
20	1430.0	B.P.F-01-0372	208.00	21100	21.200
22	1730.0	B.P.F-01-0373	252.00	25600	25.690
24	2050.0	B.P.F-01-0374	299.00	30400	30.480
26	2410.0	B.P.F-01-0375	351.00	35700	35.780
28	2790.0	B.P.F-01-0376	407.00	41400	41.490
32	3650.0	B.P.F-01-0377	532.00	54100	54.230
36	4620.0	B.P.F-01-0378	673.00	68500	68.600
40	5700.0	B.P.F-01-0379	831.00	84500	84.700
44	6900.0	B.P.F-01-0380	1000.00	102000	102.000
48	8210.0	B.P.F-01-0381	1200.00	122000	122.325
52	9640.0	B.P.F-01-0382	1410.00	143000	143.730
56	11200.0	B.P.F-01-0383	1630.00	166000	166.160

طناب فولادی ۸ × ۱۹ فیلر با مغزی فولادی



8×19 Filler + IWRC wire rope
Construction: 8×19 (1+6,6+12) + 7×7(1+6)
DIN 3061

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
10	435.0	B.P.F-01-0384	61.30	6230	6.250
11	526.0	B.P.F-01-0385	74.20	7540	7.565
12	626.0	B.P.F-01-0386	88.20	8980	8.990
13	734.0	B.P.F-01-0387	103.00	10530	10.530
14	852.0	B.P.F-01-0388	120.00	12200	12.230
15	979.0	B.P.F-01-0389	138.00	14000	14.050
16	1110.0	B.P.F-01-0390	157.00	16000	16.005
17	1260.0	B.P.F-01-0391	177.00	18000	18.050
18	1410.0	B.P.F-01-0392	199.00	20200	20.285
19	1570.0	B.P.F-01-0393	221.00	22500	22.530
20	1740.0	B.P.F-01-0394	245.00	24900	24.975
22	2100.0	B.P.F-01-0395	297.00	30200	30.275
24	2510.0	B.P.F-01-0396	353.00	35900	35.980
26	2940.0	B.P.F-01-0397	414.00	42100	42.200
28	3410.0	B.P.F-01-0398	481.00	48900	49.050
32	4450.0	B.P.F-01-0399	628.00	63800	64.000
36	5640.0	B.P.F-01-0400	795.00	80800	81.050
40	6960.0	B.P.F-01-0401	981.00	99800	100.000
44	8420.0	B.P.F-01-0402	1190.00	121000	121.300
48	10000.0	B.P.F-01-0403	1410.00	144000	144.000
52	11800.0	B.P.F-01-0404	1660.00	169000	169.200
56	13600.0	B.P.F-01-0405	1930.00	196000	196.750

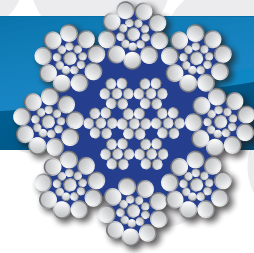


طناب فولادی ۸ × ۱۹ سیل با مغزی کنفی

8×19 Seale + FC wire rope
Construction: 8×19 (1+9+9) +1FC
DIN 3062

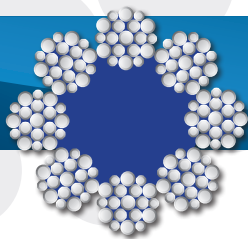
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	232.0	B.P.F-01-0406	32.40	3300	3.305
10	348.0	B.P.F-01-0407	50.80	5170	5.180
11	422.0	B.P.F-01-0408	61.70	6250	6.290
12	502.0	B.P.F-01-0409	73.30	7440	7.470
13	589.0	B.P.F-01-0410	85.70	8730	8.735
14	683.0	B.P.F-01-0411	99.10	10100	10.110
15	784.0	B.P.F-01-0412	114.00	11600	11.620
16	892.0	B.P.F-01-0413	130.00	13200	13.250
17	1010.0	B.P.F-01-0414	147.00	14900	14.985
18	1130.0	B.P.F-01-0415	164.00	16700	16.715
19	1260.0	B.P.F-01-0416	183.00	18600	18.655
20	1390.0	B.P.F-01-0417	203.00	20700	20.700
22	1690.0	B.P.F-01-0418	244.00	25000	25.000
24	2010.0	B.P.F-01-0419	290.00	29500	29.560
26	2360.0	B.P.F-01-0420	344.00	34900	35.050
28	2730.0	B.P.F-01-0421	400.00	40500	40.770
32	3570.0	B.P.F-01-0422	520.00	52900	53.000
36	4520.0	B.P.F-01-0423	658.00	66900	67.080
40	5570.0	B.P.F-01-0424	813.00	82600	82.875
44	6750.0	B.P.F-01-0425	983.00	100000	100.200

طناب فولادی ۸ × ۱۹ سیل با مغزی فولادی



8×19 Seale + IWRC wire rope
Construction: 8×19 (1+9+9) + 7×7(1+6)
DIN 3062

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	283.0	B.P.F-01-0426	38.20	3890	3.895
10	425.0	B.P.F-01-0427	59.90	6100	6.105
11	514.0	B.P.F-01-0428	72.50	7380	7.390
12	612.0	B.P.F-01-0429	86.30	8780	8.800
13	719.0	B.P.F-01-0430	101.00	10300	10.300
14	833.0	B.P.F-01-0431	117.00	11900	11.930
15	957.0	B.P.F-01-0432	135.00	13700	13.760
16	1090.0	B.P.F-01-0433	153.00	15600	15.600
17	1230.0	B.P.F-01-0434	173.00	17600	17.635
18	1380.0	B.P.F-01-0435	194.00	19800	19.800
19	1530.0	B.P.F-01-0436	216.00	22000	22.050
20	1700.0	B.P.F-01-0437	239.00	24400	24.400
22	2060.0	B.P.F-01-0438	290.00	29500	29.560
24	2450.0	B.P.F-01-0439	345.00	35100	32.170
26	2870.0	B.P.F-01-0440	405.00	41200	41.285
28	3330.0	B.P.F-01-0441	469.00	47800	47.810
32	4350.0	B.P.F-01-0442	613.00	62400	62.500
36	5510.0	B.P.F-01-0443	777.00	79000	79.200
40	6800.0	B.P.F-01-0444	959.00	97500	97.750
44	8230.0	B.P.F-01-0445	1160.00	118000	118.250
36	6340.0	B.P.F-01-0063	1180.00	120000	120.285

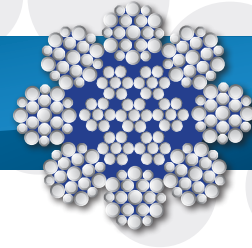


طناب فولادی ۸ × ۱۹ وارینگتون با مغزی کنفی

8×19 Warrington + FC wire rope
Construction: 8×19 (1+6+6/6) +1FC
DIN 3063

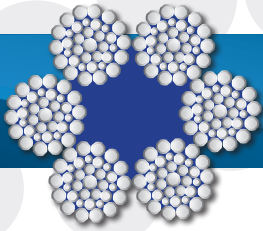
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	232.0	B.P.F-01-0446	32.40	3300	3.305
10	348.0	B.P.F-01-0447	50.80	5170	5.180
11	422.0	B.P.F-01-0448	61.70	6250	6.290
12	502.0	B.P.F-01-0449	73.30	7440	7.470
13	589.0	B.P.F-01-0450	85.70	8730	8.735
14	683.0	B.P.F-01-0451	99.10	10100	10.110
15	784.0	B.P.F-01-0452	114.00	11600	11.620
16	892.0	B.P.F-01-0453	130.00	13200	13.250
17	1010.0	B.P.F-01-0454	147.00	14900	14.985
18	1130.0	B.P.F-01-0455	164.00	16700	16.715
19	1260.0	B.P.F-01-0456	183.00	18600	18.655
20	1390.0	B.P.F-01-0457	203.00	20700	20.700
22	1690.0	B.P.F-01-0458	244.00	25000	25.000
24	2010.0	B.P.F-01-0459	290.00	29500	29.560
26	2360.0	B.P.F-01-0460	344.00	34900	35.050
28	2730.0	B.P.F-01-0461	400.00	40500	40.770
32	3570.0	B.P.F-01-0462	520.00	52900	53.000
36	4520.0	B.P.F-01-0463	658.00	66900	67.080
40	5570.0	B.P.F-01-0464	813.00	82600	82.875
44	6750.0	B.P.F-01-0465	983.00	100000	100.200

طناب فولادی ۸ × ۱۹ وارینگتون با مغزی فولادی



8×19 Warrington + IWRC wire rope
Construction: 8×19 (1+6+6/6) +7×7(1+6)
DIN 3063

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	283.0	B.P.F-01-0466	38.20	3890	3.895
10	425.0	B.P.F-01-0467	59.90	6100	6.105
11	514.0	B.P.F-01-0468	72.50	7380	7.390
12	612.0	B.P.F-01-0469	86.30	8780	8.800
13	719.0	B.P.F-01-0470	101.00	10300	10.300
14	833.0	B.P.F-01-0471	117.00	11900	11.930
15	957.0	B.P.F-01-0472	135.00	13700	13.760
16	1090.0	B.P.F-01-0473	153.00	15600	15.600
17	1230.0	B.P.F-01-0474	173.00	17600	17.635
18	1380.0	B.P.F-01-0475	194.00	19800	19.800
19	1530.0	B.P.F-01-0476	216.00	22000	22.050
20	1700.0	B.P.F-01-0477	239.00	24400	24.400
22	2060.0	B.P.F-01-0478	290.00	29500	29.560
24	2450.0	B.P.F-01-0479	345.00	35100	32.170
26	2870.0	B.P.F-01-0480	405.00	41200	41.285
28	3330.0	B.P.F-01-0481	469.00	47800	47.810
32	4350.0	B.P.F-01-0482	613.00	62400	62.500
36	5510.0	B.P.F-01-0483	777.00	79000	79.200
40	6800.0	B.P.F-01-0484	959.00	97500	97.750
44	8230.0	B.P.F-01-0485	1160.00	118000	118.250

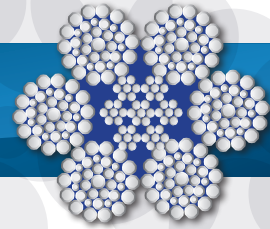


طناب فولادی ۶×۳۶ وارینگتون سیل با مغزی کنفی

6×36 Warrington-Seale + FC wire rope
Construction: 6×36 (1+7+14+14) +1FC
GOST 7668, DIN 3064

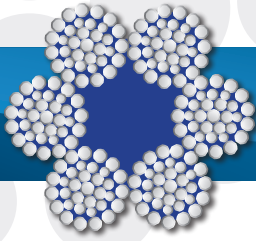
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	133.0	B.P.F-01-0486	21.00	2140	2.140
8	237.0	B.P.F-01-0487	37.30	3800	3.800
10	371.0	B.P.F-01-0488	58.40	5950	5.955
12	547.0	B.P.F-01-0489	84.00	8550	8.560
13	643.0	B.P.F-01-0490	98.30	10000	10.020
14	745.0	B.P.F-01-0491	114.00	11600	11.620
16	973.0	B.P.F-01-0492	149.00	15200	15.200
18	1230.0	B.P.F-01-0493	189.00	19200	19.260
20	1520.0	B.P.F-01-0494	234.00	23800	23.850
22	1840.0	B.P.F-01-0495	282.00	28700	28.750
24	2190.0	B.P.F-01-0496	336.00	34200	34.250
26	2570.0	B.P.F-01-0497	395.00	40100	40.265
28	2980.0	B.P.F-01-0498	458.00	46600	46.685
30	3560.0	B.P.F-01-0499	532.00	54200	54.200
32	3890.0	B.P.F-01-0500	598.00	60800	60.960
34	4580.0	B.P.F-01-0501	684.00	69700	69.700
36	4930.0	B.P.F-01-0502	757.00	77000	77.165
38	5720.0	B.P.F-01-0503	853.00	86950	87.000
40	6080.0	B.P.F-01-0504	934.00	95000	95.210
42	6980.0	B.P.F-01-0505	1040.00	106000	106.000
44	7360.0	B.P.F-01-0506	1130.00	115000	115.120
46	8380.0	B.P.F-01-0507	1255.00	127900	128.000
48	8760.0	B.P.F-01-0508	1350.00	137000	137.615
50	9900.0	B.P.F-01-0509	1480.00	150000	151.000
52	10300.0	B.P.F-01-0510	1580.00	161000	161.050
54	11500.0	B.P.F-01-0511	1725.00	175850	176.000
56	11900.0	B.P.F-01-0512	1830.00	186000	186.540
58	13300.0	B.P.F-01-0513	1990.00	202850	203.000
60	14200.0	B.P.F-01-0514	2128.00	216900	217.000
62	15200.0	B.P.F-01-0515	2275.00	231900	232.000
64	16200.0	B.P.F-01-0516	2420.00	246700	247.000
66	17200.0	B.P.F-01-0517	2578.00	262800	263.000
68	18300.0	B.P.F-01-0518	2735.00	278800	279.000
70	19400.0	B.P.F-01-0519	2892.00	294800	295.000

طناب فولادی ۶×۳۶ وارینگتون سیل با مغزی فولادی



6×36 Warrington-Seale + FC wire rope
Construction: 6×36 (1+7+14+14) +7 ×7+1FC
GOST 7669, DIN 3064

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	262.0	B.P.F-01-0520	40.30	4100	4.110
9	331.0	B.P.F-01-0521	51.00	5195	5.202
10	409.0	B.P.F-01-0522	63.00	6420	6.430
12	602.0	B.P.F-01-0523	89.90	9230	9.170
13	707.0	B.P.F-01-0524	106.00	10800	10.800
14	820.0	B.P.F-01-0525	124.00	12600	12.650
16	1070.0	B.P.F-01-0526	161.00	16400	16.425
18	1350.0	B.P.F-01-0527	204.00	20800	20.810
20	1670.0	B.P.F-01-0528	252.00	25600	25.700
22	2020.0	B.P.F-01-0529	304.00	31000	31.010
24	2410.0	B.P.F-01-0530	363.00	36900	37.025
26	2830.0	B.P.F-01-0531	425.00	43300	43.350
28	3280.0	B.P.F-01-0532	493.00	50300	50.300
30	3970.0	B.P.F-01-0533	614.00	62600	62.600
32	4280.0	B.P.F-01-0534	644.00	65700	65.700
34	5100.0	B.P.F-01-0535	789.00	80400	80.400
36	5420.0	B.P.F-01-0536	816.00	83100	83.230
38	6370.0	B.P.F-01-0537	980.00	99900	100.000
40	6690.0	B.P.F-01-0538	983.00	100000	100.265
42	7780.0	B.P.F-01-0539	1206.00	123000	123.000
44	8100.0	B.P.F-01-0540	1220.00	124000	124.450
46	9330.0	B.P.F-01-0541	1442.00	147000	147.000
48	9640.0	B.P.F-01-0542	1450.00	148000	148.000
50	11000.0	B.P.F-01-0543	1676.00	170900	171.000
52	11300.0	B.P.F-01-0544	1700.00	173000	173.400
54	12900.0	B.P.F-01-0545	1990.00	202900	203.000
56	13100.0	B.P.F-01-0546	1975.00	201000	201.450
58	14800.0	B.P.F-01-0547	2294.00	233900	234.000
60	15900.0	B.P.F-01-0548	2450.00	249800	250.000
62	16900.0	B.P.F-01-0549	2618.00	266000	267.000
64	18100.0	B.P.F-01-0550	2804.00	289500	286.000
66	19200.0	B.P.F-01-0551	2970.00	302700	303.000
68	20400.0	B.P.F-01-0552	3157.00	321200	322.000
70	21600.0	B.P.F-01-0553	3343.00	340700	341.000

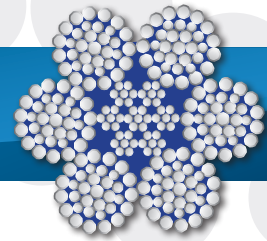


طناب فولادی ۶×۳۵ وارینگتون با مغزی کنفی

6×35 Warrington-Seale + FC wire rope
Construction: 6×35 (1+6+12+16) +1FC
DIN 3065

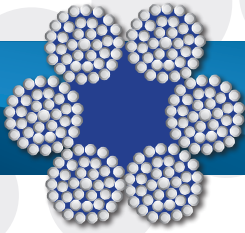
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	234.0	B.P.F-01-0554	35.90	3650	3.660
9	296.0	B.P.F-01-0555	45.40	4620	4.630
10	365.0	B.P.F-01-0556	56.10	5700	5.725
11	442.0	B.P.F-01-0557	67.80	6900	6.915
12	526.0	B.P.F-01-0558	80.70	8210	8.230
13	617.0	B.P.F-01-0559	94.70	9630	9.660
14	715.0	B.P.F-01-0560	110.00	11200	11.220
16	934.0	B.P.F-01-0561	143.00	14600	14.600
18	1180.0	B.P.F-01-0562	182.00	18500	18.560
20	1460.0	B.P.F-01-0563	224.00	22800	22.850
22	1770.0	B.P.F-01-0564	271.00	27600	27.650
24	2100.0	B.P.F-01-0565	323.00	32800	32.950
26	2470.0	B.P.F-01-0565	379.00	38500	38.650
28	2860.0	B.P.F-01-0567	439.00	44700	44.780
32	3740.0	B.P.F-01-0568	574.00	58400	58.550
36	4730.0	B.P.F-01-0569	726.00	73900	74.000
40	5840.0	B.P.F-01-0570	897.00	91200	91.500
44	7070.0	B.P.F-01-0571	1090.00	111000	111.180
48	8410.0	B.P.F-01-0572	1290.00	131000	131.600
52	9870.0	B.P.F-01-0573	1510.00	154000	154.050
56	11400.0	B.P.F-01-0574	1760.00	179000	179.500

طناب فولادی ۶×۳۵ وارینگتون با مغزی فولادی



6×35 Warrington + IWRC wire rope
Construction: 6×35 (1+6+12+16) + 7×7(1+6)
DIN 3065

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	257.0	B.P.F-01-0575	38.70	3940	3.950
9	326.0	B.P.F-01-0576	49.00	4980	4.990
10	402.0	B.P.F-01-0577	60.50	6160	6.170
11	486.0	B.P.F-01-0578	73.30	7450	7.475
12	578.0	B.P.F-01-0579	87.20	8860	8.895
13	679.0	B.P.F-01-0580	102.00	10400	10.400
14	787.0	B.P.F-01-0581	119.00	12100	12.140
16	1030.0	B.P.F-01-0582	155.00	15800	15.810
18	1300.0	B.P.F-01-0583	196.00	19900	19.990
20	1610.0	B.P.F-01-0584	242.00	24600	24.685
22	1940.0	B.P.F-01-0585	293.00	29800	29.885
24	2310.0	B.P.F-01-0586	349.00	35500	35.600
26	2710.0	B.P.F-01-0587	409.00	41600	41.720
28	3150.0	B.P.F-01-0588	475.00	48300	4.850
32	4110.0	B.P.F-01-0589	620.00	63000	63.250
36	5200.0	B.P.F-01-0590	785.00	79800	80.000
40	6420.0	B.P.F-01-0591	969.00	98500	98.835
44	7770.0	B.P.F-01-0592	1170.00	119000	119.350
48	9250.0	B.P.F-01-0593	1400.00	142000	142.800

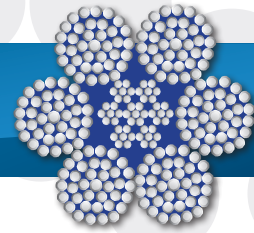


طناب فولادی ۶×۳۷ استاندارد با مغزی کنفی

6×37 Standard + FC wire rope
Construction: 6×37 (1+6+12+18) +1FC
GOST3071, DIN 3066

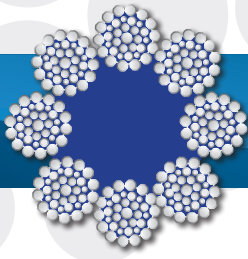
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	125.0	B.P.F-01-0594	18.80	1910	1.920
7	170.0	B.P.F-01-0595	25.60	2600	2.610
8	221.0	B.P.F-01-0596	33.40	3400	3.405
9	280.0	B.P.F-01-0597	42.30	4300	4.315
10	346.0	B.P.F-01-0598	52.20	5310	5.325
11	419.0	B.P.F-01-0599	63.10	6420	6.435
12	498.0	B.P.F-01-0600	75.10	7640	7.660
13	585.0	B.P.F-01-0601	88.20	8970	8.995
14	678.0	B.P.F-01-0602	102.00	10400	10.405
16	886.0	B.P.F-01-0603	134.00	13600	13.670
18	1120.0	B.P.F-01-0604	169.00	17200	17.240
20	1380.0	B.P.F-01-0605	209.00	21200	21.320
22	1670.0	B.P.F-01-0606	253.00	25700	25.800
24	1990.0	B.P.F-01-0607	301.00	30600	30.700
26	2340.0	B.P.F-01-0608	353.00	35900	36.000
28	2710.0	B.P.F-01-0609	409.00	41600	41.720
32	3540.0	B.P.F-01-0610	534.00	54300	54.470
36	4480.0	B.P.F-01-0611	676.00	68800	68.950
40	5540.0	B.P.F-01-0612	835.00	84900	85.170
44	6700.0	B.P.F-01-0613	1010.00	103000	103.020
48	7970.0	B.P.F-01-0614	1200.00	122000	122.400
52	9360.0	B.P.F-01-0615	1420.00	144000	144.850
56	10900.0	B.P.F-01-0616	1630.00	166000	166.250
60	12500.0	B.P.F-01-0617	1880.00	191000	191.750
64	14200.0	B.P.F-01-0618	2130.00	217000	217.250
67	16200.0	B.P.F-01-0619	2540.00	258900	259.000
71	18200.0	B.P.F-01-0620	2853.00	290000	291.000
75	20200.0	B.P.F-01-0621	3180.00	324000	324.000

طناب فولادی ۶×۳۷ استاندارد با مغزی فولادی



6×37 Warrington + IWRC wire rope
Construction: 6×37 (1+6+12+18) + 7×7(1+6)
GOST3068, DIN 3066

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	138.0	B.P.F-01-0622	20.30	2060	2.070
7	187.0	B.P.F-01-0623	27.60	2800	2.815
8	244.0	B.P.F-01-0624	36.10	3670	3.680
9	308.0	B.P.F-01-0625	45.70	4640	4.660
10	381.0	B.P.F-01-0626	56.40	5730	5.750
11	461.0	B.P.F-01-0627	68.20	6930	6.950
12	548.0	B.P.F-01-0628	81.20	8250	8.285
13	643.0	B.P.F-01-0629	95.20	9690	9.710
14	746.0	B.P.F-01-0630	110.00	11200	11.220
16	974.0	B.P.F-01-0631	144.00	14700	14.700
18	1230.0	B.P.F-01-0632	183.00	18600	18.660
20	1520.0	B.P.F-01-0633	225.00	22900	22.950
22	1840.0	B.P.F-01-0634	273.00	27700	27.850
24	2190.0	B.P.F-01-0635	325.00	33000	33.150
26	2570.0	B.P.F-01-0636	381.00	38700	38.860
28	2980.0	B.P.F-01-0637	442.00	44900	45.080
32	3900.0	B.P.F-01-0638	577.00	58700	58.815
36	4930.0	B.P.F-01-0639	730.00	74300	74.460
40	6090.0	B.P.F-01-0640	902.00	91700	92.000
44	7370.0	B.P.F-01-0641	1090.00	111000	111.180
48	8770.0	B.P.F-01-0642	1300.00	132000	132.600
52	10300.0	B.P.F-01-0643	1520.00	155000	155.050
56	11900.0	B.P.F-01-0644	1770.00	180000	180.540
60	13700.0	B.P.F-01-0645	2020.00	206000	206.050
64	15600.0	B.P.F-01-0646	2310.00	235000	235.620
67	17870.0	B.P.F-01-0647	2853.00	290800	291.000
71	20060.0	B.P.F-01-0648	3206.00	326800	327.000
75	22390.0	B.P.F-01-0649	3580.00	365000	365.000

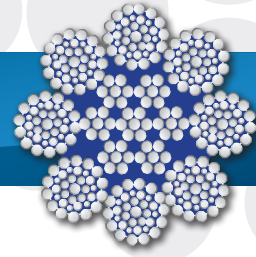


طناب فولادی ۸×۳۶ وارینگتون سیل با مغزی کنفی

8×36 Standard + FC wire rope
Construction: 8×36 (1+7+14+14) +1FC
DIN 3067

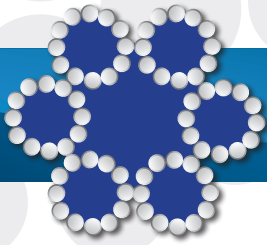
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
16	913.0	B.P.F-01-0650	130.00	13200	13.260
18	1160.0	B.P.F-01-0651	164.00	16700	16.730
20	1430.0	B.P.F-01-0652	203.00	20600	20.700
22	1730.0	B.P.F-01-0653	246.00	25000	25.100
24	2050.0	B.P.F-01-0654	292.00	29700	29.785
26	2410.0	B.P.F-01-0655	343.00	34900	34.985
28	2790.0	B.P.F-01-0656	398.00	40400	40.600
32	3650.0	B.P.F-01-0657	519.00	52800	52.950
36	4620.0	B.P.F-01-0658	657.00	66900	67.100
40	5700.0	B.P.F-01-0659	812.00	82500	82.825
44	6900.0	B.P.F-01-0660	982.00	99900	100.150
48	8210.0	B.P.F-01-0661	1170.00	119000	119.350
52	9640.0	B.P.F-01-0662	1365.00	139000	139.230
56	11200.0	B.P.F-01-0663	1590.00	162000	162.180
60	12800.0	B.P.F-01-0664	1830.00	186000	186.650
64	14600.0	B.P.F-01-0665	2070.00	211000	211.150
68	16500.0	B.P.F-01-0666	2350.00	239000	239.700

طناب فولادی ۸×۳۶ وارینگتون سیل با مغزی فولادی



8×36 Warrington + IWRC wire rope
Construction: 8×36 (1+7+14+14) + 7×7(1+6)
DIN 3067

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
16	1110.0	B.P.F-01-0667	153.00	15600	15.610
18	1410.0	B.P.F-01-0668	194.00	19700	19.780
20	1740.0	B.P.F-01-0669	239.00	24300	24.380
22	2100.0	B.P.F-01-0670	290.00	29300	29.580
24	2510.0	B.P.F-01-0671	345.00	35100	35.190
26	2940.0	B.P.F-01-0672	405.00	41100	41.310
28	3410.0	B.P.F-01-0673	469.00	47700	47.850
32	4450.0	B.P.F-01-0674	613.00	62300	62.520
36	5640.0	B.P.F-01-0675	776.00	78900	79.150
40	6940.0	B.P.F-01-0676	958.00	97400	97.715
44	8420.0	B.P.F-01-0677	1160.00	118000	118.320
48	10000.0	B.P.F-01-0678	1380.00	140000	140.750
52	11800.0	B.P.F-01-0679	1620.00	165000	165.250
56	13600.0	B.P.F-01-0680	1880.00	191000	191.750
60	15700.0	B.P.F-01-0681	2150.00	219000	219.300
64	17800.0	B.P.F-01-0682	2445.00	249000	249.390
68	20100.0	B.P.F-01-0683	2760.00	281000	281.520

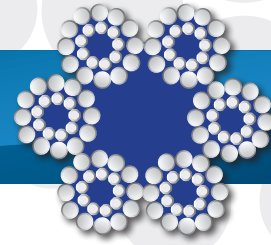


طناب فولادی ۱۲ × ۶ با مغزی کنفی

6×12 +7FC wire rope
Construction: 6×12 (12) +7FC

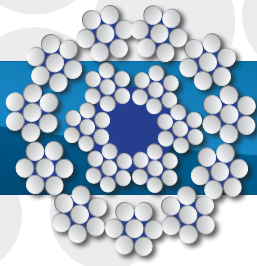
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	100.0	B.P.F-01-0684	12.80	1310	1.3050
7	130.0	B.P.F-01-0685	18.10	1850	1.850
8	160.0	B.P.F-01-0686	24.10	2470	2.470
9	220.0	B.P.F-01-0687	32.20	3290	3.290
10	260.0	B.P.F-01-0688	37.90	3870	3.870
11	300.0	B.P.F-01-0689	44.10	4480	4.495
12	340.0	B.P.F-01-0690	50.50	5150	5.150
13	440.0	B.P.F-01-0691	64.80	6610	6.610
14	490.0	B.P.F-01-0692	72.70	7420	7.420
15	550.0	B.P.F-01-0693	81.00	8260	8.260
16	610.0	B.P.F-01-0694	89.60	9150	9.150
18	880.0	B.P.F-01-0695	129.00	13190	13.190
20	1030.0	B.P.F-01-0696	151.00	15480	15.480
22	1300.0	B.P.F-01-0697	178.00	18200	18.200
24	1490.0	B.P.F-01-0698	212.00	21700	21.700
26	1780.0	B.P.F-01-0699	250.00	25500	25.500
28	2050.0	B.P.F-01-0700	290.00	29500	29.580
32	2720.0	B.P.F-01-0701	379.00	38500	38.650
36	3400.0	B.P.F-01-0702	495.00	50500	50.500
40	4210.0	B.P.F-01-0703	645.00	65900	65.900

طناب فولادی ۶×۲۴ با مغزی کنفی



6×24 +7FC wire rope
Construction: 6×24 (9+15) +7FC
DIN 3068

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	204.0	B.P.F-01-0704	34.30	3500	3.500
9	258.0	B.P.F-01-0705	43.40	4430	4.430
10	318.0	B.P.F-01-0706	53.60	5470	5.470
11	385.0	B.P.F-01-0707	66.10	6740	6.750
12	458.0	B.P.F-01-0708	77.20	7870	7.880
13	538.0	B.P.F-01-0709	86.80	8890	8.900
14	624.0	B.P.F-01-0710	105.00	10710	10.720
16	815.0	B.P.F-01-0711	137.00	14000	14.000
18	1030.0	B.P.F-01-0712	173.00	17700	17.700
20	1270.0	B.P.F-01-0713	214.00	21900	21.900
22	1540.0	B.P.F-01-0714	264.00	27000	26.700
24	1830.0	B.P.F-01-0715	308.00	31500	31.500
26	2150.0	B.P.F-01-0716	362.00	37000	37.000
28	2500.0	B.P.F-01-0717	419.00	42800	42.800
32	3260.0	B.P.F-01-0718	540.00	55100	55.100
36	4130.0	B.P.F-01-0719	684.00	69800	69.800
40	5090.0	B.P.F-01-0720	857.00	87400	87.500
44	6160.0	B.P.F-01-0721	1030.00	105000	105.050
48	7340.0	B.P.F-01-0722	1210.00	124000	124.000
52	8610.0	B.P.F-01-0723	1452.00	148000	148.100
56	9990.0	B.P.F-01-0724	1725.00	176000	176.000
58	11200.0	B.P.F-01-0725	1805.00	184000	184.000
60	12000.0	B.P.F-01-0726	1920.00	195800	196.000
63	13200.0	B.P.F-01-0727	2128.00	217000	217.000
67	14900.0	B.P.F-01-0728	2400.00	244500	245.000
71	16740.0	B.P.F-01-0729	2697.00	275000	275.000
75	18700.0	B.P.F-01-0730	3000.00	305800	306.000

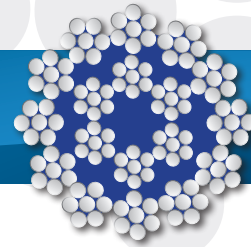


طناب فولادی ۱۷×۷ نتاب با مغزی کنفی

17×7 + FC non-rotating wire rope
Construction: 17×7 (1+16) + FC

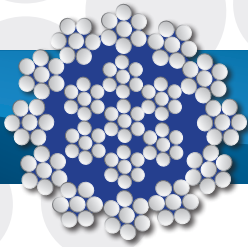
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
4	61.20	B.P.F-01-0731	9.00	917	0.920
5	95.70	B.P.F-01-0732	14.00	1430	1.430
6	138.0	B.P.F-01-0733	20.20	2060	2.060
7	188.0	B.P.F-01-0734	27.60	2810	2.815
8	245.0	B.P.F-01-0735	36.00	3670	3.675
9	310.0	B.P.F-01-0736	45.50	4640	4.650
10	383.0	B.P.F-01-0737	56.20	5730	5.730
11	463.0	B.P.F-01-0738	68.10	6940	6.950
12	551.0	B.P.F-01-0739	81.00	8260	8.265
13	647.0	B.P.F-01-0740	95.00	9690	9.700
14	750.0	B.P.F-01-0741	110.00	11200	11.220
16	980.0	B.P.F-01-0742	145.00	14700	14.800
18	1240.0	B.P.F-01-0743	183.00	18600	18.670
20	1530.0	B.P.F-01-0744	225.00	22900	22.950
22	1850.0	B.P.F-01-0745	273.00	27800	27.850
24	2200.0	B.P.F-01-0746	324.00	33000	33.050
26	2590.0	B.P.F-01-0747	381.00	38800	38.850
28	3000.0	B.P.F-01-0748	442.00	45000	45.100

طناب فولادی ۱۸×۷ تتاب با مغزی کنفی



18×7 +FC non-rotating wire rope
Construction: 18×7 (1+6) + FC
DIN 3069

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	138.0	B.P.F-01-0749	20.30	2060	2.070
7	188.0	B.P.F-01-0750	27.60	2810	2.820
8	245.0	B.P.F-01-0751	36.10	3670	3.680
9	310.0	B.P.F-01-0752	45.70	4640	4.660
10	383.0	B.P.F-01-0753	56.40	5730	5.750
11	463.0	B.P.F-01-0754	68.20	6940	6.950
12	551.0	B.P.F-01-0755	81.20	8260	8.280
13	647.0	B.P.F-01-0756	95.30	9690	9.720
14	750.0	B.P.F-01-0757	111.00	11200	11.320
16	980.0	B.P.F-01-0758	144.00	14700	14.680
18	1240.0	B.P.F-01-0759	183.00	18600	18.670
20	1530.0	B.P.F-01-0760	226.00	22900	23.050
22	1850.0	B.P.F-01-0761	273.00	27800	27.850
24	2200.0	B.P.F-01-0762	325.00	33000	33.150
26	2590.0	B.P.F-01-0763	381.00	38800	38.860
28	3000.0	B.P.F-01-0764	442.00	45000	45.080
32	3920.0	B.P.F-01-0765	577.00	58600	58.850
36	4970.0	B.P.F-01-0766	731.00	74300	74.560
40	6120.0	B.P.F-01-0767	903.00	91600	92.100
44	7420.0	B.P.F-01-0768	1086.00	110000	111.000
46	8980.0	B.P.F-01-0769	1375.00	140000	140.000
48	9170.0	B.P.F-01-0770	1500.00	153000	153.000
50	9950.0	B.P.F-01-0771	1628.00	166000	166.000
52	10800.0	B.P.F-01-0772	1755.00	178900	179.000
53	11200.0	B.P.F-01-0773	1824.00	185900	186.000
54	11600.0	B.P.F-01-0774	1902.00	193800	194.000
56	12500.0	B.P.F-01-0775	2040.00	207900	208.000
58	13400.0	B.P.F-01-0776	2187.00	222950	223.000
60	14300.0	B.P.F-01-0777	2343.00	238800	239.000

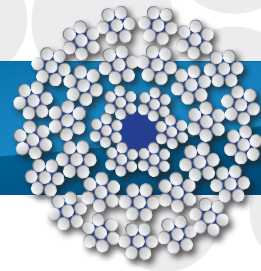


طناب فولادی ۱۹×۷ با مغزی فولادی

19×7 non-rotating + IWRC wire rope
Construction: 19×7 (1+6) + IWRC

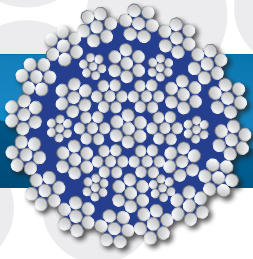
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
6	145.0	B.P.F-01-0778	20.90	2130	2.135
7	197.0	B.P.F-01-0779	28.50	2890	2.910
8	257.0	B.P.F-01-0780	37.20	3780	3.800
9	326.0	B.P.F-01-0781	47.00	4780	4.790
10	402.0	B.P.F-01-0782	58.10	5910	5.925
11	486.0	B.P.F-01-0783	70.30	7150	7.170
12	579.0	B.P.F-01-0784	83.60	8500	8.530
13	679.0	B.P.F-01-0785	98.10	9980	10.000
14	788.0	B.P.F-01-0786	114.00	11600	11.630
16	1030.0	B.P.F-01-0787	149.00	15100	15.200
18	1300.0	B.P.F-01-0788	188.00	19100	19.180
20	1610.0	B.P.F-01-0789	232.00	23600	23.670
22	1950.0	B.P.F-01-0790	281.00	28600	29.180
24	2310.0	B.P.F-01-0791	335.00	34000	34.170
26	2720.0	B.P.F-01-0792	393.00	39900	40.100
28	3150.0	B.P.F-01-0793	455.00	46300	46.410
32	4110.0	B.P.F-01-0794	595.00	60500	60.700
36	5210.0	B.P.F-01-0795	754.00	76600	76.900
40	6430.0	B.P.F-01-0796	931.00	94500	94.950
44	7780.0	B.P.F-01-0797	1120.00	114000	114.250
46	8870.0	B.P.F-01-0798	1460.00	148800	149.000
48	9650.0	B.P.F-01-0799	1589.00	162000	162.000
50	10500.0	B.P.F-01-0800	1725.50	175900	176.000
52	11300.0	B.P.F-01-0801	1873.00	190900	191.000
53	11800.0	B.P.F-01-0802	1942.00	197900	198.000
54	12200.0	B.P.F-01-0803	2020.00	206000	206.000
56	13100.0	B.P.F-01-0804	2167.00	220900	221.000
58	14100.0	B.P.F-01-0805	2324.00	236900	237.000
60	15100.0	B.P.F-01-0806	2490.00	253800	254.000

طناب فولادی ۳۴×۷ تتاب با مغزی کنفی



34×7 +FC non-rotating wire rope
Construction: 34×7 (1+6) + FC

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
9	316.0	B.P.F-01-0807	44.70	4550	4.560
10	391.0	B.P.F-01-0808	55.20	5620	5.630
11	471.0	B.P.F-01-0809	66.70	6800	6.810
12	561.0	B.P.F-01-0810	79.40	8090	8.100
13	656.0	B.P.F-01-0811	93.20	9500	9.510
14	764.0	B.P.F-01-0812	108.00	11000	11.020
16	999.0	B.P.F-01-0813	142.00	14400	14.485
18	1270.0	B.P.F-01-0814	179.00	18200	18.260
19	1410.0	B.P.F-01-0815	199.00	20300	20.300
20	1570.0	B.P.F-01-0816	220.00	22500	22.500
22	1890.0	B.P.F-01-0817	267.00	27200	27.230
24	2250.0	B.P.F-01-0818	318.00	32400	32.450
26	2640.0	B.P.F-01-0819	373.00	38000	38.050
28	3060.0	B.P.F-01-0820	433.00	44100	44.170
32	4000.0	B.P.F-01-0821	564.00	57500	57.530
35	4780.0	B.P.F-01-0822	675.00	68800	68.850
36	5060.0	B.P.F-01-0823	714.00	72800	72.830
38	5640.0	B.P.F-01-0824	797.00	81200	81.230
40	6240.0	B.P.F-01-0825	882.00	89900	89.970

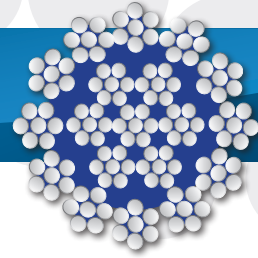


طناب فولادی ۳۵×۷ با مغزی فولادی

35×7 non-rotating + IWRC wire rope
Construction: 35×7 (1+6) + IWRC

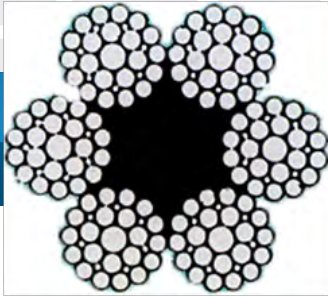
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	272.0	B.P.F-01-0826	42.20	4320	4.305
9	347.0	B.P.F-01-0827	53.80	5490	5.490
10	426.0	B.P.F-01-0828	66.40	6770	6.780
11	515.0	B.P.F-01-0829	80.30	8190	8.190
12	613.0	B.P.F-01-0830	95.60	9750	9.750
13	720.0	B.P.F-01-0831	112.00	11400	11.425
14	835.0	B.P.F-01-0832	130.00	13300	13.300
15	959.0	B.P.F-01-0833	149.00	15200	15.200
16	1090.0	B.P.F-01-0834	170.00	17300	17.350
18	1380.0	B.P.F-01-0835	215.00	21900	21.930
19	1540.0	B.P.F-01-0836	240.00	24500	24.500
20	1700.0	B.P.F-01-0837	266.00	27100	27.150
22	2060.0	B.P.F-01-0838	321.00	32700	32.750
24	2450.0	B.P.F-01-0839	382.00	39000	39.000
25	2660.0	B.P.F-01-0840	415.00	42300	42.350
26	2880.0	B.P.F-01-0841	449.00	45800	45.800
28	3340.0	B.P.F-01-0842	520.00	53000	53.050
30	3830.0	B.P.F-01-0843	597.00	60900	60.900
32	4360.0	B.P.F-01-0844	680.00	69300	69.350
34	4920.0	B.P.F-01-0845	767.00	78200	78.250
36	5520.0	B.P.F-01-0846	860.00	87700	87.750
38	6150.0	B.P.F-01-0847	958.00	97700	97.750

طناب فولادی ۱۸×۱۹ سیل تتاب با مغزی فولادی



18×19 + Seale non-rotating + IWRC wire rope
Construction: 18×19 (1+9+9) + IWRC
DIN 3088

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
16	998.0	B.P.F-01-0848	152.00	15500	15.500
18	1260.0	B.P.F-01-0849	192.00	19600	19.600
19	1410.0	B.P.F-01-0850	214.00	21800	21.850
20	1560.0	B.P.F-01-0851	237.00	24200	24.200
22	1890.0	B.P.F-01-0852	287.00	29300	29.300
24	2250.0	B.P.F-01-0853	342.00	34900	34.900
26	2640.0	B.P.F-01-0854	401.00	40900	40.910
28	3060.0	B.P.F-01-0855	465.00	47400	47.450
29	3280.0	B.P.F-01-0856	499.00	50900	50.900
30	3510.0	B.P.F-01-0857	534.00	54500	54.500
32	3990.0	B.P.F-01-0858	607.00	61900	61.920
34	4510.0	B.P.F-01-0859	685.00	69900	69.900
36	5050.0	B.P.F-01-0860	768.00	78300	78.350
38	5630.0	B.P.F-01-0861	856.00	87300	87.320
40	6240.0	B.P.F-01-0862	949.00	96800	96.800
42	6880.0	B.P.F-01-0863	1050.00	107000	107.100
44	7550.0	B.P.F-01-0864	1150.00	117000	117.300
46	8250.0	B.P.F-01-0865	1250.00	127000	127.500
48	8990.0	B.P.F-01-0866	1370.00	140000	140.000

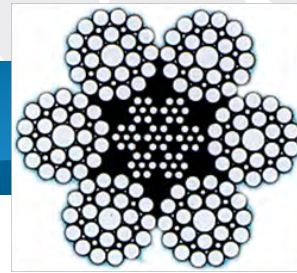


طناب فولادی ۶×۲۹ فیلر با مغز کنفی

6x29 Filler+Fc wire rope
Construction:6x29(1+7,7+14)+1Fc

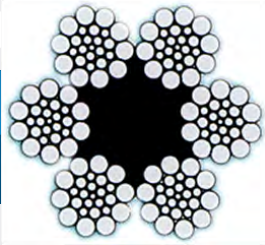
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.253	B.P.F-01-0867	37.9	3870	3.87
9	0.321	B.P.F-01-0868	48.0	4890	4.89
10	0.396	B.P.F-01-0869	59.2	6040	6.04
11.2	0.496	B.P.F-01-0870	74.3	7580	7.58
12.5	0.618	B.P.F-01-0871	92.5	9440	9.44
14	0.776	B.P.F-01-0872	116	11800	11.80
16	1.01	B.P.F-01-0873	152	15500	15.50
18	1.28	B.P.F-01-0874	192	19600	19.60
20	1.58	B.P.F-01-0875	237	24200	24.20
22.4	1.99	B.P.F-01-0876	297	30300	30.30
25	2.47	B.P.F-01-0877	370	37800	37.80
28	3.10	B.P.F-01-0878	464	47400	47.40
30	3.56	B.P.F-01-0879	533	54400	54.40
31.5	3.93	B.P.F-01-0880	588	59900	59.90
33.5	4.44	B.P.F-01-0881	665	67800	67.80
33.5	4.99	B.P.F-01-0882	746	76100	76.10
37.5	5.57	B.P.F-01-0883	833	84900	84.90
40	6.33	B.P.F-01-0884	948	96600	96.60
42.5	7.15	B.P.F-01-0885	1070	109000	109
45	8.01	B.P.F-01-0886	1200	122000	122
47.5	8.93	B.P.F-01-0887	1340	136000	136
50	9.90	B.P.F-01-0888	1480	151000	151
53	11.1	B.P.F-01-0889	1660	170000	170
56	12.4	B.P.F-01-0890	1860	189000	189
60	14.2	B.P.F-01-0891	2130	217000	217

طناب فولادی ۶×۲۹ فیلر با مغزی فولادی



6x29 Filler+IWRC wire rope
Construction: 6x29(1+7,7+14)+7x7(1+6)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.282	B.P.F-01-0892	43.3	4420	4.42
9	0.356	B.P.F-01-0893	54.8	5590	5.59
10	0.440	B.P.F-01-0894	67.7	6900	6.90
11.2	0.552	B.P.F-01-0895	84.9	8660	8.66
12.5	0.688	B.P.F-01-0896	106	10800	10.80
14	0.863	B.P.F-01-0897	133	13500	13.50
16	1.13	B.P.F-01-0898	173	17700	17.70
18	1.43	B.P.F-01-0899	219	22400	22.40
20	1.76	B.P.F-01-0900	271	27600	27.60
22.4	2.21	B.P.F-01-0901	340	34600	34.60
25	2.75	B.P.F-01-0902	423	43200	43.20
28	3.45	B.P.F-01-0903	531	54100	54.10
30	3.96	B.P.F-01-0904	609	62100	62.10
31.5	4.37	B.P.F-01-0905	672	68500	68.50
33.5	4.94	B.P.F-01-0906	760	77500	77.50
35.5	5.55	B.P.F-01-0907	853	87000	87.00
37.5	6.19	B.P.F-01-0908	952	97100	97.10
40	7.04	B.P.F-01-0909	1080	110000	110
42.5	7.95	B.P.F-01-0910	1220	125000	125
45	8.91	B.P.F-01-0911	1370	140000	140
47.5	9.93	B.P.F-01-0912	1530	156000	156
50	11.0	B.P.F-01-0913	1690	173000	173
53	12.4	B.P.F-01-0914	1900	194000	194
56	13.8	B.P.F-01-0915	2120	217000	217
60	15.8	B.P.F-01-0916	2440	249000	249

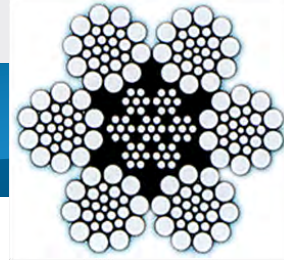


طناب فولادی ۶×۲۶ وارینگتون سیل با مغزی کنفی

6x26 warrington-seale+Fc wire rope
Construction: 6x29(1+5+5,5+10)+1Fc

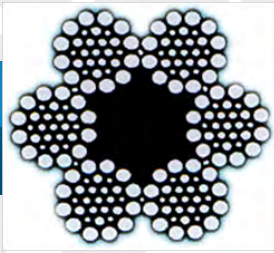
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.247	B.P.F-01-0917	37.2	3790	3.79
9	0.312	B.P.F-01-0918	47.0	4800	4.80
10	0.386	B.P.F-01-0919	58.1	5920	5.92
11.2	0.484	B.P.F-01-0920	72.8	7430	7.43
12	0.556	B.P.F-01-0921	83.6	8520	8.52
12.5	0.603	B.P.F-01-0922	90.7	9250	9.25
14	0.756	B.P.F-01-0923	114	11600	11.60
16	0.988	B.P.F-01-0924	149	15200	15.20
18	1.25	B.P.F-01-0925	188	19200	19.20
20	1.54	B.P.F-01-0926	232	23700	23.70
22.4	1.94	B.P.F-01-0927	291	29700	29.70
25	2.41	B.P.F-01-0928	363	37000	37.00
28	3.02	B.P.F-01-0929	455	46400	46.40
30	3.47	B.P.F-01-0930	523	53300	53.30
31.5	3.83	B.P.F-01-0931	576	58700	58.70
33.5	4.33	B.P.F-01-0932	652	66400	66.40
35.5	4.86	B.P.F-01-0933	732	74600	74.60
37.5	5.43	B.P.F-01-0934	816	83300	83.30
40	6.17	B.P.F-01-0935	929	94700	94.70
42.5	6.97	B.P.F-01-0936	1050	107000	107
45	7.81	B.P.F-01-0937	1180	120000	120
47.5	8.70	B.P.F-01-0938	1310	134000	134
50	9.65	B.P.F-01-0939	1450	148000	148

طناب فولادی ۶×۲۶ وارینگتون سیل با مغزی فولادی



6x26 warrington-seale+IWRC wire rope
Construction: 6x26(1+5+5,5+10)+7x7(1+6)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.275	B.P.F-01-0940	42.4	4320	4.32
9	0.348	B.P.F-01-0941	53.6	5470	5.47
10	0.430	B.P.F-01-0942	66.2	6750	6.75
11.2	0.539	B.P.F-01-0943	83.0	8470	8.47
12.5	0.672	B.P.F-01-0944	103	10500	10.50
14	0.843	B.P.F-01-0945	130	13200	13.20
16	1.10	B.P.F-01-0946	169	17300	17.30
18	1.39	B.P.F-01-0947	214	21900	21.90
20	1.72	B.P.F-01-0948	265	27000	27.00
22.4	2.16	B.P.F-01-0949	332	33900	33.90
25	2.69	B.P.F-01-0950	414	42200	42.20
28	3.37	B.P.F-01-0951	519	52900	52.90
30	3.87	B.P.F-01-0952	596	60700	60.70
31.5	4.27	B.P.F-01-0953	657	67000	67.00
33.5	4.83	B.P.F-01-0954	743	75700	75.70
35.5	5.42	B.P.F-01-0955	834	85100	85.10
37.5	6.05	B.P.F-01-0956	931	94900	94.90
40	6.88	B.P.F-01-0957	1060	108000	108
42.5	7.77	B.P.F-01-0958	1200	122000	122
45	8.71	B.P.F-01-0959	1340	137000	137
47.5	9.70	B.P.F-01-0960	1490	152000	152
50	10.8	B.P.F-01-0961	1650	169000	169

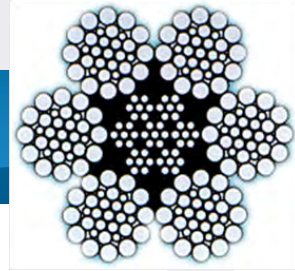


طناب فولادی ۶×۳۱ وارینگتون سیل با مغزی کنفی

6x31 warrington-seal+Fc wire rope
Construction: 6x31(1+6+6,6+12)+1Fc

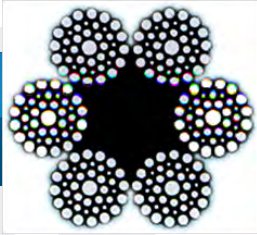
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
16	1.01	B.P.F-01-0962	152	15500	15.50
18	1.28	B.P.F-01-0963	192	19600	19.60
20	1.58	B.P.F-01-0964	237	24200	24.20
22.4	1.99	B.P.F-01-0965	297	30300	30.30
25	2.47	B.P.F-01-0966	370	37800	37.80
28	3.10	B.P.F-01-0967	464	47400	47.40
30	3.56	B.P.F-01-0968	533	54400	54.40
31.5	3.93	B.P.F-01-0969	588	59900	59.90
33.5	4.44	B.P.F-01-0970	665	67800	67.80
35.5	4.99	B.P.F-01-0971	746	76100	76.10
37.5	5.57	B.P.F-01-0972	833	84900	84.90
40	6.33	B.P.F-01-0973	984	96600	96.60
42.5	7.15	B.P.F-01-0974	1070	109000	109
45	8.01	B.P.F-01-0975	1200	122000	122
47.5	8.93	B.P.F-01-0976	1340	136000	136
50	9.90	B.P.F-01-0977	1480	151000	151
53	11.1	B.P.F-01-0978	1660	170000	170
56	12.4	B.P.F-01-0979	1860	189000	189
60	14.2	B.P.F-01-0980	2130	217000	217

طناب فولادی ۱×۳۱ وارینگتون سیل با مغزی فولادی



6x31 warrington-seale+IWRC wire rope
Construction: 6x31(1+6+6,6+12)+7+7(1+6)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
16	1.13	B.P.F-01-0981	173	17700	17.70
18	1.43	B.P.F-01-0982	219	22400	22.40
20	1.76	B.P.F-01-0983	271	27600	27.60
22.4	2.21	B.P.F-01-0984	340	34600	34.60
25	2.75	B.P.F-01-0985	423	43200	43.20
28	3.45	B.P.F-01-0986	531	54100	54.10
30	3.96	B.P.F-01-0987	609	62100	62.10
31.5	4.37	B.P.F-01-0988	672	68500	68.50
33.5	4.94	B.P.F-01-0989	760	77500	77.50
35.5	5.55	B.P.F-01-0990	853	87000	87.00
37.5	6.19	B.P.F-01-0991	852	97100	97.10
40	7.04	B.P.F-01-0992	1080	110000	110
42.5	7.95	B.P.F-01-0993	1220	125000	125
45	8.91	B.P.F-01-0994	1370	140000	140
47.5	9.93	B.P.F-01-0995	1530	156000	156
50	11.0	B.P.F-01-0996	1690	173000	173
53	12.4	B.P.F-01-0997	1900	194000	194
56	13.8	B.P.F-01-0998	1220	217000	217
60	15.8	B.P.F-01-0999	2440	249000	249

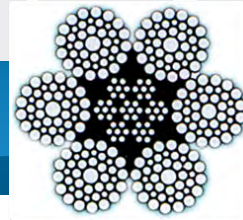


طناب فولادی ۶×۴۱ وارینگتون سیل با مغزی کنفی

6x41warrington-seale+Fc wire rope
Construction:6x41(1+8+8,8+16)+1Fc

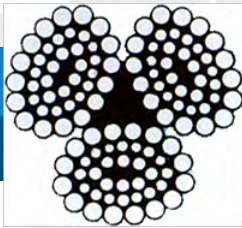
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
30	3.56	B.P.F-01-1000	533	54400	54.40
31.5	3.93	B.P.F-01-1001	588	59900	59.90
33.5	4.44	B.P.F-01-1002	665	67800	67.80
35.5	4.99	B.P.F-01-1003	746	76100	76.10
37.5	5.57	B.P.F-01-1004	833	84900	84.90
40	6.33	B.P.F-01-1005	948	96600	96.60
42.5	7.15	B.P.F-01-1006	1070	109000	109
45	8.01	B.P.F-01-1007	1200	122000	122
47.5	8.93	B.P.F-01-1008	1340	136000	136
50	9.90	B.P.F-01-1009	1480	151000	151
53	11.1	B.P.F-01-1010	1660	170000	170
56	12.4	B.P.F-01-1011	1860	189000	189
60	14.2	B.P.F-01-1012	2130	217000	217
63	15.7	B.P.F-01-1013	2350	240000	240
67	17.8	B.P.F-01-1014	2660	271000	271
71	20.0	B.P.F-01-1015	2990	304000	304
75	22.3	B.P.F-01-1016	3330	340000	340
80	25.3	B.P.F-01-1017	3790	387000	387
85	28.6	B.P.F-01-1018	4280	436000	436
90	32.1	B.P.F-01-1019	4800	489000	489
95	35.7	B.P.F-01-1020	5350	545000	545

طناب فولادی ۱×۴۶ وارینگتون سیل با مغزی فولادی



6x41 warrington-seale+IWRC wire rope
Construction: 6x41(1+8+8,8+16)+7x7(1+6)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
30	3.96	B.P.F-01-1021	609	62100	62.10
31.5	4.37	B.P.F-01-1022	672	68500	68.50
33.5	4.94	B.P.F-01-1023	760	77500	77.50
35.5	5.55	B.P.F-01-1024	853	87000	87.00
37.5	6.19	B.P.F-01-1025	952	97100	97.10
40	7.04	B.P.F-01-1026	1080	110000	110
42.5	7.95	B.P.F-01-1027	1220	125000	125
45	8.91	B.P.F-01-1028	1370	140000	140
47.5	9.93	B.P.F-01-1029	1530	156000	156
50	11.0	B.P.F-01-1030	1690	173000	173
53	12.4	B.P.F-01-1031	1900	194000	194
56	13.8	B.P.F-01-1032	2120	217000	217
60	15.8	B.P.F-01-1033	2440	249000	249
63	17.5	B.P.F-01-1034	2690	274000	274
67	19.8	B.P.F-01-1035	3040	310000	310
71	22.2	B.P.F-01-1036	3410	348000	348
75	24.8	B.P.F-01-1037	3810	388000	388
80	28.2	B.P.F-01-1038	4330	442000	442
85	31.8	B.P.F-01-1039	4890	499000	499
90	35.6	B.P.F-01-1040	5480	559000	559
95	39.7	B.P.F-01-1041	6110	623000	623

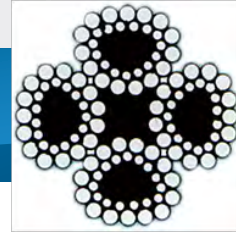


طناب فولادی ۳×۴۰

3x40 wire rope-MONO-ROPE EP
Construction:3xF(40)-3xF(a+8+8,8+16)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
10	0.436	B.P.F-01-1042	78.9	8050	8.05
11.2	0.547	B.P.F-01-1043	99.0	10100	10.10
12	0.628	B.P.F-01-1044	114	11600	11.60
12.5	0.681	B.P.F-01-1045	123	12600	12.60
14	0.855	B.P.F-01-1046	155	15800	15.80
16	1.12	B.P.F-01-1047	202	20600	20.60
18	1.41	B.P.F-01-1048	256	26100	26.10
20	1.74	B.P.F-01-1049	316	32200	32.20
22	2.11	B.P.F-01-1050	382	38900	38.90
22.4	2.19	B.P.F-01-1051	396	40400	40.40
24	2.51	B.P.F-01-1052	455	46400	46.40
25	2.73	B.P.F-01-1053	493	50300	50.30
26	2.95	B.P.F-01-1054	533	54400	54.40
28	3.42	B.P.F-01-1055	619	63100	63.10
30	3.92	B.P.F-01-1056	710	72400	72.40
31.5	4.33	B.P.F-01-1057	783	79800	79.80
32	4.47	B.P.F-01-1058	808	82400	82.40
33.5	4.89	B.P.F-01-1059	886	90300	90.30
34	5.04	B.P.F-01-1060	912	93000	93.00
35.5	5.50	B.P.F-01-1061	994	101000	101
36	5.65	B.P.F-01-1062	1020	104000	104
37.5	6.13	B.P.F-01-1063	1110	113000	113
38	6.30	B.P.F-01-1064	1140	116000	116
40	6.98	B.P.F-01-1065	1260	129000	129
42.5	7.88	B.P.F-01-1066	1430	145000	145

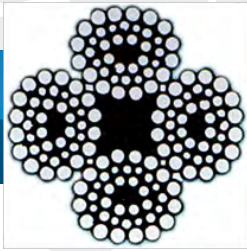
طناب فولادی ۴×۳۰



Mono-rope A

Construction: 4x F (30)-4x F (a+15+15)

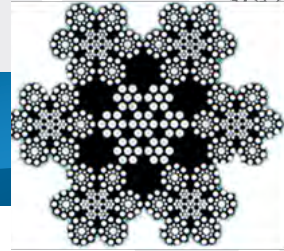
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.221	B.P.F-01-1067	36.0	3670	3.67
9	0.279	B.P.F-01-1068	45.5	4640	4.64
10	0.345	B.P.F-01-1069	56.2	5730	5.73
11.2	0.432	B.P.F-01-1070	70.5	7190	7.19
12	0.496	B.P.F-01-1071	81.0	8260	8.26
12.5	0.539	B.P.F-01-1072	87.9	8960	8.96
14	0.676	B.P.F-01-1073	110	11200	11.20
16	0.882	B.P.F-01-1074	144	14700	14.70
18	1.12	B.P.F-01-1075	182	18600	18.60
20	1.38	B.P.F-01-1076	225	22900	22.90
22	1.67	B.P.F-01-1077	272	27800	27.80
22.4	1.73	B.P.F-01-1078	282	28800	28.80
24	1.99	B.P.F-01-1079	324	33000	33.00
25	2.15	B.P.F-01-1080	351	35800	35.80
26	2.33	B.P.F-01-1081	380	38800	38.80
28	2.70	B.P.F-01-1082	441	45000	45.00
30	3.10	B.P.F-01-1083	506	51600	51.60
31.5	3.42	B.P.F-01-1084	558	56900	56.90
32	3.53	B.P.F-01-1085	576	58700	58.70
33.5	3.87	B.P.F-01-1086	631	64300	64.30
34	3.98	B.P.F-01-1087	650	66300	66.30
35.5	4.34	B.P.F-01-1088	709	72300	72.30
36	4.47	B.P.F-01-1089	729	74300	74.30
37.5	4.85	B.P.F-01-1090	791	80600	80.60
38	4.98	B.P.F-01-1091	812	82800	82.80
40	5.52	B.P.F-01-1092	900	91700	91.70
42.5	6.23	B.P.F-01-1093	1020	104000	104
44	6.67	B.P.F-01-1094	1090	111000	111
45	6.98	B.P.F-01-1095	1140	116000	116



طناب فولادی ۴×۴۰

Mono-rope SP
Construction: 4xF(40)

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
8	0.258	B.P.F-01-1096	43.0	4380	4.38
9	0.327	B.P.F-01-1097	54.4	5540	5.54
10	0.403	B.P.F-01-1098	67.1	6840	6.84
11.2	0.506	B.P.F-01-1099	84.2	8590	8.59
12	0.581	B.P.F-01-1100	96.7	9860	9.86
12.5	0.630	B.P.F-01-1101	105	10700	10.70
14	0.790	B.P.F-01-1102	132	13400	13.40
16	1.03	B.P.F-01-1103	172	17500	17.50
18	1.31	B.P.F-01-1104	218	22200	22.20
20	1.61	B.P.F-01-1105	269	27400	27.40
22	1.95	B.P.F-01-1106	325	33100	33.10
22.4	2.02	B.P.F-01-1107	337	34300	34.30
24	2.32	B.P.F-01-1108	387	39400	39.40
25	2.52	B.P.F-01-1109	420	42800	42.80
26	2.73	B.P.F-01-1110	454	46300	46.30
28	3.16	B.P.F-01-1111	526	53700	53.70
30	3.63	B.P.F-01-1112	604	61600	61.60
31.5	4.00	B.P.F-01-1113	666	67900	67.90
32	4.13	B.P.F-01-1114	687	70100	70.10
33.5	4.52	B.P.F-01-1115	753	76800	76.80
34	4.66	B.P.F-01-1116	776	79100	79.10
35.5	5.08	B.P.F-01-1117	846	86300	86.30
36	5.23	B.P.F-01-1118	870	88700	88.70
37.5	5.67	B.P.F-01-1119	944	96300	96.30
38	5.82	B.P.F-01-1120	969	98800	98.80
40	6.45	B.P.F-01-1121	1070	110000	110
42.5	7.28	B.P.F-01-1122	1210	124000	124



طناب فولادی مخصوص اسلینگ دایره‌ای

Endless Swaged Wire Rope Slings-Cable raid rope
IWRC 6x[IWRC 6xS(19)]

Construction: 7x7+6x[7x7+6xS(1+9+9)]

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
40	5.65	B.P.F-01-1123	817	88300	88.30
42.5	6.38	B.P.F-01-1124	922	94100	94.10
44	6.84	B.P.F-01-1125	989	101000	101
45	7.15	B.P.F-01-1126	1030	105000	105
46	7.47	B.P.F-01-1127	1080	110000	110
47.5	7.97	B.P.F-01-1128	1150	118000	118
48	8.14	B.P.F-01-1129	1180	120000	120
50	8.83	B.P.F-01-1130	1280	130000	130
52	9.55	B.P.F-01-1131	1380	141000	141
53	9.92	B.P.F-01-1132	1430	146000	146
54	10.3	B.P.F-01-1133	1490	152000	152
56	11.1	B.P.F-01-1134	1600	163000	163
58	11.9	B.P.F-01-1135	1720	175000	175
60	12.7	B.P.F-01-1136	1840	187000	187
62	13.6	B.P.F-01-1137	1960	200000	200
63	14.0	B.P.F-01-1138	2030	207000	207
64	14.5	B.P.F-01-1139	2090	213000	213
67	15.9	B.P.F-01-1140	2290	234000	234
71	17.8	B.P.F-01-1141	2570	263000	263
75	19.9	B.P.F-01-1142	2870	293000	293
80	22.6	B.P.F-01-1143	3270	333000	333
85	25.5	B.P.F-01-1144	3690	376000	376
90	28.6	B.P.F-01-1145	4140	422000	422
95	31.9	B.P.F-01-1146	4610	470000	470
100	35.33	B.P.F-01-1147	5110	521000	521

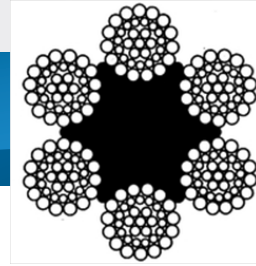


طناب فولادی مخصوص اسلینگ دایره‌ای

6x26 warrington-seale+Fc wire rope
Construction:6x29(1+5+5,5+10)+1Fc

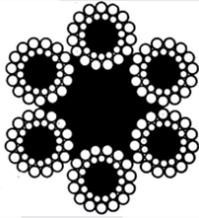
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
100	35.0	B.P.F-01-1148	4970	507000	507
106	39.4	B.P.F-01-1149	5580	569000	569
112	43.9	B.P.F-01-1150	6230	636000	636
118	48.8	B.P.F-01-1151	6920	706000	706
120	50.4	B.P.F-01-1152	7160	730000	730
125	54.7	B.P.F-01-1153	7760	792000	792
130	59.2	B.P.F-01-1154	8400	856000	856
132	61.0	B.P.F-01-1155	8660	883000	883
140	68.7	B.P.F-01-1156	9740	993000	993
150	78.8	B.P.F-01-1157	11200	1140000	1140
160	89.7	B.P.F-01-1158	12700	1300000	1300
170	101	B.P.F-01-1159	14400	1460000	1460
180	113	B.P.F-01-1160	16100	1640000	1640
190	126	B.P.F-01-1161	17900	1830000	1830
200	140	B.P.F-01-1162	19900	2030000	2030

طناب فولادی ۶×۳۷ با مغزی کنفی



6X37+FC wire rope
Construction :6x37 (1+6+15+15)+FC
GOST 3079-80

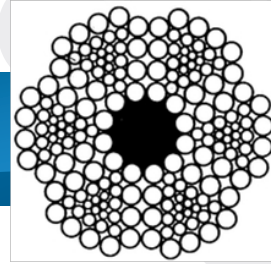
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
11.5	468	B.P.F-01-1163	68.750	7000	7.00
13.5	662	B.P.F-01-1164	97.100	9890	9.89
15.5	851	B.P.F-01-1165	124	12640	12.64
17.0	1065	B.P.F-01-1166	155	15800	15.80
19.5	1350	B.P.F-01-1167	197	20100	20.10
21.5	1670	B.P.F-01-1168	245	24970	24.97
23.0	1930	B.P.F-01-1169	283	28850	28.85
25.0	2245	B.P.F-01-1170	329	33530	33.53
27.0	2650	B.P.F-01-1171	389	39650	39.65
29.0	3015	B.P.F-01-1172	442	45050	45.05
30.5	3405	B.P.F-01-1173	499	50860	50.86
33.0	3905	B.P.F-01-1174	572	58300	58.30
35.0	4435	B.P.F-01-1175	650	66250	66.25
39.0	5395	B.P.F-01-1176	791	80650	80.65
43.0	6675	B.P.F-01-1177	980	99890	99.89
47.0	7845	B.P.F-01-1178	1145	116720	116.72
50.0	9110	B.P.F-01-1179	1330	135580	135.85
52.0	9910	B.P.F-01-1180	1455	148320	148.32
54.0	10600	B.P.F-01-1181	1550	158000	158.00
56.0	11450	B.P.F-01-1182	1675	170750	170.75
58.0	12050	B.P.F-01-1183	1765	179920	179.92
62.0	13950	B.P.F-01-1184	2000	203870	203.87
66.5	16450	B.P.F-01-1185	2360	240570	240.57
71.0	19200	B.P.F-01-1186	2750	280320	280.32
75.0	21150	B.P.F-01-1187	3030	308870	308.87



طناب فولادی ۶×۳۰ با مغزی هفت لا کنفی

Mono-rope SP
Construction:4xF(40)

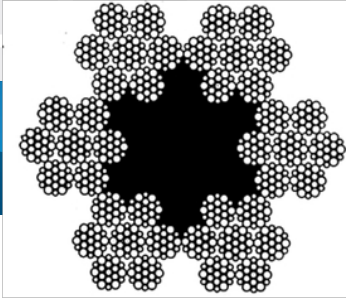
Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
11.5	405	B.P.F-01-1188	58.15	5930	5.93
13.5	534	B.P.F-01-1189	76.50	7790	7.79
15.0	721	B.P.F-01-1190	102.50	10450	10.45
17.0	889	B.P.F-01-1191	126.50	12890	12.89
19.0	1075	B.P.F-01-1192	153.50	15650	15.65
21.0	1335	B.P.F-01-1193	191	19470	19.47
23.0	1625	B.P.F-01-1194	232	23650	23.65
25.0	1870	B.P.F-01-1195	268	27320	27.32
26.5	2135	B.P.F-01-1196	304	30990	30.99
28.5	2495	B.P.F-01-1197	358	36500	36.50
30.5	2800	B.P.F-01-1198	401	40880	40.88
32.5	3125	B.P.F-01-1199	456	46490	46.49
34.5	3555	B.P.F-01-1200	509	51890	51.89
38.0	4305	B.P.F-01-1201	616	62800	62.80
42.0	5345	B.P.F-01-1202	765	77980	77.98
46.0	6240	B.P.F-01-1203	895	91240	91.24
48.0	6715	B.P.F-01-1204	980	99890	99.89
50.0	7490	B.P.F-01-1205	1065	108560	108.56
53.5	8550	B.P.F-01-1206	1220	124360	124.36
57.0	9985	B.P.F-01-1207	1430	145760	145.76
61.0	11200	B.P.F-01-1208	1600	163090	163.09
65.0	12450	B.P.F-01-1209	1785	181950	181.95



طناب فولادی ۶×۳۰ با مغزی کنفی

Triangular Strand Rope
Construction : 6x30(6+12+12)+ FC
GOST 3085-88

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
Type1					
21.5	2105	B.P.F-01-1210	395	40260	40.26
23.0	2385	B.P.F-01-1211	448	45660	45.66
25.0	2745	B.P.F-01-1212	515	52490	52.49
27.5	3340	B.P.F-01-1213	626	63810	63.81
30.0	3990	B.P.F-01-1214	749	76350	76.35
33.0	4700	B.P.F-01-1215	882	89900	89.90
35.5	5470	B.P.F-01-1216	1025	104480	104.48
38.5	6565	B.P.F-01-1217	1230	125380	125.38
40.5	7465	B.P.F-01-1218	1400	142710	142.71
43.5	8425	B.P.F-01-1219	1580	161060	161.06
Type2					
21.5	2105	B.P.F-01-1220	345	35160	35.16
23.0	2385	B.P.F-01-1221	388	39550	39.55
25.0	2745	B.P.F-01-1222	443	45150	45.15
27.5	3340	B.P.F-01-1223	542	55240	55.24
30.0	3999	B.P.F-01-1224	651	66360	66.36
33.0	4700	B.P.F-01-1225	770	78490	78.49
35.5	5470	B.P.F-01-1226	898	91530	91.53
38.5	6565	B.P.F-01-1227	1070	109070	109.07
40.5	7465	B.P.F-01-1228	1220	124360	124.36
43.5	8425	B.P.F-01-1229	1380	140670	140.67

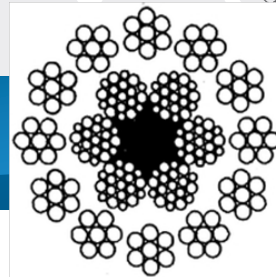


طناب فولادی ۱۹×۷×۶ با مغزی کنفی

Triple-lay Type Rope
Construction : 6x7x19 (1+6+6/6)+FC
GOST 3089-80

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
11.5	425	B.P.F-01-1230	59.00	6010	6.01
12.5	495	B.P.F-01-1231	68.70	7000	7.00
13.5	570	B.P.F-01-1232	79.20	8080	8.08
14.5	652	B.P.F-01-1233	90.35	9200	9.20
16.5	805	B.P.F-01-1234	111	11320	11.32
17.0	900	B.P.F-01-1235	124	12640	12.64
19.0	1090	B.P.F-01-1236	154	15690	15.69
25.0	1975	B.P.F-01-1237	267	27210	27.21
28.0	2355	B.P.F-01-1238	318	32410	32.41
30.0	2770	B.P.F-01-1239	378	38530	38.53
34.0	3565	B.P.F-01-1240	482	39150	49.15
39.0	4610	B.P.F-01-1241	623	63500	63.50
43.0	5625	B.P.F-01-1242	761	77570	77.57
51.0	7905	B.P.F-01-1243	1060	108000	108
59.5	10850	B.P.F-01-1244	1460	149000	149
64.5	12600	B.P.F-01-1245	1700	173000	173
68.5	14250	B.P.F-01-1246	1920	196000	196
73.0	16250	B.P.F-01-1247	2200	225000	225
78.0	18400	B.P.F-01-1248	2480	253000	253
82.0	20650	B.P.F-01-1249	2790	285000	285

طناب فولادی ۱۲×۷
با مغزی ۶×۱۹ کنفی

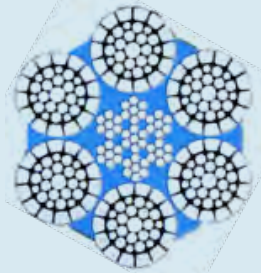


Multistrand Rope

Construction : 12x7(1+6) + 6x19(1+6+6/6) + FC

GOST 3090-73

Diameter of Rope قطر	Weight وزن	Code کد	Minimum breaking load حداقل نیروی گسیختگی		
			1770 N/mm ² (180 kgf/mm ²)		
mm	Kg/km	—	KN	Kgf	Ton
20.0	1493	B.P.F-01-1250	238	24260	24.26
22.0	1845	B.P.F-01-1251	280	28540	28.54
25.0	2351	B.P.F-01-1252	364	37100	37.10
27.0	2736	B.P.F-01-1253	427	43520	43.52
30.0	3507	B.P.F-01-1254	522	53210	53.21
32.0	4005	B.P.F-01-1255	619	63090	63.09
34.0	4434	B.P.F-01-1256	692	70540	70.54
36.0	5053	B.P.F-01-1257	771	78590	78.59
38.0	5598	B.P.F-01-1258	854	87050	87.05
40.0	6260	B.P.F-01-1259	988	100710	100.71
50.0	9926	B.P.F-01-1260	1470	149850	149.85



HYROPE KISWIRE
Hyfil 6

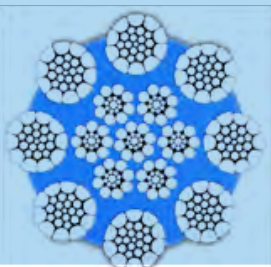
Regular lay-Lang's Lay-Compacted-Plastic Layer

Dia:12mm~45mm

Tensile:1960N/mm²,2160N/mm²

Hyfil 6 has a plastic layer between the core and the compacted outer strands.
Hyfil 6 has a high breaking load and good structural stability.
Hyfil 6 is fully lubricated and made out of galvanized/ungalvanized wires.
Hyfil 6 is suitable for multi layer spooling.
Hyfil 6 has a good resistance against drum crushing.
Hyfil 6 must not be used with a swivel.

Non rotation resistant hoist rope with compacted outer strands for container handling cranes, steel mill cranes, mobile harbour cranes, overhead travelling cranes, boom hoist applications.



HYROPE KISWIRE
Hyfil 8

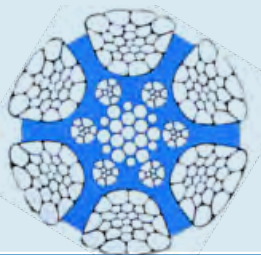
Regular lay-Lang's Lay-Compacted-Plastic Layer

Dia:12mm~54mm

Tensile:1960N/mm²,2160N/mm²

Hyfil 8 has a plastic layer between the core and the compacted outer strands.
Hyfil 8 has a high breaking load and good structural stability.
Hyfil 8 is fully lubricated and made out of galvanized/ungalvanized wires.
Hyfil 8 is suitable for multi layer spooling.
Hyfil 8 has a good resistance against drum crushing.
Hyfil 8 must not be used with a swivel.

Non rotation resistant hoist rope with compacted outer strands for container handling cranes, steel mill cranes, mobile harbour cranes, overhead travelling cranes, boom hoist applications.



HYROPE KISWIRE
Hyfil T6

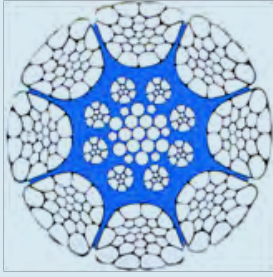
Regular lay- Compacted-Plastic Layer-Rotary swaged

Dia:12mm~32mm

Tensile:1960N/mm²

Hyfil T6 is a flexible steel-plastic combination rope with double parallel layered strands.
All strands are compacted and rotary swaged.
Hyfil T6 has an extremely high breaking strength and is very resistant against abrasion.
Hyfil T6 is suitable for multi layer spooling systems with guided loads.
Hyfil T6 is fully lubricated and made out of galvanized/ungalvanized wires.
Hyfil T6 must not be used with a swivel.

6-strand non rotation resistant rope with compacted and rotary swaged strands. Suitable as hoist rope for cranes with guided loads working in multiple layer on the drum, such as boom hoist ropes for mobile cranes, crawler cranes, grapple applications etc. Can also be used as hoist rope for container handling cranes, overhead travelling cranes.

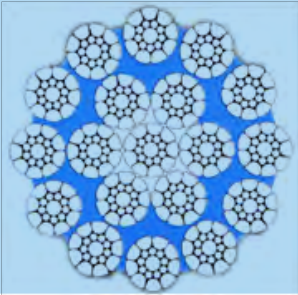


HYROPE KISWIRE
Hyfil T8

Regular lay- Compacted-Plastic Layer-Rotary swaged
Dia:12mm~32mm
Tensile:1960N/mm2

Hyfil T8 is a flexible steel-plastic combination rope with double parallel layed strands.
All strands are compacted and rotary swaged.
Hyfil T8 has an extremely high breaking strength and is very resistant against abrasion.
Hyfil T8 is most suitable for multy layer spooling systems with guided loads.
Hyfil T8 is fully lubricated and made out of galvanized/ungalvanized wires.
Hyfil T8 must not be used with a swivel.

8-strand non rotation resistant rope with compacted and rotary swaged strands. Suitable as hoist rope for container cranes, steel mill cranes, boom hoist applications, etc. very high breaking strength and most suitable for multy layer spooling devices.

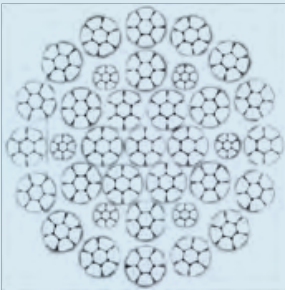


HYROPE KISWIRE
Hyfil 12

Regular lay-Lang's Lay-Compacted-Plastic Layer
Dia:8mm~40mm
Tensile:1960N/mm2, 2160N/mm2

Hyfil 12 is suitable rope for high lifting height application with semi rotation resistance.
Hyfil 12 has a plastic layer between the inner strands and outer strands and all strands are compacted.
The steel-plastic combination increases structural stability.
The rope is fully lubricated and made out of galvanized/ungalvanized wires.

Rotation-resistant rope, suitable as hoist rope for mobil-eranes, towercranes, crawler cranes pile-driving equipments.

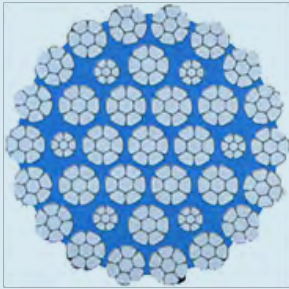


HYROPE KISWIRE
Hyfil 16

Lang's Lay-Compacted
Dia:10mm~40mm
Tensile:1960N/mm2, 2160N/mm2

Hyfil 16 is the most suitable rope for high lifting height application
Hyfil 16 is a rotation resistant rope, and made with compacted both parts of outer strands and inner strands.
Hyfil 16 has an extremely high breaking strength with a very strong resistance against drum crushing.
The rope is fully lubricated and made of galvanized/ungalvanized wires.

Rotation-resistant rope, suitable as hoist rope for mobile cranes, towercranes, crawler cranes pile-driving equipments.

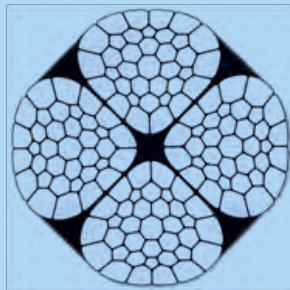


HYROPE KISWIRE
Hyfil 18

Lang's Lay-Compacted-Plastic Layer
Dia:15.9mm~40mm
Tensile:1960N/mm²,2160N/mm²

Hyfil 18 is most suitable rope for multi spooling systems with rotation resistant ropes are required especially in the marine environment. Hyfil 18 has a plastic layer between the inner strands and outer strands and all strands are compacted. The steel-plastic combination increases structural stability. Hyfil 18 has an extremely high breaking strength with good

Rotation resistant rope, suitable as hoist rope especially for cranes working in marine environment such as deck cranes, offshore cranes.

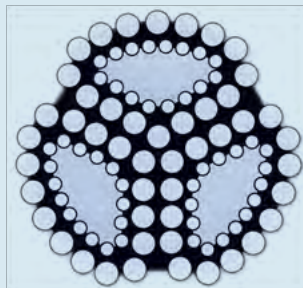


QUADROLIFT
regular lay

Dia:6mm~40mm
Tensile:1770N/mm²,1960 N/mm²,2160 N/mm²

Is a rotation resistant 4-strand rope made out of compacted strands. Is fully lubricated. Is very flexible. Has a high breaking load. Is very stable under forcible twist.

Rotation resistant hoist rope for electrical hoists with twin hoist systems and greater lifting height, combined hoist and erection rope for self erecting cranes, where rotation resistant ropes are required.

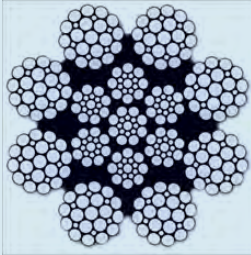


RAMMBOLIFT
regular lay

Dia:4mm~40mm
Tensile:1960 N/mm²

Is a rotation resistant 3-strand rope with a fibre core in every strand. Is fully lubricated. Is very resistant against dynamic loads. Has a very round surface.

Hoist rope for pile drivers, pulling line for electrical power cables.



HYROPE KISWIRE

Hyfil 18

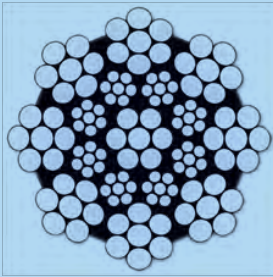
Lang's Lay-Compacted-Plastic Layer

Dia:15.9mm~40mm

Tensile:1960N/mm²,2160N/mm²

Is an 8-strand rope made out of conventional strands.
Is fully lubricated.
Has optimal strand-to-strand contact conditions inside.
Has an excellent service life.

Hoist rope for overhead cranes, preferably ladle cranes with great rope lengths. Note: please send us a drawing of the reeving systems.



UNILIFT

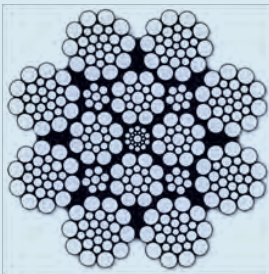
regular lay

Dia:6mm16mm

Tensile: 1770N/mm², 1960 N/mm²

Is an 8-strand rope in parallel lay construction made out of conventional strands.
Is fully lubricated.
Is very flexible.
Has a high breaking load.

Traction and haulback rope for scrapers and construction hoists, tag line and guide line for clam shells, trolley rope for horizontal booms (drum and friction sheave)



RAMMBOLIFT

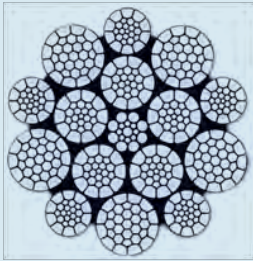
regular lay

Dia:4.0mm28mm

Tensile: 1770N/mm², 1960 N/mm², 2160 N/mm²

Is an 8-strand rope in parallel lay construction made out of conventional strands.
Is fully lubricated.
Is very flexible.
Has a high breaking load.

Hoist rope for electrical hoists and lifting devices with multiple part reeving, twin hoist systems with left and right hand ropes, where rotation resistant ropes are not required.



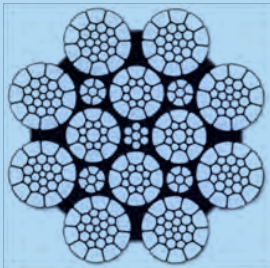
SUPERLIFT

regular lay or langs lay
Dia:28mm80mm

Tensile:1770N/mm²,1960 N/mm²,2160 N/mm²

Is an 10-strand rope in parallel lay construction made out of compacted strands.
Is fully lubricated.
Is very flexible.
Has an extremely high breaking load.

Pendant rope for tower cranes, mobile cranes, grabs, suspended structures etc, when highest breaking loads are required.



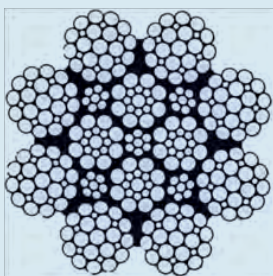
QUADROLIFT

regular lay
Dia:6mm40mm

Tensile:1770N/mm²,1960 N/mm²,2160 N/mm²

Is an 8-strand rope in parallel lay construction made out of compacted strands.
Is fully lubricated.
Is very flexible.
Has an extremely high breaking load.

Pendant rope for tower cranes, mobile cranes, grabs, suspended structures etc, when high breaking loads are required.



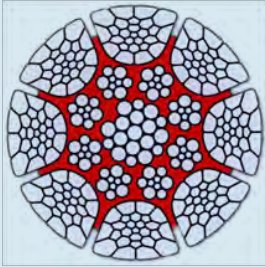
STRATOLIFT

regular lay or langs lay
Dia:10mm72mm

Tensile: Tensile:1770N/mm²,1960 N/mm²

Is an 8-strand hammered rope in parallel lay construction made out of compacted outer strand.
Is fully lubricated.
Has a plastic infill.
Has an extremely high breaking strength.
Is especially suited for multi layer spooling.

Boom hoist rope for mobile cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes, for electrical hoists and lifting devices whereas a rotation resistant rope is not needed. Highest breaking loads. Especially suitable for multiple layer spooling.

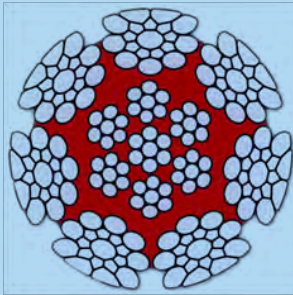


PARAFIT

regular lay
Dia: 8mm-50mm
Tensile: 1960 N/mm², 2160 N/mm²

Is an 8-strand hammered rope in parallel lay construction made out of compacted outer strand.
Is fully lubricated.
Has a plastic infill.
Has an extremely high breaking strength.
Is especially suited for multi layer spooling.

Boom hoist rope for mobile cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes, for electrical hoists and lifting devices whereas a rotation resistant rope is not needed. Highest breaking loads. Especially suitable for multiple layer spooling.

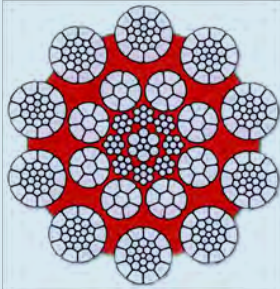


ULTRAFIT

regular lay
Dia: 8mm-50mm
Tensile: 1960 N/mm², 2160 N/mm²

Is a 7-strand hammered rope.
Is fully lubricated.
Has a plastic layer between the steel core and the outer strands.
Has a very high breaking strength.
Is especially suited for multi layer spooling.

Boom hoist rope for mobile cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes etc. in multiple part reeving for smaller lifting heights, twin hoist systems with left and right hand ropes for greater lifting heights, where rotation resistant ropes are not required. Highest abrasion resistance. Especially suitable for multiple layer spooling.

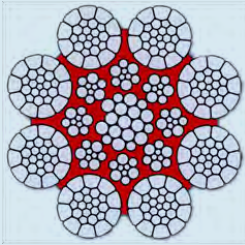


SUPERPLAST8

regular lay or lang's lay
Dia: 10mm-76mm
Tensile: 1770 N/mm², 1960 N/mm², 2160 N/mm²

Is a 10-strand rope made out of compacted outer strands.
Is fully lubricated.
Has a plastic layer between the steel core and the outer strands, giving the rope a high structural stability, avoiding internal rope destruction and protecting the core against corrosive environment.
Has a very high breaking load and a good resistance against drum crushing.

Boom hoist rope for mobile cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes etc. and for various offshore applications. In multiple part reeving for smaller lifting heights, twin hoist systems with left and right hand ropes for greater lifting heights, where rotation resistant ropes are not required.



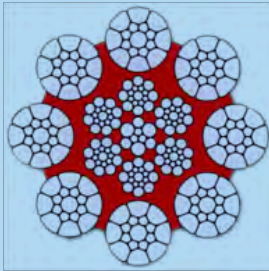
PARAPLAST

regular lay or langs lay
Dia:6mm30mm

Tensile: 1770N/mm²,1960 N/mm²,2160 N/mm²

Is an 8-strand rope in parallel lay construction made out of compacted outer strands.
Is fully lubricated.
Has a plastic layer between the steel core and the outer strands.
Has a very high breaking load.

Hoist rope for electrical hoists and lifting devices with multiple part reeving ,whereas a rotation resistant rope is not needed due to great lifting heights,low number of falls or not guided loads. High breaking load.



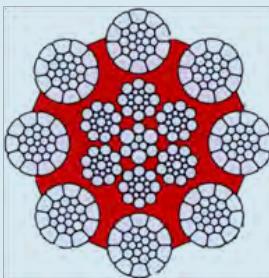
DUOPLAST

regular lay or langs lay
Dia:8mm50mm

Tensile: 1770N/mm²,1960 N/mm²

Is an 8-strand rope made out of compacted outer strands.
Is fully lubricated.
Has a plastic layer between the steel core and the outer strands,giving the rope a high structural stability,avoiding internal rope destruction and protecting the core against corrosive environment.
Has a high breaking load and is very resistant against abrasion.

Boom hoist rope for mobile cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes etc. In multiple part reeving for smaller lifting heights,twin hoist system with left and right hand ropes for greater lifting heights, when a high abrasion resistance is required, where rotation resistant ropes are not required.



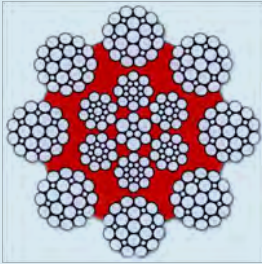
TURBOPLAST

regular lay or langs lay
Dia:8mm72mm

Tensile: 1770N/mm²,1960 N/mm²

Is an 8-strand rope made out of compacted outer strands.
Is fully lubricated.
Has a plastic layer between the steel core and the outer strands,giving the rope a high structural stability,avoiding internal rope destruction and protecting the core against corrosive environment.
Has a very high breaking load and a good resistance against drum crushing.

Boom hoist rope for mobile cranes, deck cranes and grabs, hoist rope for container cranes, floating cranes, portal cranes, steel mill cranes etc. In multiple part reeving for smaller lifting heights, twin hoist system with left and right hand ropes for greater lifting heights, risertensioner, where rotation resistant ropes are not required.



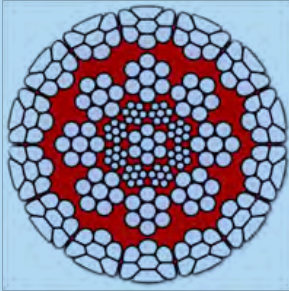
STRATOPLAST

regular lay or langs lay
Dia: 8mm-72mm

Tensile: 1770N/mm², 1960 N/mm²

Is an 8-strand rope made out of conventional strands. Is fully lubricated. Has a plastic layer between the steel core and the outer strands, giving the rope a high structural stability, avoiding internal rope destruction and protecting the core against corrosive environment.

Hoist rope for container cranes, floating cranes, harbour cranes, portal cranes, steel mill cranes etc. in multiple part reeving for smaller lifting heights, twin hoist systems with left and right hand lay ropes for greater lifting heights. Holding and closing rope for grabs, where rotation resistant rope are not required.



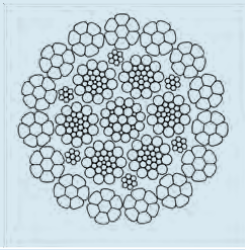
STARFIT

langs lay
Dia: 12mm-50mm

Tensile: 1960 N/mm², 2160 N/mm²

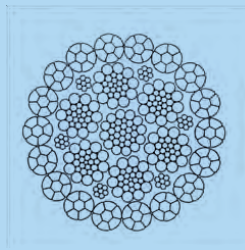
Is an 14-strand rotation resistant, hammered rope. Is fully lubricated. Has a plastic layer between the steel core and the outer strands. Has a very high breaking strength. Is especially suited for multi layer spooling.

Hoist rope for deck cranes and offshore cranes and other applications where rotation resistant ropes are required. Especially suitable for multiple layer spooling.



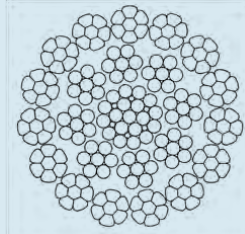
Compacted outer Strands-high breaking force

DIEPA 1315 CZP-Lang lay(With plastic insert)
 DIEPA D 1315 CZ-Lang lay
 DIEPA D 1315 Z-Ordinary lay
 DIEPA D 1315 ZP-Ordinary lay(With plastic insert)
 DIA : 4mm~70mm
 Tensile : 1770N/mm2,1960 N/mm2,2160 N/mm2
 Bright, Galvanized
 For:Single-Layer coiling:(In the drum),tower crane



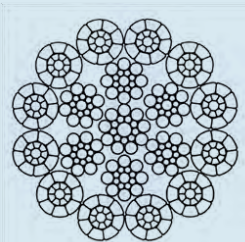
Compacted outer Strands-high breaking force

DIEPA 1318 CZP-Lang lay(With plastic insert)
 DIEPA D 1318 CZ-Lang lay
 DIEPA D 1318 Z-Ordinary lay
 DIEPA D 1318 ZP-Ordinary lay(With plastic insert)
 DIA : 6mm~70mm
 Tensile : 1770N/mm2,1960 N/mm2,2160 N/mm2
 Bright, Galvanized
 For:Specific application



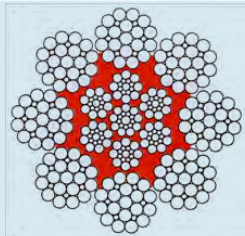
Compacted outer Strands-very high breaking force

DIEPA D 915 CZ-Lang lay
 DIA : 6mm~40mm
 Tensile : 1770N/mm2,1960 N/mm2
 Bright, Galvanized
 For:Tower cranes



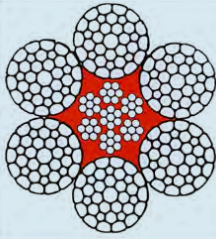
Compacted outer Strands-very high breaking force

DIEPA D 1200 Z-Ordinary lay
 DIA : 6mm~40mm
 Tensile : 1770N/mm2,1960 N/mm2,2160 N/mm2
 Bright, Galvanized
 For:Specific application



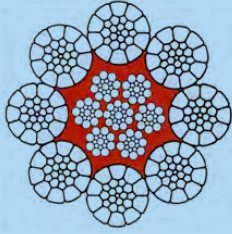
Non-compacted outer strands

DIEPA P 825-Ordinary lay(with plastic insert)
 DIEPA S 321- Ordinary lay(In hot environment)
 DIA : 4mm~75mm
 Tensile : 1770N/mm2,1960 N/mm2
 Bright, Galvanized
 For:Single-Layer coiling(On the drum:
 Indoor cranes,overhead travel cranes,
 floating dredges,mill's work cranes,etc)



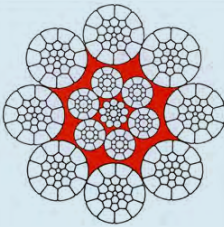
DIEPA PZ 299-Ordinary lay
 DIEPA Z 299-Ordinary lay
 DIA : 4mm~60mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For: Specific application

Compacted outer strands-high breaking force



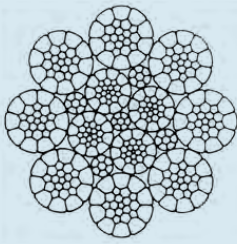
DIEPA PZ 371-Ordinary lay
 DIA : 4mm~75mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For: Multi-layer coiling(Boom hoist rope)

Compacted outer strands-high breaking force



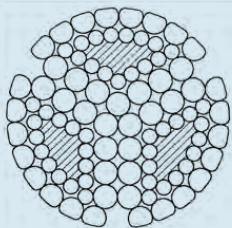
DIEPA PZ 400-Ordinary lay
 DIA : 10mm~60mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For: Specific application

Compacted outer strands-high breaking force



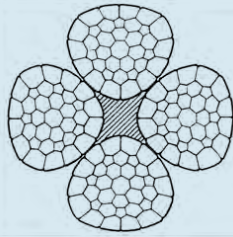
DIEPA SKZ 8-Ordinary lay
 DIEPA SKZ 8 P-Ordinary lay
 DIA: 4mm~75mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For: Multi-layer coiling(Boom hoist rope),
 Single-Layer coiling(On the drum:
 Indoor cranes, overhead travel cranes,
 floating dredges, mill's work cranes, etc)

Compacted outer strands-high breaking force



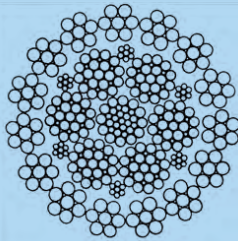
DIEPA SUPER 3-Ordinary lay
 DIA : 4mm~34mm
 Tensile : 1960 N/mm²
 Bright, Galvanized
 For: Specific application

Compacted outer strands-high breaking force



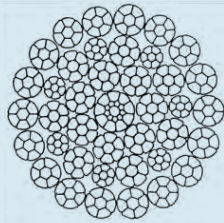
Compacted outer strands-high breaking force

DIEPA SUPER 4-Ordinary lay
 DIA : 4mm~34mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright,Galvanized
 For:Specific application



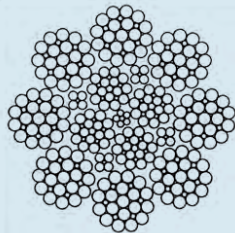
Non-compacted outer strands

DIEPA D 1315 C-Langs lay
 DIEPA D 1315-Ordinary lay
 DIA : 4mm~70mm
 Tensile : 1770N/mm²,1960 N/mm²
 Bright,Galvanized
 For:Single-Layer coiling(On the drum),Tower cranes



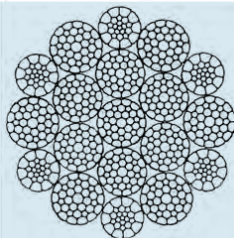
Compacted outer strands-high breaking force

DIEPA D 1918 Z-Ordinary lay
 DIA : 12mm~60mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright,Galvanized
 For:Specific application



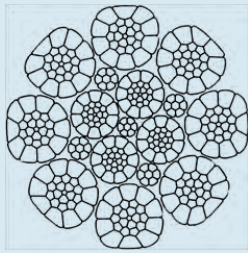
Non-compacted outer strands

DIEPA S 417-Ordinary lay
 DIA : 4mm~75mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright,Galvanized
 For:Specific application



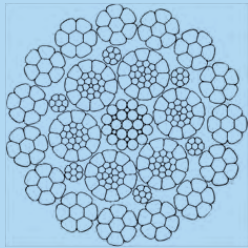
Compacted outer strands-high breaking force

DIEPA SKZ 12-Ordinary lay
 DIA : 26mm~70mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright,Galvanized
 For:Specific application



Compacted outer strands-high breaking force

DIEAP H50-Ordinary lay
 DIAPA H53-Ordinary lay
 Dia:12mm~52mm
 Tensile : 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For:Multi-layercoiling(Boom hoist rope)

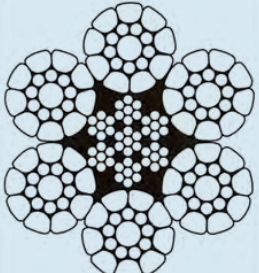
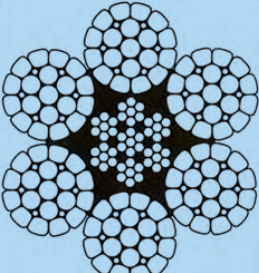
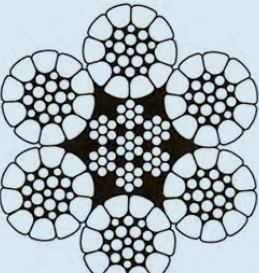
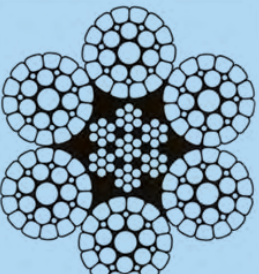


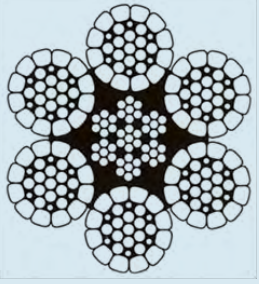
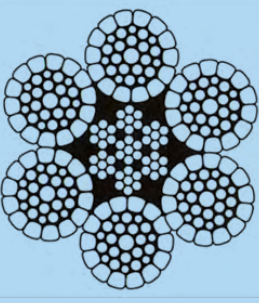
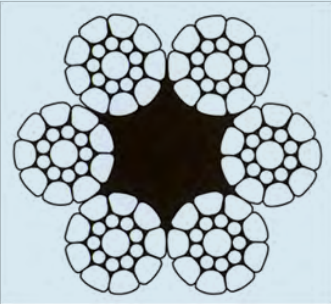
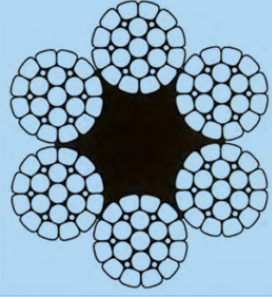
Compacted outer strands-high breaking force

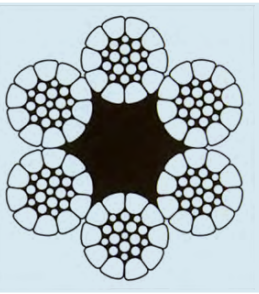
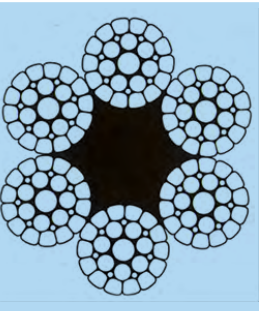
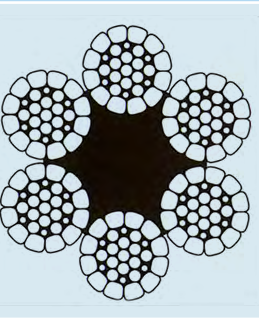
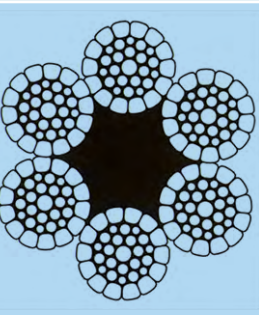
DIEPA B60-Ordinary lay
 DIEPA B63-Ordinary lay
 DIEPA B65-Lang lay
 DIEPA B68-Lang lay
 Dia:12mm~70mm
 Tensile: 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 With plastic insert
 For:Single-Layer coiling(On the drum),
 Tower cranes

DIEPA K114-Ordinary lay
 Dia:6mm~20mm
 Tensile: 1770N/mm²,1960 N/mm²
 Bright, Galvanized
 For:Specificapllcation

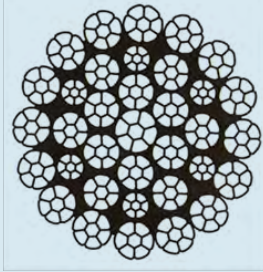
DIEPA ZV831-Ordinary lay
 Dia:16mm~75mm
 Tensile: 1770N/mm²,1960 N/mm²,2160 N/mm²
 Bright, Galvanized
 For:Specificapllcation

			<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand IWRC(Steel Core)</p> <p>Construction:6xP.S{19:1+9+9}+IWRC</p> <p>Dia:10mm~40mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
			<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand IWRC(Steel Core)</p> <p>Construction:6xP.Fi{25:1+6+(6)+12}+IWRC</p> <p>Dia:10mm~40mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
			<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand IWRC(Steel Core)</p> <p>Construction:6xP.WS{26:1+5+(5+5)+10}+IWRC</p> <p>Dia:10mm~40mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
			<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand IWRC(Steel Core)</p> <p>Construction:6xP.Fi{29:1+7+(7)+14}+IWRC</p> <p>Dia:10mm~40mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>

	<p style="text-align: center;">COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope. 6Strand IWRC(Steel Core) Construction:6xP.WS{31:1+6+(6+6)+12}+IWRC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p style="text-align: center;">COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope. 6Strand IWRC(Steel Core) Construction:6xP.WS{36:1+7+(7+7)+14}+IWRC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p style="text-align: center;">COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope. 6Strand Fiber Core Construction:6xP.S{19:1+9+9}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p style="text-align: center;">COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope. 6Strand Fiber Core Construction:6xP.Fi{25:1+6+(6)+12}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>

	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand Fiber Core Construction:6xP.WS{26:1+5+(5+5)+10}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand Fiber Core Construction: 6xP.Fi{29:1+7+(7)+14}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand Fiber Core Construction:6xP.WS{31:1+6+(6+6)+12}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>6Strand Fiber Core Construction:6xP.WS{36:1+7+(7+7)+14}+FC Dia:10mm~40mm Tensile:1960N/mm²,2160N/mm² For:(Fishing,Sky-Line,Haul-back line & etc.)</p>

	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>8Strand IWRC(Steel Core)</p> <p>Construction: 8xP.Fi{25:1+6+(6)+12}+IWRC</p> <p>Dia:10mm~38mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>8Strand IWRC(Steel Core)</p> <p>Construction: 8xP.Fi{29:1+7+(7)+14}+IWRC</p> <p>Dia:10mm~38mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>8Strand IWRC(Steel Core)</p> <p>Construction:8xP.WS{26:1+5+(5+5)+10}+IWRC</p> <p>Dia:10mm~38mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>COMPACTED ROPE KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>8Strand IWRC(Steel Core)</p> <p>Construction:8xP.WS{36:1+7+(7+7)+14}+IWRC</p> <p>Dia:10mm~38mm</p> <p>Tensile:1960N/mm²,2160N/mm²</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>



COMPACTED ROPE KISWIRE

The compacted rope has higher breaking load by 13-18% over round rope.

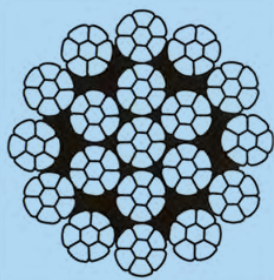
Low Rotation Rope

Construction: 35xP.7(WA){1+6+(6+6)+16}

Dia:10mm~36mm

Tensile: 1960 N/mm²,2160 N/mm²

For:(Fishing,Sky-Line,Haul-back line & etc.)



COMPACTED ROPE KISWIRE

The compacted rope has higher breaking load by 13-18% over round rope.

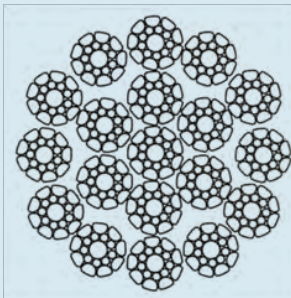
Rotation Resistant Rope

Construction: 19xP.7{1+6+12}

Dia:7mm~28mm

Tensile: 1960 N/mm²,2160 N/mm²

For:(Fishing,Sky-Line,Haul-back line & etc.)



COMPACTED ROPE KISWIRE

The compacted rope has higher breaking load by 13-18% over round rope.

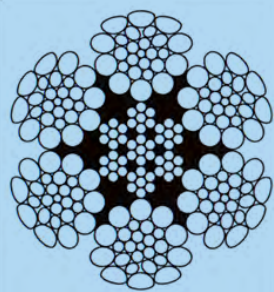
Rotation Resistant Rope

Construction: 19xP.S(19){1+9+9}

Dia:8mm~36mm

Tensile: 1960 N/mm²,2160 N/mm²

For:(Fishing,Sky-Line,Haul-back line & etc.)



Swaged Rope KISWIRE

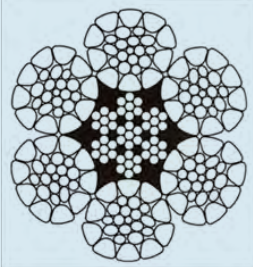
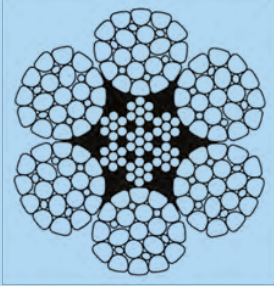
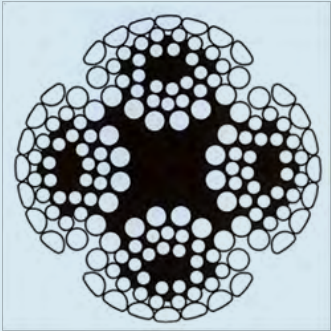
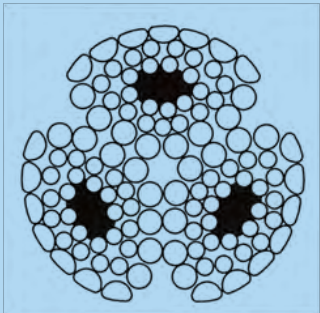
The compacted rope has higher breaking load by 13-18% over round rope.

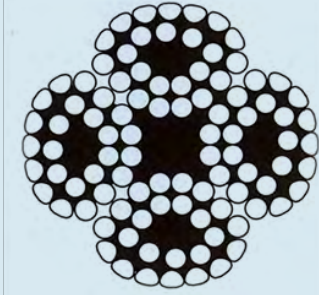
Construction:6xWS(26:1+5+(5+5)+10)+IWRC

Dia:7.9mm~32mm

Tensile: 1770 N/mm²,2160 N/mm²

For:(Fishing,Sky-Line,Haul-back line & etc.)

	<p>Compacted & Swaged Rope KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>Construction: 6xWS{26:1+5+(5+5)+10}+IWRC</p> <p>Dia:12.7mm~22.2mm</p> <p>Tensile:KISPAC(CMP+SWAGED)</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>Compacted & Swaged Rope KISWIRE</p> <p>The compacted rope has higher breaking load by 13-18% over round rope.</p> <p>Construction:6xFi{25:1+6+(6)+12}+IWRC</p> <p>Dia:12.7mm~22.2mm</p> <p>Tensile:KISPAC(CMP+SWAGED)</p> <p>For:(Fishing,Sky-Line,Haul-back line & etc.)</p>
	<p>MONO TRACK ROPE KISWIRE</p> <p>Construction:4x39(SES)</p> <p>Dia:10mm~45mm</p> <p>Tensile:Hgrade,SHgrade</p> <p>Application:Hoisting single-rope crane, Deck crane,shipcrane,Mobilecrane,Jip crane & for other similar applications.</p> <p>Features:(Higher rotation resistant), (Increase Breaking Strength),(Higher flexibility), (Intense Resistance against abrasion)</p>
	<p>MONO TRACK ROPE KISWIRE</p> <p>Construction:3x39(SES)</p> <p>Dia:8mm~28mm</p> <p>Tensile:Hgrade,SHgrade</p> <p>Application:Hoisting single-rope crane, Deck crane,shipcrane,Mobilecrane,Jip crane & for other similar applications.</p> <p>Features:(Higher rotation resistant), (Increase Breaking Strength),(Higher flexibility), (Intense Resistance against abrasion)</p>



MONO TRACK ROPE KISWIRE

Construction:4x24

Dia:8mm~30mm

Tensile:Hgrade,SHgrade

Application:Hoisting single-rope crane,
Deck crane,shipcrane,Mobilecrane,Jip crane &
forelectricity cable lay-down.

Features:(Higher rotation resistant),
(Increase Breaking Strength),(Higher flexibility),
(Intense Resistance against abrasion)

8 & 6 Strand Wire Rope with Compacted Outer Strands.

Model :TU

Product Description:

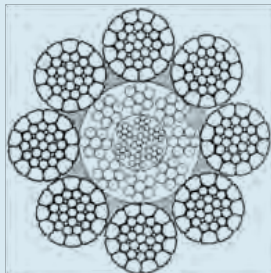
Due to the use of a lower grade wire in the outer layer of strands wire deformation takes place, and the contact area of wire with a block groove increases. It all results in less abrasive wear of the wires as well as the block grooves.

These advantages extend the operational life of the rope and significantly reduce operating costs.

Organic fillers (OF) inside the rope serve as additional lubrication source which enables to protect the core from corrosion and reduce friction between rope core and outer strands.

As outer strands of the rope go through crimping wheels, the strand becomes thicker – metal cross sectional area increases, strand form becomes smoother, and round, therefore the following advantages are achieved:

- increased wear resistance of wires
- decreased blocks groove wearing
- high tensile strength
- higher lateral compression strength



8 Strand Rope with Compacted Outer Strands

Construction :8x37(1+6; 6+12+12) + 8 OF + 8x7(1+6) + 6x7(1+6) + 1x7(1+6)

Dia:60.3mm

The ropes of 1670 N/mm² grade are manufactured from uncoated wire of the following grades: 1570 N/mm² ■ outer layer of external strands; 1770 N/mm² – the rest of the wires.

The ropes are applied for hoisting at P&H 2800 type excavators.

STO 71915393-TU 043-2007

8 Strand Rope

Construction :

- Type 1 - 8x25(1+6; 6+12) + 6x17(1+8+8) + 1x17(1+8+8)

- Type 2 - 8x26(1+5+5/5+10) + 6x17(1+8+8) + 1x17(1+8+8) with compacted outer strands (Type1)Dia:21mm~42mm

Tensile:1770 N/mm2,1860 N/mm2,1960 N/mm2

(Type2)Dia:14mm~42mm

Tensile: 1770 N/mm2,1860 N/mm2,1960 N/mm2

STO 71915393-TU 051-2007

8 Strand Rope

Construction :8x36(1+7+7/7+14) + 6x19 (1+9+9) + 1x19 (1+9+9)

Type1,Type2(Dia): 39mm~76.2mm

Type1,Type2(Tensile): 1670 N/mm2,1770 N/mm2,1860 N/mm2,1960 N/mm2

- Type 1- without fiber filler

- Type 2 - with 8 fiber fillers between outer and inner rope layers

STO 71915393-TU 052-2008

8 Strand Rope with Compacted Outer Strands

Construction :8x36(1+7+7/7+14) + 6x19 (1+9+9) + 1x19 (1+9+9)

Type1,Type2(Dia): 39mm~80mm

Type1,Type2(Tensile): 1670 N/mm2,1770 N/mm2,1860 N/mm2,1960 N/mm2

- Type 1 - with compacted outer strands;

- Type 2 - with compacted outer strands and 8 organic fillers between the external and internal layers of the rope

TU 053-2008

STO 71915393-

8 Strand Wire Rope

Construction :8x61 (1+6;6+12+18+18)+6x36 (1+7+7/7+14)+1x36 (1+7+7/7+14)

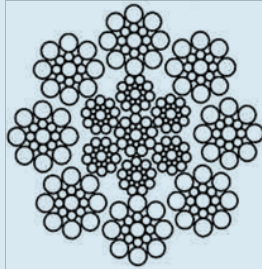
Type1,Type2(Dia): 70mm~90mm

Type1,Type2(Tensile): 1670 N/mm2,1770 N/mm2

- Type 1- without fiber filler

- Type 2 - with 8 fiber fillers between outer and inner rope layers

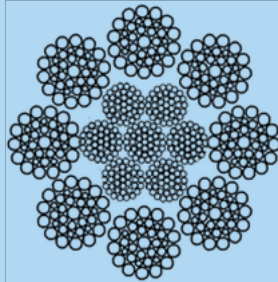
TU 14-4-1291-8z



STO 71915393-TU 072-2009

8 Strand Drilling Rope

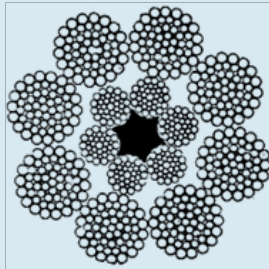
Construction :8x17 (1+8+8) + 6x19 (1+9+9) +
1x19(1+9+9)
Dia:25mm~38mm
Tensile:1570 N/mm²,1670 N/mm²,1770 N/mm²



TU 14-4-163-2004

8 Strand Rope

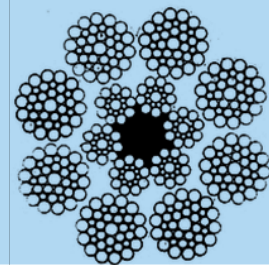
Construction :
 ■ Type 1 - 8x36 (1+7+7/7+14)+6x37
(1+6+12+18)+1x37 (1+6+12+18)
 ■ Type 2 - 8x36 (1+7+7/7+14)+6x36
(1+7+7/7+14)+1x36 (1+7+7/7+14)
 Type1,Type2(Dia): 64mm~70mm
 Type1,Type2(Tensile): 1570 N/mm²,1670 N/
mm²,1770 N/mm²



TU 14-4-721-76

8 Strand Wire Rope

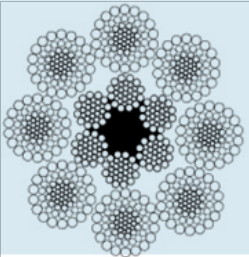
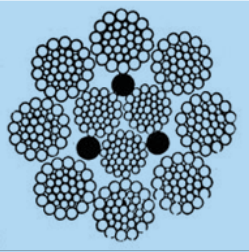
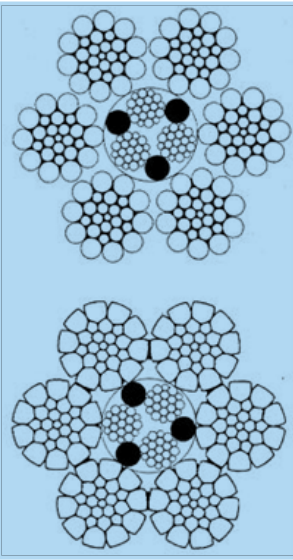
Construction :8x61 (1+6; 6+12+18+18)+6x36
(1+7+7/7+14)+FC
Dia:58mm~90mm
Tensile:1960 N/mm²

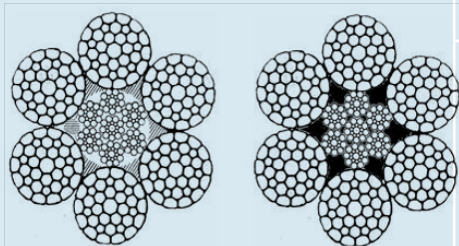


TU 14-4-722-76

8 Strand Wire Rope

Construction :8x36 (1+7+7/7+14)+6x19 (1+9+9)
+ FC
Dia:31.5mm~54mm
Tensile:1960 N/mm²

	<p style="text-align: center;">8 Strand Wire Rope</p> <p>Construction : 8x67 (1+6+6/6+12+18+18)+6x31 (1+6+6/6+12) + FC Dia:65mm~79mm Tensile:1960 N/mm²</p>
<p style="text-align: center;">TU 14-4-1394-86</p>	<p style="text-align: center;">8 Strand Wire Rope</p> <p>Construction : 8x36 (1+7+7/7+14)+ 3x36 (1+7+7/7+14)+3 organic fillers Dia:36.5mm~80mm Tensile:1570 N/mm²,1670 N/mm²,1770 N/mm²,1860 N/mm²,1960 N/mm²</p>
	<p style="text-align: center;">8 Strand Wire Rope</p> <p>Construction : 8x37 (1+12+12+12) + 3x7 (1+6); 3x37 (1+12+12+12) + FC Dia:41.5mm~63mm Tensile: 1670 N/mm²,1770 N/mm²,1860 N/mm²</p>
<p style="text-align: center;">TU 14-4-1502-88</p>	<p style="text-align: center;">Drilling Rope with Combined Core</p>
	<p>Construction :</p> <ul style="list-style-type: none"> ■ Type 1 6x26(1+5+5/5+10)+3x19(1+6+6/6)+3 organic fillers (OF) without compacted strands; ■ Type 2 6x26(1+5+5/5+10)+3x19(1+6+6/6)+3 OF with compacted outer strands. <p>Type1,Type2(Dia): 25mm~38mm Type1,Type2(Tensile):1960 N/mm² Product description : These wire ropes have a combined three-wire core and three organic fillers and offer a set of technological advantages compared to ropes manufactured according to GOST 16853-88: increased wear resistance and reduced impact load on the rope. Basic advantages of ropes with compacted outer strands TU049 (type 2) are: high tensile strength, increased abrasive resistance of strand wires and rope strands, reduced wear of blocks and drums due to the increased area of contact with the rope bearing surface.</p>
<p style="text-align: center;">STO 71915393-TU 049-2007</p>	



Wire Rope with Compacted Outer Strands

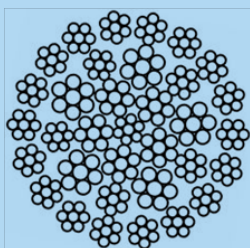
Construction : $6 \times 36(1+7+7/7+14) + 6 \times 19(1+9+9) + 1 \times 19(1+9+9)$

Type1, Type2(Dia): 35.5mm~68mm

The ropes of 1670 N/mm² grade are manufactured from uncoated wire of the following grades: 1570 N/mm² – outer layer of external strands; 1770 N/mm² – the rest of the wires

- Type 1 - with compacted outer strands
- Type 2 - with compacted outer strands and 6 organic fillers between the external and internal layers of the rope

STO 71915393-TU 057-2008



Multistrand Rope

Construction : $18 \times 7(1+6) + 5 \times 7(1+6) / 5 \times 7(1+6) + 5 \times 7(1+6) + 1 \times 7(1+6)$

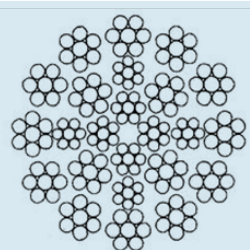
Dia: 18mm~36mm

Tensile: 1770 N/mm², 1960 N/mm², 2160 N/mm²

Opposite lay direction of external and internal strand layers prevents the rope from rotating around its axis.

- uncoated wire, grade 1770 N/mm² - 2160 N/mm²
- galvanized wire, grade 1770 N/mm² - 1960 N/mm²

STO 71915393-TU 061-2008



Multistrand Rope

Construction : $12 \times 7(1+6) + 4 \times 7(1+6) / 4 \times 7(1+6) + 4 \times 7(1+6)$

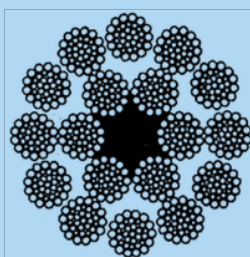
Dia: 14mm~20mm

Tensile: 1770 N/mm², 1960 N/mm², 2160 N/mm²

Opposite lay direction of external and internal strand layers prevents the rope from rotating around its axis.

- uncoated wire, grade 1770 N/mm² - 2160 N/mm²
- galvanized wire, grade 1770 N/mm² - 1960 N/mm²

STO 71915393-TU 064-2008



Multistrand Rope

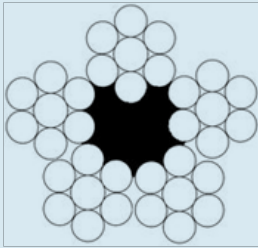
Construction : $12 \times 36(1+7+7/7+14) + 6 \times 36(1+7+7/7+14) + FC$

Dia: 36mm~55mm

Tensile: 1370 N/mm², 1470 N/mm², 1570 N/mm², 1670 N/mm², 1770 N/mm², 1860 N/mm², 1960 N/mm²

Opposite lay direction of external and internal strand layers prevents the rope from rotating around its axis.

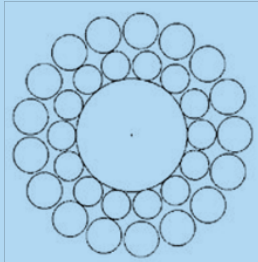
GOST 16827-81



TU 14-4-297-85

Wire Rope for Automobiles

Construction :5x7 (1+6)+1o.c., 1x25
(3+9+13),6x12(3+9)+1x12(3+9)
Dia:2mm,3,2mm,4mm
Tensile1960 N/mm²,2160 N/mm²
Intended for manipulating a hand brake and window lifters.



STO 71915393-TU 061-2008

Pulse Tube

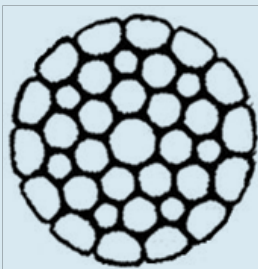
Construction :1x31(steel tube +14+17) - Dia:9,1mm
Construction :1x36(steel tube +18+18) - Dia:11,1mm
Is applied in the gas and oil industry as a part of an equipment system for measured reagent feeding into the well.

The main advantages of reagent measured infeed:

- Decrease in the frequency of repairs
- Decrease in the cleaning frequency
- High accuracy of the reagent (equipment allows to monitor reagent's heating until a certain temperature and control over its concentration)

- Automatic reagent's infeed
- Decrease in well operating costs

A pulse tube is a steel wire rope with a tube metal core in the form of thin-wall stainless steel tube, which has a double-braided steel wire protection from mechanical damages. Out of the unit through continuous pipe-line infeed, reagent flows to the deep-well pump service area, as well as into the annular space. In the course of the oil extraction, the reagent dissolves paraffin wax contained in the oil, promoting an increase in the operational life of the equipment.



STO 71915393-TU 064-2008

Ground Wire for Overhead Power Transmission Lines

Construction :1x36 (1+7+7/7+14)
Dia:8mm~22.5mm // Tensile:1770 N/mm²,1860 N/mm²,1960 N/mm²
Intended to be hung up on power transmission lines as protection from direct lightning strikes. Manufactured from galvanized wire with a Heavy Zinc Coating



b.p.f_013



b.p.f_014



b.p.f_015



b.p.f_016



b.p.f_017



b.p.f_018



b.p.f_019



b.p.f_019



b.p.f_021



b.p.f_022



b.p.f_023



b.p.f_024



b.p.f_025



b.p.f_026



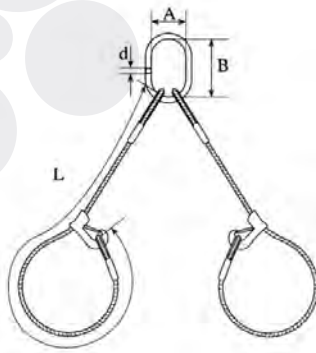
b.p.f_027



b.p.f_028



b.p.f_029



b.p.f_030



b.p.f_031



b.p.f_032



b.p.f_033



b.p.f_034



b.p.f_035



b.p.f_036



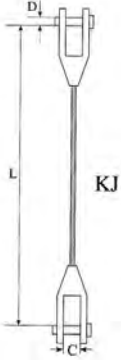
b.p.f_037



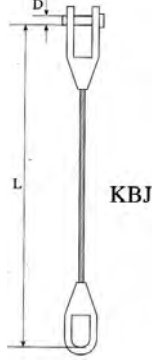
b.p.f_038



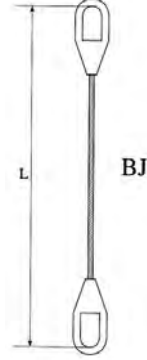
b.p.f_039



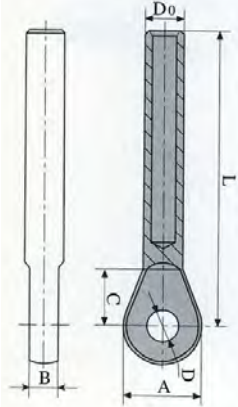
b.p.f_040



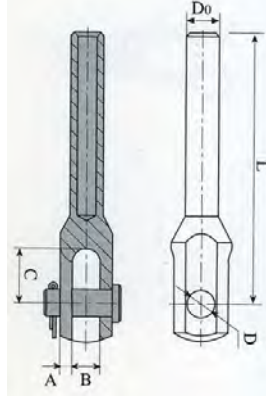
b.p.f_041



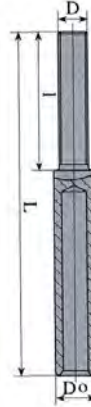
b.p.f_042



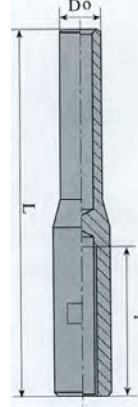
b.p.f_043



b.p.f_044



b.p.f_045



b.p.f_046



b.p.f_047



b.p.f_048



WIRE POPE CLIPS



Figure 1



Figure 2



Figure 3



Figure 4

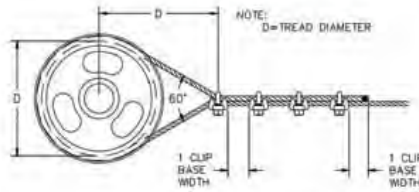
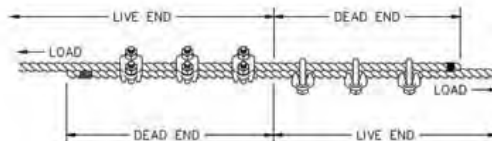


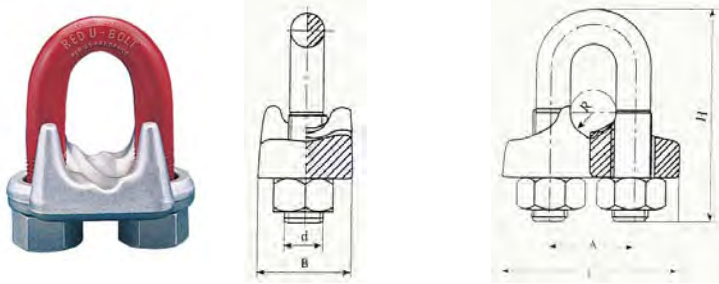
Figure 5



Figure 6



بست بکسل - کلیپس - کریپی



CLIPS SPECIFICATIONS

Size		Code کد	Dimensions (mm)						Net weight (Kg)
mm	in		A	B	C	R	H	d	
3	1/8	B.P.F-02-0001	-	-	-	-	-	M3	0.01
5	1/5	B.P.F-02-0002	-	-	-	-	-	58	0.02
6	1/4	B.P.F-02-0003	13.0	14	27	3.5	31	M6	0.03
8	5/16	B.P.F-02-0004	17.0	19	36	4.5	41	M8	0.07
10	3/8	B.P.F-02-0005	21.0	23	44	5.5	51	M10	0.14
12	1/2	B.P.F-02-0006	25.0	28	53	6.5	62	M12	0.24
14	9/16	B.P.F-02-0007	29.0	32	61	7.5	72	M14	0.37
16	5/8	B.P.F-02-0008	33.0	35	68	8.5	82	M16	0.54
18	3/4	B.P.F-02-0009	37.0	37	74	10.5	92	M18	0.62
20	3/4	B.P.F-02-0010	37.0	37	74	10.5	92	M18	0.62
24	1	B.P.F-02-0011	45.5	46	91	13.0	113	M20	1.21
28	1 1/8	B.P.F-02-0012	51.5	51	102	15.0	127	M22	1.61
32	1 1/4	B.P.F-02-0013	55.5	51	106	17.0	136	M22	1.73
36	1 3/8	B.P.F-02-0014	61.5	55	116	19.5	151	M24	2.29
40	1 1/2	B.P.F-02-0015	69.0	62	131	21.5	168	M27	3.13
44	1 3/4	B.P.F-02-0016	73.0	62	135	23.5	178	M27	3.47
48	2	B.P.F-02-0017	80.0	69	149	25.5	196	M30	4.70
52	2	B.P.F-02-0018	84.5	69	153	28.0	205	M30	4.90
56	2 1/4	B.P.F-02-0019	88.5	69	157	30.0	214	M30	5.08
60	2 1/2	B.P.F-02-0020	98.5	83	181	32.0	237	M36	7.92



روش صحیح اتصال برای حداکثر نیروی طناب

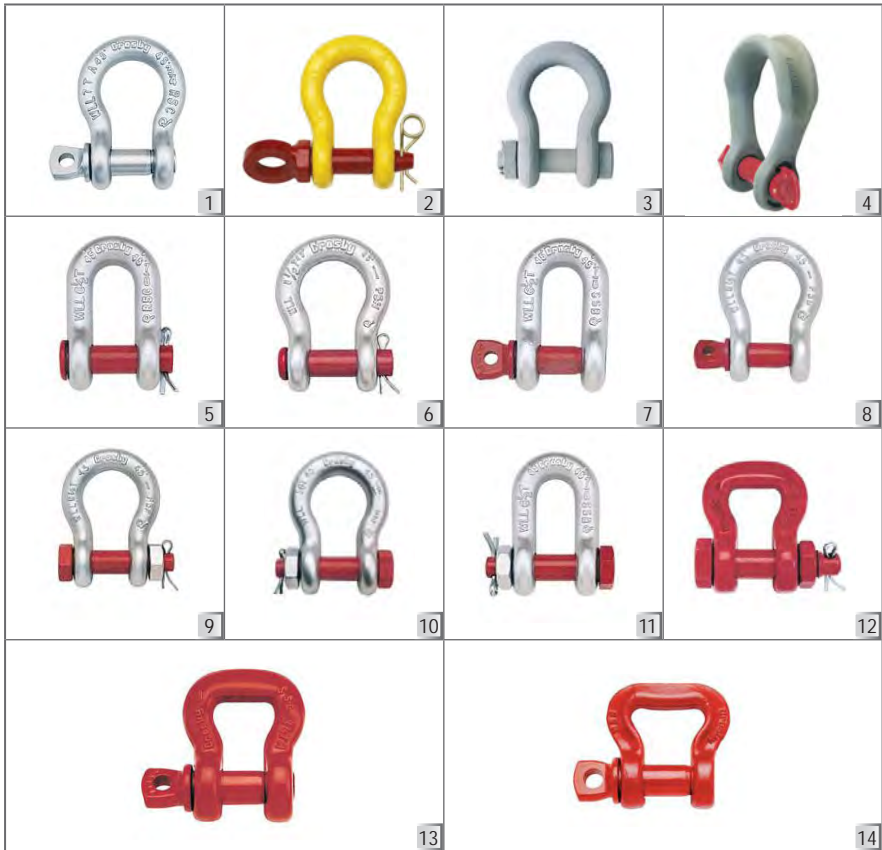


روش غلط: بست وسطی صحیح وکناری ها بصورت وارونه متصل شده اند



روش غلط: بست ها وارونه هستند

SHACKLE



CONNECTION OF SLINGS TO SHACKLES

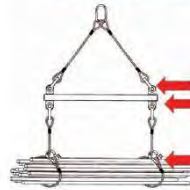
Diameter of shackle must be greater than wire rope diameter if no thimble in eye.



Shackle must be large enough to avoid pinching of synthetic slings.

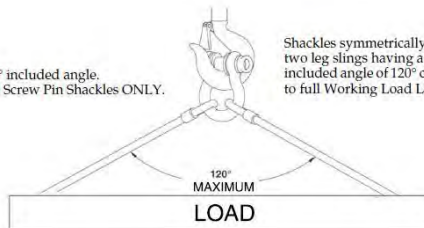


BOLT-TYPE SHACKLE



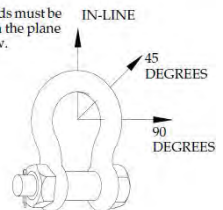
Use Bolt-Type Shackle when a permanent or long term connection
Use a screw pin shackles when it will be a temporary connection.

Never Exceed 120° included angle.
Use Bolt Type and Screw Pin Shackles ONLY.

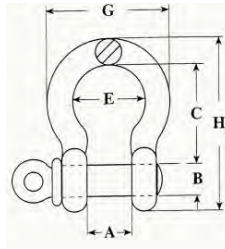


Shackles symmetrically loaded with two leg slings having a maximum included angle of 120° can be utilized to full Working Load Limit.

Angle loads must be applied in the plane of the bow.



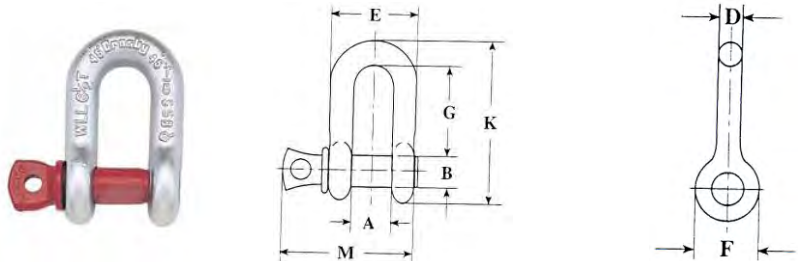
قلاب یو- پیمی ساده- شکل نعلی شکل



ANCHOR SHACKLE SPECIFICATIONS

Size		WLL (Ton)	Code کد	Dimensions (mm)								Net weight (Kg)
mm	in			A	B	C	D	E	F	G	H	
4.5	3/16	0.33	B.P.F-03-0001	9.7	6.4	22.4	4.8	15.2	14.2	24.9	37.3	0.03
6	1/4	0.5	B.P.F-03-0002	11.9	7.9	28.7	6.4	19.8	15.5	32.5	46.7	0.05
8	5/16	0.75	B.P.F-03-0003	13.5	9.7	30.9	7.9	21.3	19.1	37.3	53.1	0.09
10	3/8	1	B.P.F-03-0004	16.8	11.2	36.6	9.7	26.2	23.1	45.2	63.2	0.14
11	7/16	1.5	B.P.F-03-0005	19.1	12.7	42.9	11.2	29.5	26.9	51.6	73.9	0.17
12	1/2	2	B.P.F-03-0006	20.6	16.0	47.8	12.7	33.3	30.2	58.7	83.3	0.33
16	5/8	3.25	B.P.F-03-0007	26.9	19.1	60.5	16.0	42.9	38.1	74.7	106.4	0.62
18	3/4	4.75	B.P.F-03-0008	31.8	22.4	71.4	19.1	50.8	46.0	88.9	126.2	1.07
22	7/8	6.5	B.P.F-03-0009	36.6	25.4	84.1	22.4	57.9	53.1	102.4	148.1	1.64
24	1	8.5	B.P.F-03-0010	42.9	28.7	95.3	25.4	68.3	60.5	119.1	166.6	2.28
28	1 1/8	9.5	B.P.F-03-0011	45.0	31.8	108.0	29.5	73.9	68.3	131.1	189.7	3.36
32	1 1/4	12	B.P.F-03-0012	51.6	35.1	119.1	32.8	82.6	76.2	146.1	209.6	4.31
36	1 3/8	13.5	B.P.F-03-0013	57.2	38.1	133.4	36.1	92.2	84.1	162.1	232.7	6.14
40	1 1/2	17	B.P.F-03-0014	60.5	41.4	146.1	39.1	98.6	92.2	174.8	254	7.80
44	1 3/4	25	B.P.F-03-0015	73.2	50.8	177.8	46.7	127	106.4	225.0	314.4	12.60
50	2	35	B.P.F-03-0016	82.6	57.2	196.9	52.8	146.1	122.2	253.2	347.5	20.41
60	2 1/2	55	B.P.F-03-0017	104.9	69.9	266.7	68.8	184.2	144.5	326.9	453.1	38.90
65	2 3/2	85	B.P.F-03-0018	105	70	267	69	185	14.5	327	455	69.85
75	3	120	B.P.F-03-0019	127	82.5	330	79.0	200	165	365	546	81
89	3 1/2	150	B.P.F-03-0020	133	95.5	372	92.0	229	203	419	625	120
100	4	175	B.P.F-03-0021	140	108	368	104	254	229	468	626	153
120	4 3/4	200	B.P.F-03-0022	184	121	397	114	279	267	533	743	204
127	5	250	B.P.F-03-0023	216	127	508	114	330	305	622	889	272
152	6	300	B.P.F-03-0024	213	152	495	127	330	305	635	895	352
178	7	400	B.P.F-03-0025	210	175	572	152	330	356	660	1022	500

قلاب یو- پیمی ساده- شکل یو شکل



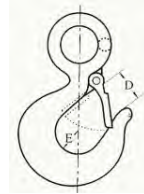
D SHACKLE SPECIFICATIONS

Size		WLL (Ton)	Code کد	Dimensions (mm)									Net weight (Kg)
mm	in			A	B	D	E	F	G	K	M		
4.5	3/16	0.33	B.P.F-04-0001	9.7	6.4	5.6	20.6	10.5	20.3	32.8	28.9	0.03	
6	1/4	0.5	B.P.F-04-0002	12.0	7.9	6.4	23.9	15.5	22.4	40.4	35.1	0.05	
8	5/16	0.75	B.P.F-04-0003	13.5	9.7	7.9	29.5	19.1	26.2	48.5	42.2	0.08	
10	3/8	1	B.P.F-04-0004	16.8	11.2	9.7	35.8	23.1	31.8	58.4	51.6	0.13	
11	7/16	1.5	B.P.F-04-0005	19.1	12.7	11.2	41.4	26.9	36.6	67.6	60.5	0.20	
12	1/2	2	B.P.F-04-0006	20.6	16.0	12.7	45.0	30.2	41.4	77.0	68.3	0.27	
16	5/8	3.25	B.P.F-04-0007	27.0	19.3	16.0	58.7	38.1	50.8	95.3	84.8	0.57	
18	3/4	4.75	B.P.F-04-0008	31.8	22.4	19.1	69.9	46.0	60.5	115.1	100.8	1.19	
22	7/8	6.5	B.P.F-04-0009	36.6	25.4	22.4	81.0	53.1	71.4	135.4	114.3	1.43	
24	1	8.5	B.P.F-04-0010	43.0	28.7	25.4	93.7	60.5	81.0	150.9	128.8	2.15	
28	1 1/8	9.5	B.P.F-04-0011	46.0	31.8	28.7	103.1	68.3	90.9	172.2	142.0	3.06	
32	1 1/4	12	B.P.F-04-0012	51.6	35.1	31.8	115.1	76.2	100.1	190.5	156.5	4.11	
36	1 3/8	13.5	B.P.F-04-0013	57.2	38.1	35.1	127	84.1	111.3	210.3	173.7	5.28	
40	1 1/2	17	B.P.F-04-0014	60.5	41.4	38.1	136.6	91.9	122.2	230.1	186.7	7.23	
44	1 3/4	25	B.P.F-04-0015	73.2	50.8	44.5	162.1	106.4	146.1	278.6	230.6	12.13	
50	2	35	B.P.F-04-0016	82.6	57.2	50.8	184.2	122.2	171.5	311.9	262.6	19.19	
60	2 1/2	55	B.P.F-04-0017	105.0	69.9	66.5	238.3	144.5	203.2	376.9	330.2	32.55	
75	3	85	B.P.F-04-0018	127	82.6	76.2	279.4	165.1	215.9	428.8	-	56.36	
89	3 1/2	120	B.P.F-04-0019	133.4	95.3	91.9	-	203.2	-	-	-	110	
100	4	150	B.P.F-04-0020	139.7	108	104.1	-	228.6	-	-	-	145	

HOOK

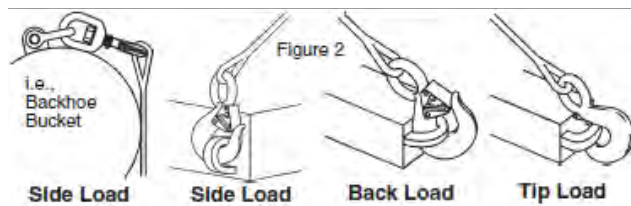


قلاب S ضامن دار



EYE HOOKS SPECIFICATIONS

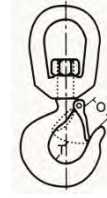
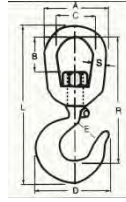
WLL (Ton)	Code S	Dimensions (in)					Net weight (Lbs/pc)
		A	B	C	D	E	
0.75	B.P.F-05-0001	0.63	0.87	2.80	0.81	0.65	0.35
1	B.P.F-05-0002	0.75	0.94	3.22	0.88	0.81	0.55
1.5	B.P.F-05-0003	0.91	1.03	3.66	0.97	0.81	0.75
2	B.P.F-05-0004	1.12	1.06	4.09	1.00	0.84	1.25
3	B.P.F-05-0005	1.25	1.22	4.69	1.12	1.19	1.70
4.5	B.P.F-05-0006	1.56	1.50	5.78	1.34	1.38	3.60
7	B.P.F-05-0007	2.00	1.88	7.38	1.69	1.78	7.08
11	B.P.F-05-0008	2.25	2.06	9.06	2.06	2.12	13.00
15	B.P.F-05-0009	2.84	3.25	10.19	2.27	2.26	21.60
22	B.P.F-05-0010	3.50	5.00	12.51	3.30	2.83	39.50
30	B.P.F-05-0011	3.50	6.49	14.05	4.01	3.44	60.04
37	B.P.F-05-0012	4.48	7.00	18.18	4.25	3.87	105.00
45	B.P.F-05-0013	4.92	7.99	20.11	4.76	4.76	147.90
60	B.P.F-05-0014	5.70	10	23.70	5.74	5.70	227.37



SWIVEL HOOK



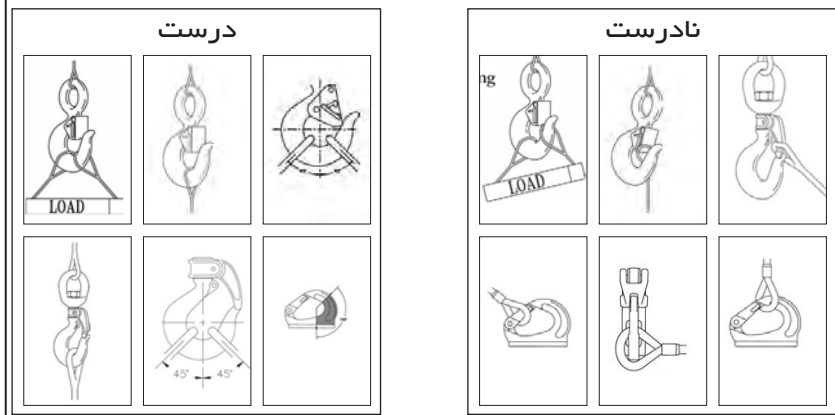
قلاب S گردان



SWIVEL HOOKS SPECIFICATIONS

WLL (Ton)	Code کد	Dimensions (in)										Net weight (Lbs\ pc)
		A	B	C	D	E	L	R	S	T	O	
1	B.P.F-06-0001	2	0.94	1.25	2.87	0.94	5.56	4.47	0.37	0.82	0.87	0.75
1.5	B.P.F-06-0002	2.5	1.32	1.5	3.18	1.03	6.62	5.29	0.5	0.82	0.97	1.25
2	B.P.F-06-0003	3	1.62	1.75	3.62	1.06	7.62	6.02	0.63	0.84	1	2.25
3	B.P.F-06-0004	3	1.57	1.75	4.09	1.22	8.12	6.38	0.63	1.18	1.12	2.57
4.5	B.P.F-06-0005	3.5	1.75	2	4.94	1.5	9.60	7.4	0.75	1.37	1.35	4.75
7	B.P.F-06-0006	4.5	2.32	2.5	6.5	1.87	12.4	9.60	1	1.78	1.69	10.29
11	B.P.F-06-0007	5	2.38	2.75	7.56	2.25	11.1	11.1	1.12	2.12	2.07	16.25
16	B.P.F-06-0008	5.6	2.48	3.11	8.34	3.24	13.50	12.24	1.25	2.70	2.61	23.17
22	B.P.F-06-0009	7	3.75	4.09	10.35	4.25	21.33	16.69	1.53	3.55	3.40	47.01
30	B.P.F-06-0010	7	3.75	4.09	13.62	5	23.22	18.07	1.54	4.23	4.04	70.64

نحوه استفاده

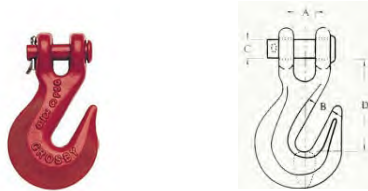


CHAIN HOOK

قلاب S دانه گیر



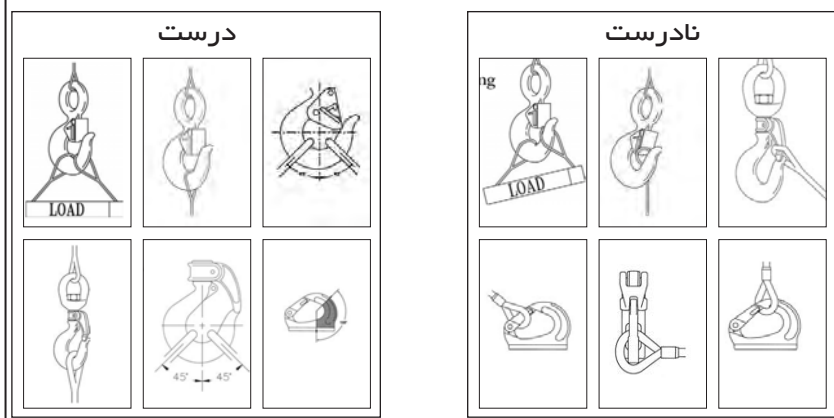
قلاب S دانه گیر



CHAIN HOOKS SPECIFICATIONS

Chain Size	Code کد	Dimensions (in)				WLL		Net weight (Lbs\ pc)	
		A	B	C	D	Ton	Lbs		
1/4	7	B.P.F-07-0001	0.36	0.40	0.38	1.97	1.64	3600	0.40
5/16	8	B.P.F-07-0002	0.40	0.44	0.44	2.26	2.45	5400	0.79
3/8	10	B.P.F-07-0003	0.48	0.50	0.47	2.63	3.40	7500	1.00
7/16	11	B.P.F-07-0004	0.66	0.56	0.56	2.75	4.53	10000	1.50
1/2	13	B.P.F-07-0005	0.75	0.66	0.63	3.19	5.78	12750	2.10
5/8	16	B.P.F-07-0006	0.91	0.78	0.75	4.09	8.60	19000	4.20
3/4	19	B.P.F-07-0007	0.94	0.94	0.88	4.63	12.24	27000	6.50
7/8	22	B.P.F-07-0008	-	1	-	-	15.40	34000	-

نحوه استفاده

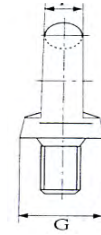
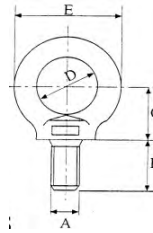


EYE BOLTS

قلاب قرقره



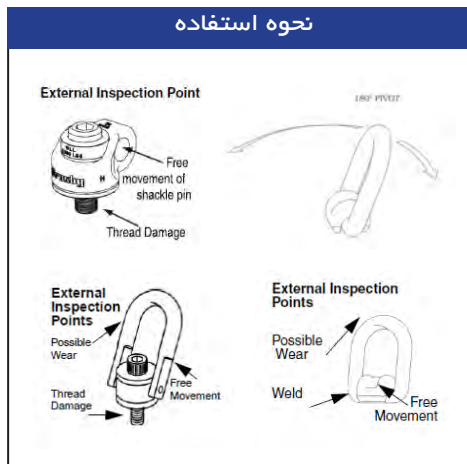
بیج دینام



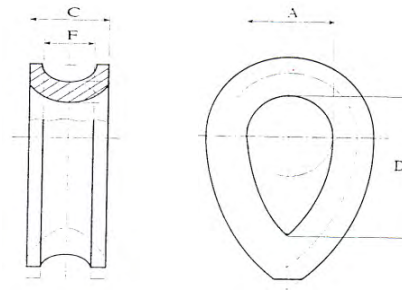
EYE BOLTS SPECIFICATIONS

Size (A) (mm)	Max. Load (Ton)	Code کد	Dimensions (mm)						Net weight (Kg/100pc)
			B	C	D	E	F	G	
M8	0.16	B.P.F-08-0001	16	18	20	36	9.10	21.10	4.1
M10	0.25	B.P.F-08-0002	20	22	24	44	11.10	25.10	7.8
M12	0.40	B.P.F-08-0003	22	26	28	52	13.10	29.10	13.2
M16	0.63	B.P.F-08-0004	28	31	34	62	15.20	35.20	23.4
M20	1.00	B.P.F-08-0005	35	36	40	72	17.40	41.40	38.5
M24	1.60	B.P.F-08-0006	40	44	48	88	21.40	49.40	70.5
M30	2.50	B.P.F-08-0007	45	53	56	104	25.70	57.70	120.5
M36	4.00	B.P.F-08-0008	55	63	67	123	30.00	69.00	200.0
M42	6.30	B.P.F-08-0009	65	74	80	144	34.40	82.40	307.0
M48	8.00	B.P.F-08-0010	70	87	95	171	40.70	97.70	495.0
M56	10.00	B.P.F-08-0011	80	100	112	196	44.70	114.70	715.5
M64	16.00	B.P.F-08-0012	90	115	125	221	51.40	128.40	1038
M72	20.00	B.P.F-08-0013	100	130	140	260	63.80	143.80	1776
M80	25.00	B.P.F-08-0014	115	150	160	296	71.80	163.80	2589
M100	40.00	B.P.F-08-0015		175	200	650	79.20	204.20	4027

نحوه استفاده



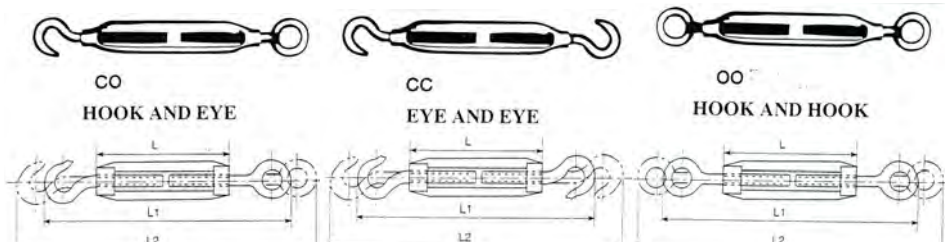
گوشواره



THIMBLES SPECIFICATIONS

Size (mm)	Code کد	Dimensions (mm)				Net weight (Kg)
		A	B	C	R	
6	B.P.F-09-0001	6.5	10	15	27	0.03
8	B.P.F-09-0002	8.6	14	20	36	0.07
10	B.P.F-09-0003	10.8	17	25	45	0.15
12	B.P.F-09-0004	12.9	21	30	54	0.25
14	B.P.F-09-0005	15.1	24	35	63	0.39
16	B.P.F-09-0006	17.2	28	40	72	0.60
18	B.P.F-09-0007	19.4	31	45	81	0.87
20	B.P.F-09-0008	21.5	35	50	90	1.20
22	B.P.F-09-0009	23.7	38	55	99	1.56
24	B.P.F-09-0010	25.8	42	60	108	2.05
26	B.P.F-09-0011	28.0	45	65	117	2.62
28	B.P.F-09-0012	30.1	49	70	126	3.29
32	B.P.F-09-0013	34.4	56	80	144	4.85
36	B.P.F-09-0014	38.7	63	90	162	6.97
40	B.P.F-09-0015	43.0	70	100	180	9.62
44	B.P.F-09-0016	47.3	77	110	198	12.81
48	B.P.F-09-0017	51.6	84	120	216	16.60
52	B.P.F-09-0018	55.9	91	130	234	20.95
56	B.P.F-09-0019	60.2	98	140	252	26.31
60	B.P.F-09-0020	64.5	105	150	270	31.40

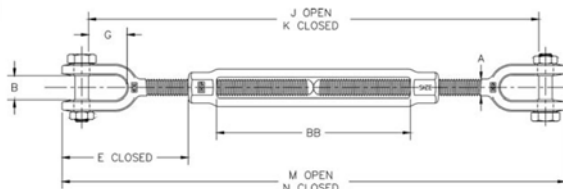
مهارکش



TURNBUCKLES SPECIFICATIONS

Size	WLL (N)	Code کد	Rope Dia (mm)	Thread Dia(d)	L (mm)	L1 (mm)	L2 (mm)	N.W (Kg/pc)
CO	700	B.P.F-10-0001	2.2	M6	100	172	250	0.08
	1000	B.P.F-10-0002	3.3	M8	125	212	304	0.15
	2300	B.P.F-10-0003	4.5	M10	150	256	368	0.28
	3200	B.P.F-10-0004	5.5	M12	200	324	466	0.50
	6300	B.P.F-10-0005	8.5	M16	250	414	610	1.10
	9800	B.P.F-10-0006	9.5	M20	300	495	715	1.90
CC	700	B.P.F-10-0007	2.2	M6	100	180	258	0.08
	1000	B.P.F-10-0008	3.3	M8	125	225	317	0.15
	2300	B.P.F-10-0009	4.5	M10	150	266	378	0.27
	3200	B.P.F-10-0010	5.5	M12	200	334	476	0.50
	6300	B.P.F-10-0011	8.5	M16	250	442	638	1.05
	9800	B.P.F-10-0012	9.5	M20	300	520	740	1.80
	1000	B.P.F-10-0013	6.5	M6	100	164	242	0.08
OO	2000	B.P.F-10-0014	8.0	M8	125	199	291	0.16
	3000	B.P.F-10-0015	9.5	M10	150	246	358	0.30
	4300	B.P.F-10-0016	11.5	M12	200	314	456	0.50
	8000	B.P.F-10-0017	15.0	M16	250	386	582	1.15
	13000	B.P.F-10-0018	19.0	M20	300	470	690	1.95
	17000	B.P.F-10-0019	21.5	M22	350	540	806	2.70
	19000	B.P.F-10-0020	22.5	M24	400	610	922	3.20
	24000	B.P.F-10-0021	28.0	M27	450	680	1030	5.50
	30000	B.P.F-10-0022	31.0	M30	450	700	1050	7.50
	38000	B.P.F-10-0023	34.0	M33	500	770	1158	-
	45000	B.P.F-10-0024	37.0	M36	550	840	1270	-





THIMBLES SPECIFICATIONS

Thread Dia & Take up (in.)	Code کد	Work- ing load limite(lbs)	Weight each (lbs)	Dimensions (mm)								
				A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
1/4×4	B.P.F-10-0025	500	.37	.25	.45	1.66	.64	11.19	7.19	12.18	8.18	4.07
5/16×4-1/2	B.P.F-10-0026	800	.56	.31	.50	2.02	.87	13.07	8.57	14.12	9.62	4.58
3/8×6	B.P.F-10-0027	1200	.85	.38	.53	2.11	.85	16.25	10.25	17.50	11.50	6.10
1/2×6	B.P.F-10-0028	2200	1.82	.50	.64	3.22	1.07	18.65	12.65	20.14	14.14	6.03
1/2×9	B.P.F-10-0029	2200	2.29	.50	.64	3.20	1.07	24.94	15.94	26.43	17.43	9.36
1/2×12	B.P.F-10-0030	2200	2.71	.50	.64	3.20	1.07	30.94	18.94	32.43	20.43	12.36
5/8×6	B.P.F-10-0031	3500	3.21	.63	.79	3.90	1.32	19.74	13.74	21.82	15.82	6.03
5/8×9	B.P.F-10-0032	3500	3.95	.63	.79	3.89	1.32	26.08	17.08	28.16	19.16	9.39
5/8×12	B.P.F-10-0033	3500	4.58	.63	.79	3.89	1.32	32.08	20.08	34.16	22.16	12.39
3/4×6	B.P.F-10-0034	5200	4.80	.75	.97	4.71	1.52	21.09	15.09	23.68	17.68	6.13
3/4×9	B.P.F-10-0035	5200	5.85	.75	.97	4.68	1.52	27.49	18.49	30.08	21.08	9.59
3/4×12	B.P.F-10-0036	5200	6.72	.75	.97	4.68	1.52	33.49	21.49	36.08	24.08	12.59
3/4×18	B.P.F-10-0037	5200	8.45	.75	.97	4.71	1.52	45.49	27.49	48.08	30.08	18.53
7/8×12	B.P.F-10-0038	7200	9.37	.88	1.16	5.50	1.77	34.65	22.65	37.62	25.62	12.16
7/8×18	B.P.F-10-0039	7200	11.8	.88	1.16	5.50	1.77	47.12	29.12	50.09	32.09	18.63
1×6	B.P.F-10-0040	10000	10.4	1.00	1.34	6.09	2.05	23.82	17.82	27.18	21.18	6.18
1×12	B.P.F-10-0041	10000	13.8	1.00	1.34	6.09	2.05	35.82	23.82	39.18	27.18	12.18
1×18	B.P.F-10-0042	10000	17.1	1.00	1.34	6.09	2.05	47.82	29.82	51.18	33.18	18.18
1×24	B.P.F-10-0043	10000	21.0	1.00	1.34	6.06	2.05	60.42	36.42	63.78	39.78	24.84
1-1/4×12	B.P.F-10-0044	15200	21.9	1.25	1.84	8.09	2.82	39.37	27.37	43.58	31.58	12.06
1-1/4×18	B.P.F-10-0045	15200	25.9	1.25	1.84	8.09	2.82	51.37	33.37	55.58	37.58	18.06
1-1/4×24	B.P.F-10-0046	15200	29.8	1.25	1.84	8.09	2.82	63.93	39.93	68.14	44.14	24.62
1-1/2×12	B.P.F-10-0047	21400	32.6	1.50	2.06	8.93	2.81	40.76	28.76	45.68	33.68	12.32
1-1/2×18	B.P.F-10-0048	21400	38.0	1.50	2.06	8.93	2.81	52.76	34.76	57.68	39.68	18.32
1-1/2×24	B.P.F-10-0049	21400	43.5	1.50	2.06	8.93	2.81	65.38	41.38	70.30	46.30	24.94
1-3/4×18	B.P.F-10-0050	28000	53.5	1.75	2.60	9.36	3.35	53.35	35.35	59.16	41.16	18.37
1-3/4×24	B.P.F-10-0051	28000	61.1	1.75	2.60	9.36	3.35	65.35	41.35	71.16	47.16	24.37
2×24	B.P.F-10-0052	37000	96.3	2.00	2.62	11.80	3.74	69.64	45.64	76.72	52.72	24.48
2-1/2×24	B.P.F-10-0053	60000	167	2.50	3.06	13.26	4.44	72.97	48.97	82.18	58.18	24.60
2-3/4×24	B.P.F-10-0054	75000	199	2.75	3.69	14.92	4.19	74.75	50.75	85.50	61.50	24.65

حلقه بیضی

Single Leg



Endless



Two Leg



Three and Four Leg



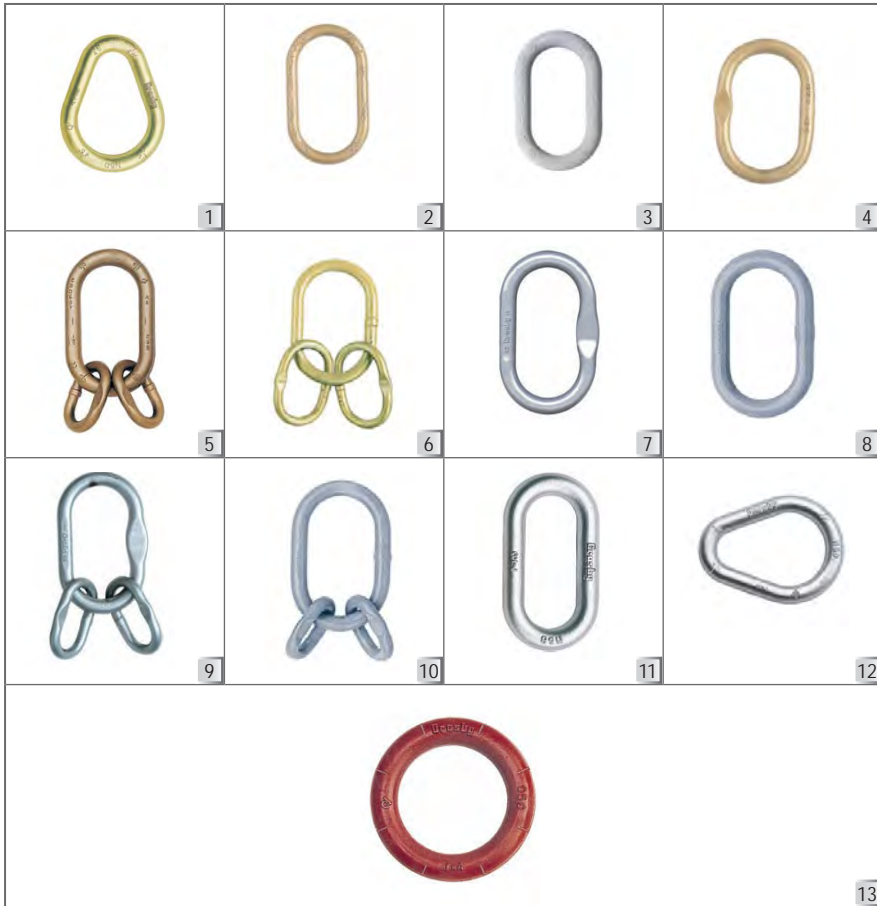
MASTER LINK SPECIFICATIONS

Chain size(mm)	Pitch (mm)	Weight Kg/m	Code كد	Single Leg/t	Endless/t	Two leg/t		Three and four leg/t	
						0-45	45-60	0-45	45-60
6	18	0.8	B.P.F-15-0001	1.12	1.80	1.60	1.12	2.36	1.70
7	21	1.1	B.P.F-15-0002	1.50	2.50	2.10	1.50	3.10	2.20
8	24	1.4	B.P.F-15-0003	2.00	3.15	2.80	2.00	4.20	3.00
10	30	2.2	B.P.F-15-0004	3.15	5.00	4.25	3.15	6.70	4.75
13	39	3.7	B.P.F-15-0005	5.30	8.50	7.50	5.30	11.20	8.00
16	48	5.7	B.P.F-15-0006	8.00	12.50	11.20	8.00	17.00	11.80
18	54	7.2	B.P.F-15-0007	10.00	16.00	14.00	10.00	21.25	14.75
19	54	8.9	B.P.F-15-0008	11.20	18.00	15.60	11.50	23.50	16.80
20	60	9.1	B.P.F-15-0009	12.50	20.00	17.50	12.50	26.50	19.00
22	66	10.9	B.P.F-15-0010	15.50	23.60	21.20	15.00	31.50	22.40
26	78	15.2	B.P.F-15-0011	21.50	33.50	30.00	21.20	45.00	31.50
28	84	17.6	B.P.F-15-0012	25.00	38.00	33.50	25.00	50.00	37.50
32	96	23.0	B.P.F-15-0013	31.50	50.00	45.00	31.50	67.00	47.50
36	108	29.0	B.P.F-15-0014	40.00	--	56.00	40.00	85.00	60.00
40	120	36.0	B.P.F-15-0015	50.00	--	71.00	50.00	106.00	75.00
45	135	45.5	B.P.F-15-0016	63.00	--	90.00	63.00	132.00	95.00
50	150	56.0	B.P.F-15-0017	80.00	--	112.00	80.00	170.00	118.00
56	168	72.5	B.P.F-15-0018	100.00	--	140.00	100.00	212.00	150.00

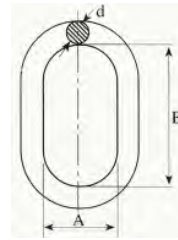


Ring

حلقه



حلقه بیضی



MASTER LINK SPECIFICATIONS

Size (d)		Code کد	WLL		Dimensions (mm)			N.W (Kg/pc)
(in)	(mm)		Ton	Lbs	d	A	B	
1/2	12	B.P.F-11-0001	1.86	4100	12	55	110	0.40
5/8	16	B.P.F-11-0002	2.50	5500	16	65	130	0.53
3/4	20	B.P.F-11-0003	3.20	8600	20	80	150	1.00
1	24	B.P.F-11-0004	5.00	14450	24	90	160	1.60
1 1/8	28	B.P.F-11-0005	8.00	17660	28	100	190	2.40
1 1/4	32	B.P.F-11-0006	10.00	20300	32	110	200	3.50
1 3/8	34	B.P.F-11-0007	12.50	29000	34	120	230	4.40
1 1/2	38	B.P.F-11-0008	16.00	39900	38	135	250	6.10
1 5/8	42	B.P.F-11-0009	20.00	44150	42	140	270	9.00
1 7/8	46	B.P.F-11-0010	25.00	59000	46	160	310	11.8
2	52	B.P.F-11-0011	30.00	66300	52	180	330	15.8
2 1/4	56	B.P.F-11-0012	40.00	88300	56	180	330	18.6
2 1/2	62	B.P.F-11-0013	50.00	110400	62	210	410	27.7
2 3/4	68	B.P.F-11-0014	63.00	139000	68	210	410	35.2
3	76	B.P.F-11-0015	80.00	176600	76	240	410	44.8
3 1/4	84	B.P.F-11-0016	100.00	221000	84	240	460	60.2
3 1/2	90	B.P.F-11-0017	120.00	265000	90	254	508	73.7

حلقه گلابی



WELDLESS SLING LINK SPECIFICATIONS

Size (d)		Code کد	WLL		Dimensions (mm)				N.W (Kg/pc)
(in)	(mm)		Ton	Lbs	R	r	d	L	
3/4	20	B.P.F-12-0001	3.20	8600	60	20	20	85	1.24
1 1/8	30	B.P.F-12-0002	5.00	14450	65	25	30	93	3.22
1 1/4	33	B.P.F-12-0003	8.00	17660	75	30	33	100	4.39
1 1/2	38	B.P.F-12-0004	10.00	20300	80	50	38	146	7.35
1 3/4	45	B.P.F-12-0005	16.00	39000	80	50	45	146	10.59

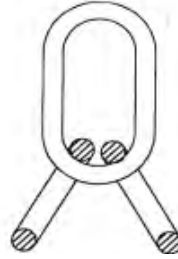
حلقه گرد



WELDLESS RING SPECIFICATIONS

Size (d)		Code کد	WLL		d (mm)	L (mm)	N.W (Kg/pc)
(in)	(mm)		Ton	Lbs			
1	24	B.P.F-13-0001	3.20	8600	24	100	2.77
1/8 1	28	B.P.F-13-0002	5.00	14450	28	150	5.40
1/4 1	33	B.P.F-13-0003	8.00	17660	33	175	8.77
1/2 1	38	B.P.F-13-0004	10.00	20300	38	255	14.71
1 3/4	45	B.P.F-13-0005	16.00	39900	45	225	21.18
2	52	B.P.F-13-0006	20.00	44150	52	250	31.63
2 1/4	58	B.P.F-13-0007	25.00	59000	58	315	48.61

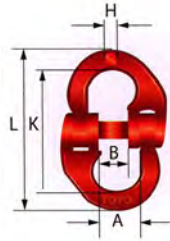
حلقه بیضی ترکیبی



MASTER LINK ASSEMBLY SPECIFICATIONS

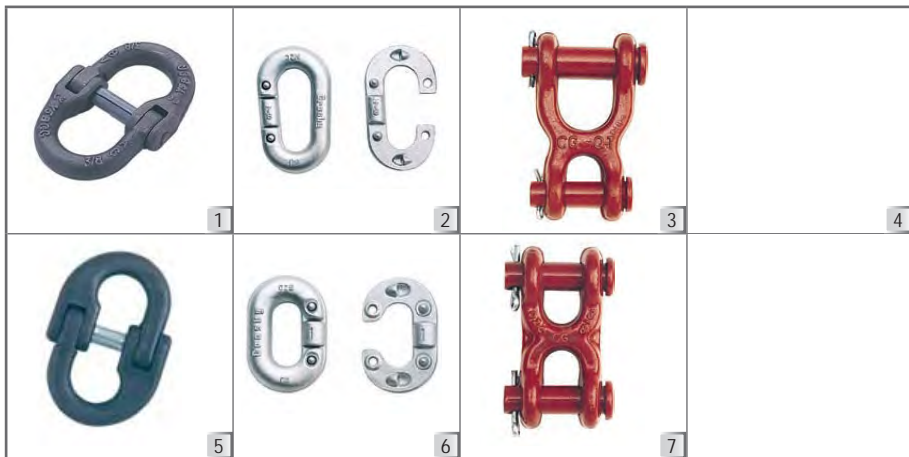
Master link WLL (Ton)	Code کد	WLL (Ton)	Dia of master link (mm)	D (mm)	A (mm)
1	B.P.F-14-0001	0.7	14	10	25
2	B.P.F-14-0002	1.4	18	12	25
3	B.P.F-14-0003	2.2	22	14	30
5	B.P.F-14-0004	3.5	26	18	40
8	B.P.F-14-0005	6.4	32	22	40
10	B.P.F-14-0006	7.0	35	26	50
12	B.P.F-14-0007	8.4	38	28	50
16	B.P.F-14-0008	11.2	42	30	60
20	B.P.F-14-0009	14.0	45	35	70
25	B.P.F-14-0010	17.5	52	38	70
30	B.P.F-14-0011	21.0	55	42	80
40	B.P.F-14-0012	28.0	60	45	80

رابط زنجير

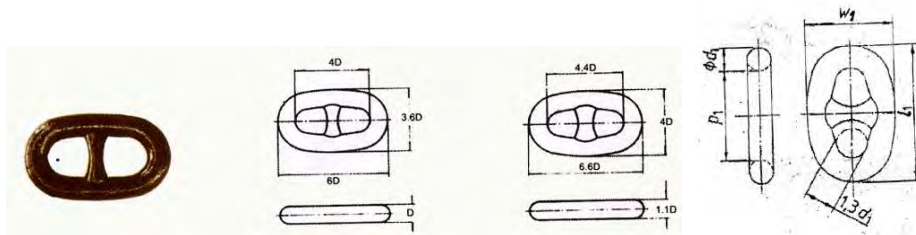


(Grade 2) Anchor Chain Table 2

Code کد	Size	Weight/ kg	WLL/T	B.L/T	A	L	K	H	B
B.P.F-16-0001	6-8	0.14	1.12	4.48	16.2	58	42	7	12.4
B.P.F-16-0002	7/8-8	0.146	2	8	20.5	79.5	62.5	8.5	15.1
B.P.F-16-0003	10-8	0.38	3.15	12.6	28	93	68	10.8	21.3
B.P.F-16-0004	13-8	0.78	5.3	21.2	30	117	87	15	22.5
B.P.F-16-0005	16-8	1.3	8	32	36.3	148	108.4	19.8	26.6
B.P.F-16-0006	18/20-8	2	12.5	50	55	169.5	121.5	24	33.4
B.P.F-16-0007	22-8	3.2	15	60	51	193.5	141.5	26	38
B.P.F-16-0008	26-8	4.5	21.2	84.8	58	220	158	30	43
B.P.F-16-0009	32-8	9	31.5	126	67.5	281	205	37	47.5



زنجیر لنگر و متعلقات آن

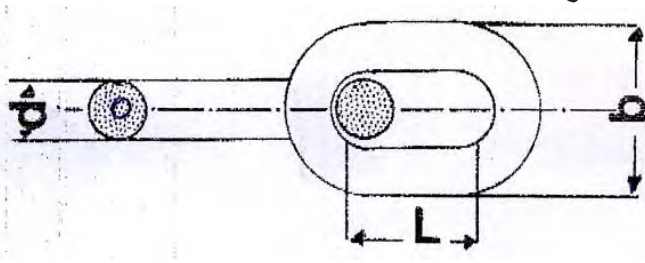


(Grade 2) Anchor Chain Table 2

No	Code کد	D Nominal size nominal diameter of common link (mm)	$d_1 = 1.1d$ Diameter of enlarged link (mm)	$L1 = 6d_1$ Outside length (mm)	$P1 = 4d_1$ Inside length (mm)	$W1 = 3.6 d_1$ Outside width (mm)	Approx. mass (m 27.5) (Kg)
1	B.P.F-19-0001	12.5	14	84	56	50	-----
2	B.P.F-19-0002	14	16	96	64	58	83
3	B.P.F-19-0003	16	17.5	105	70	63	106
4	B.P.F-19-0004	17.5	19	114	76	68	143
5	B.P.F-19-0005	19	20.5	123	82	74	-----
6	B.P.F-19-0006	20.5	22	132	88	79	264
7	B.P.F-19-0007	22	24	144	96	86	305
8	B.P.F-19-0008	24	26	156	104	94	362
9	B.P.F-19-0009	26	28	168	112	101	425
10	B.P.F-19-0010	28	30	180	120	108	493
11	B.P.F-19-0011	30	34	204	136	122	566
12	B.P.F-19-0012	32	36	216	144	130	644
13	B.P.F-19-0013	34	38	228	152	137	727
14	B.P.F-19-0014	36	40	240	160	144	815
15	B.P.F-19-0015	38	42	252	168	151	909
16	B.P.F-19-0016	40	44	264	176	158	1007b
17	(Swivel (sw) for all anchor chain (up						
18	(Joining shackle type kenter (k.s) for all anchor chain (up						
19	(Anchor swivels shackle (A.S. ws) for all anchor chain (up						
20	(Joining shackle type D (J.S) for all anchor chain (up						
21	(Anchor shackle type D (A.S) for all anchor chain (up						



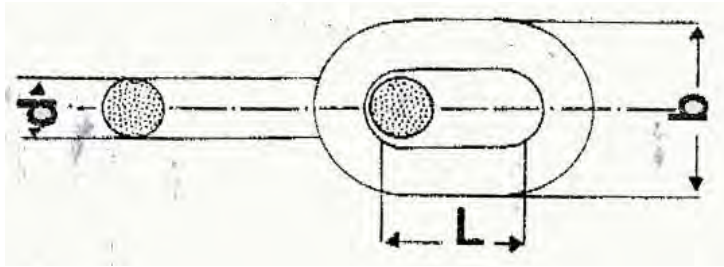
زنجیر آلیاژی
 زنجیر آلیاژی با حلقه های کوتاه برای چرخ دنده ها
 پلیش گالوانیزه و سیاه فولادی



SHORT LINK CHAIN
 Calibrated, tested, normalized
 for pulley blocks, naval use) Finishing:
 Bright polished & galvanized

Nominal Wire Dimeter d(mm)	Code کد	Inside Length (pith) L(mm)	Outside width b(mm)	Weight per meter Kg/m
4	B.P.F-18-0001	12	14	0,356
5	B.P.F-18-0002	18	17	0,483
6	B.P.F-18-0003	20	20	0,730
7	B.P.F-18-0004	20	24	1,063
8	B.P.F-18-0005	24	26	1,315
10	B.P.F-18-0006	28	34	2,000
11	B.P.F-18-0007	32	38	2,631
11	B.P.F-18-0008	54	38	2,000
12	B.P.F-18-0009	35	39	2,857
13	B.P.F-18-0010	39	42	2,941
13	B.P.F-18-0011	42	44	3,150

زنجیر آلیاژی
 زنجیر معمولی با حلقه های کوتاه و بلند
 پلش گالوانیزه و سیاه فولادی



HALF-LONG LINK CHAIN
 Finishing: Bright Polished & galvanized

Nominal Wire Dimeter d(mm)	Code کد	Inside Length (pith) L(mm)	Outside width b(mm)	Weight per meter Kg/m
3	B.P.F-17-0001	16	11	0.165
3.5	B.P.F-17-0002	28	14	0.175
4	B.P.F-17-0003	17.5	15	0.303
4	B.P.F-17-0004	32	15	0.227
4.5	B.P.F-17-0005	19	17	0.392
5	B.P.F-17-0006	25	20	0.526
6	B.P.F-17-0007	27	22	0.676
6	B.P.F-17-0008	32	20	0.625
6	B.P.F-17-0009	38	22	0.602
7	B.P.F-17-0010	31	25	0.892
7	B.P.F-17-0011	42	25	0.826
8	B.P.F-17-0012	32	31	1.330
8	B.P.F-17-0013	52	31	1.923
9	B.P.F-17-0014	37	35	1.587

Chain Sling

<p>b.p.f_01</p> <p>I A8W-HSW Connex</p>	<p>b.p.f_02</p> <p>I A8W-LHW Connex</p>	<p>b.p.f_03</p> <p>I A8W-PW Connex</p>	<p>b.p.f_04</p> <p>I A8W-E Connex</p>
<p>b.p.f_05</p> <p>I-PW Connex</p>	<p>b.p.f_06</p> <p>I HSW-HSW Connex</p>	<p>b.p.f_07</p> <p>I VXKW-KLHW</p>	<p>b.p.f_08</p> <p>II A8W-HSW Connex</p>
<p>b.p.f_09</p> <p>II A8W-LHW Connex</p>	<p>b.p.f_010</p> <p>II A8W-PW Connex</p>	<p>b.p.f_011</p> <p>II A8W-E Connex</p>	<p>b.p.f_012</p> <p>II VXKW-HSW Connex</p>
<p>b.p.f_013</p> <p>II VXKW-KLHW</p>		<p>b.p.f_014</p> <p>II A8W-S-PW Connex</p>	

Chain Sling

<p>b.p.f_015 III A8W-HSW Connex</p>	<p>b.p.f_016 III A8W-LHW Connex</p>	<p>b.p.f_017 III A8W-PW Connex</p>
<p>b.p.f_018 III A8W-E Connex</p>	<p>b.p.f_019 IV VXKW-HSW Connex</p>	<p>b.p.f_020 IV VXKW-KLHW</p>
<p>b.p.f_021 IV A8W-HSW Connex</p>	<p>b.p.f_022 IV A8W-E Connex</p>	<p>b.p.f_023 II A8W-S Connex</p>
<p>b.p.f_024 IV A8W-S Connex</p>	<p>b.p.f_025 S</p>	<p>b.p.f_026 SK</p>

Snatch Blocks

قلاب قرقره

 1	 2	 3	 4	 5	 6
 7	 8	 9	 10	 11	 12
 13	 14	 15	 16	 17	 18
 19	 20	 21	 22	 23	 24
 25	 26	 27	 28	 29	 30
 31	 32	 33	 34	 35	 36

Snatch Blocks

قلاب قرقره

 37	 38	 39	 40	 41	 42
 43	 44	 45	 46	 47	 48
 49	 50	 51	 52	 53	 54
 55	 56	 57	 58	 59	 60
 61	 62	 63	 64	 65	 66
 67	 68	 69	 70	 71	 72

قلاب قرقره

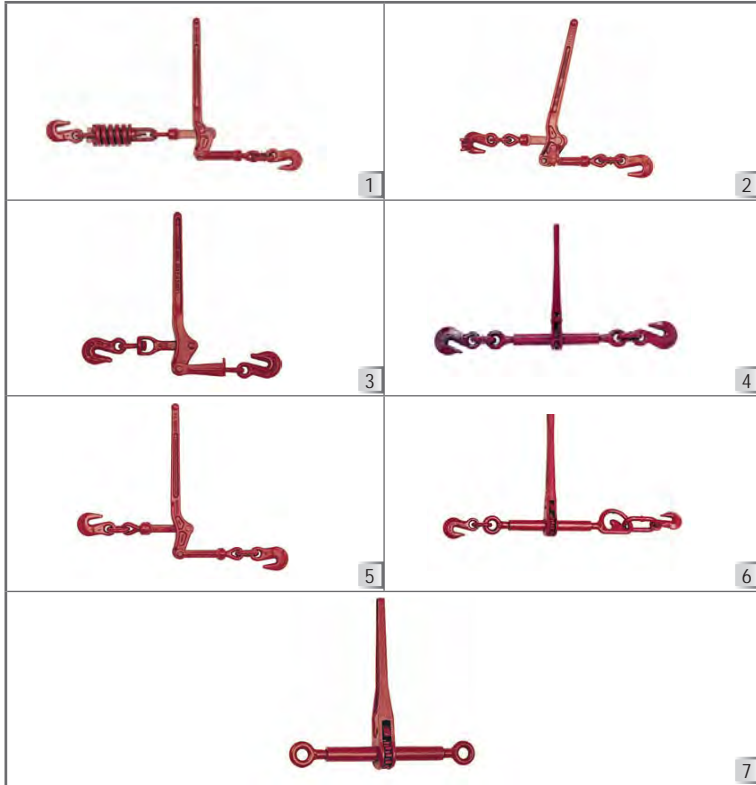


SNATCH BLOCKS SPECIFICATIONS

Name	Size	Code کد	WLL (Ton)	Dimensions (mm)		Wheel dia (mm)	Net weight (Kg)
				common	max		
Wheel open mouth hook polley	HQG(L) ZK1- 0.5	B.P.F-20-0001	0.5	6.2	7.7	71	1.75
	HQG(L) ZK1- 1	B.P.F-20-0002	1.0	7.7	11.0	85	3.25
	HQG(L) ZK1- 2	B.P.F-20-0003	2.0	11.0	14.0	112	6.00
	HQG(L) ZK1- 3.2	B.P.F-20-0004	3.2	12.5	15.5	132	10.50
	HQG(L) ZK1- 5	B.P.F-20-0005	5.0	15.5	18.5	160	19.00
	HQG(L) ZK1- 8	B.P.F-20-0006	8.0	20.0	23.0	200	35.20
	HQG(L) ZK1- 10	B.P.F-20-0007	10.0	23.0	24.5	240	50.50
	HQG(L) ZK1- 16	B.P.F-20-0008	16.0	28.0	31.0	315	113.50
	HQG(L) ZK1- 20	B.P.F-20-0009	20.0	31.0	35.0	355	1162.20
Double Wheel hook polley	HQG(L) Z2- 1	B.P.F-20-0010	1.0	6.2	7.7	71	3.15
	HQG(L) Z2- 2	B.P.F-20-0011	2.0	7.7	11.0	85	6.00
	HQG(L) Z2- 3.2	B.P.F-20-0012	3.2	11.0	14.0	112	11.00
	HQG(L) Z2- 5	B.P.F-20-0013	5.0	12.5	15.5	132	20.00
	HQG(L) Z2- 8	B.P.F-20-0014	8.0	15.5	18.5	160	35.00
	HQG(L) Z2- 10	B.P.F-20-0015	10.0	17.0	20.0	200	47.00
	HQG(L) Z2- 16	B.P.F-20-0016	16.0	23.0	24.5	240	75.20
	HQG(L) Z2- 20	B.P.F-20-0017	20.0	26.0	28.0	280	138.90
Tried Wheel hook polley	HQG(L) Z3- 3.2	B.P.F-20-0018	3.2	7.7	11.0	85	8.20
	HQG(L) Z3- 5	B.P.F-20-0019	5.0	11.0	14.0	112	16.83
	HQG(L) Z3- 8	B.P.F-20-0020	8.0	12.5	15.5	132	18.00
	HQG(L) Z3- 10	B.P.F-20-0021	10.0	15.5	18.5	160	47.00
	HQG(L) Z3- 16	B.P.F-20-0022	16.0	17.0	20.0	190	49.79
	HQG(L) Z3- 20	B.P.F-20-0023	20.0	20.0	23.0	210	69.59
	HQD3-32	B.P.F-20-0024	32.0	26.0	28.0	280	187.8
HQD3-50	B.P.F-20-0025	50.0	31.0	35.0	355	360.00	



جکلو



جکلوئ ساده



RATCHET BINDER

Code کد	Min-Max Chain Size (in.)	Working Load limited (Lbs)	Proof load (Lbs)	Minimum Ultimate Load (Lbs)	Weight/ Each (Lbs)	Handle Length (Lbs)	Dimensions (in.)						
							A	B	C	D	E	F	G
B.P.F-21-0001	1/4-5/16	2600	5200	7800	3.52	11.42	18.5	17.3	14.17	11.42	8.27	8.07	0.35
B.P.F-21-0002	5/16-3/8	5400	10800	19000	8.37	15.43	25.2	23.2	19.49	15.55	11.22	11.22	0.51
B.P.F-21-0003	3/8-1/2	9200	18400	28000	12.11	17.24	28.5	26.38	22.05	17.64	12.99	12.20	0.59
B.P.F-21-0004	---	---	---	33000	12.20	17.24	28.5	26.38	22.05	17.64	12.99	12.20	0.59
B.P.F-21-0005	1/2-5/8	11000	22000	44000	19.7	21.00	33.86	30.12	25.87	20.87	14.37	14.37	0.74

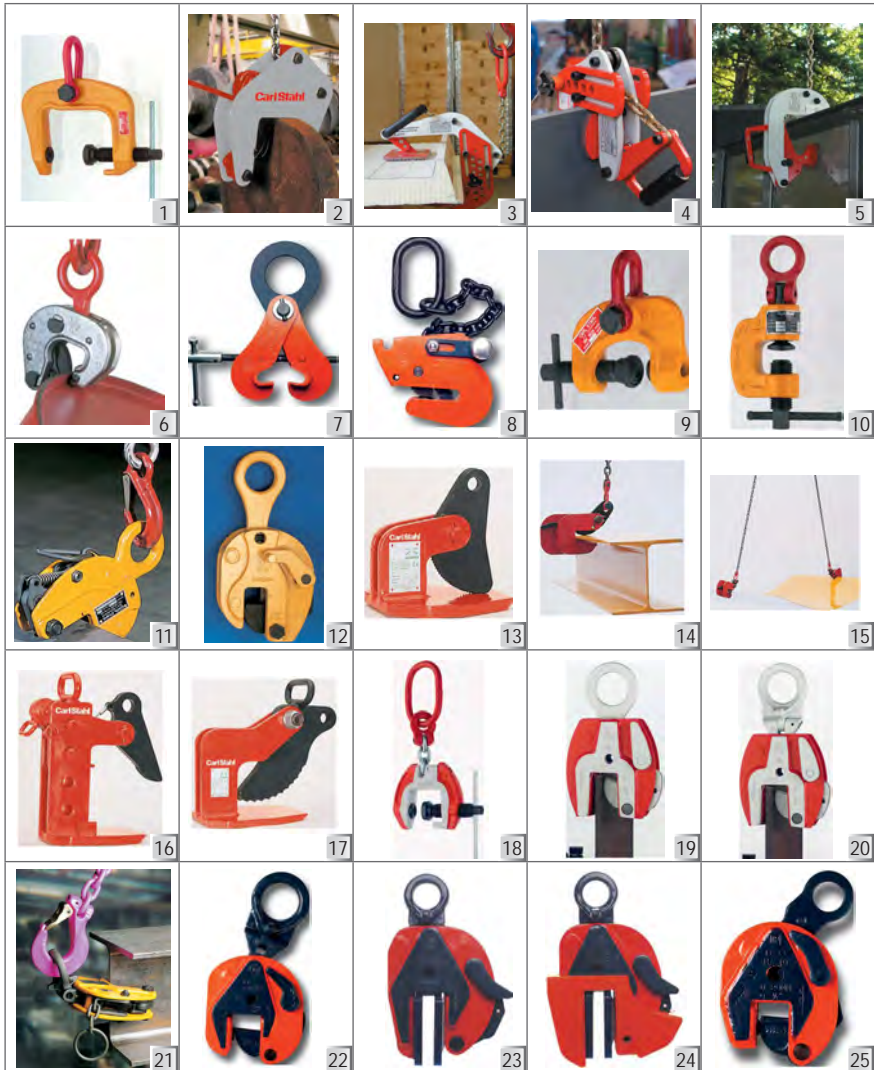
جکلوئ جفجغه ای



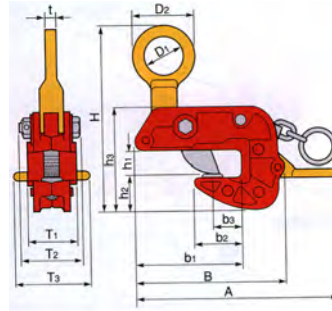
RATCHET BINDER & LESS LINKS AND HOOKS

Code کد	Min-Max Chain Size (in.)	Working Load limited (Lbs)	Proof load (Lbs)	Minimum Ultimate Load (Lbs)	Weight Each (Lbs)	Handle Length (Lbs)	Dimensions (in.)							
							A	B	C	E	EI	F	FI	G
B.P.F-22-0001	1/4-5/16	2600	5200	9200	3.52	7.16	7.16	0.89	1.77	16.22	21.26	17.79	22.83	0.35
B.P.F-22-0002	5/16-3/8	5400	10800	19000	10.50	13.42	13.9	1.30	2.60	22.64	30.64	25.24	33.24	0.51
B.P.F-22-0003	3/8-1/2	9200	18400	33000	12.90	13.92	13.9	1.30	2.60	24.13	32.13	27.04	35.04	0.59
B.P.F-22-0004	1/2-5/8	13000	26000	46000	14.38	13.92	13.9	1.30	2.60	26.45	34.45	30.07	38.07	0.74

ورق گیر

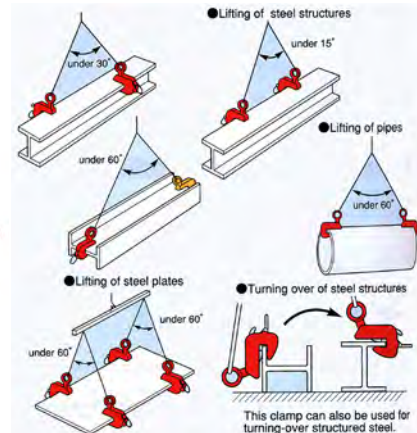


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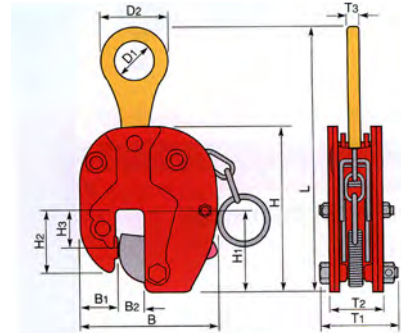


HORIZONTAL LIFTING CLAMP SPECIFICATIONS

Item No.	Rated capacity (TON)	Jaw opening	Code کد	H (max)	H1	H2	H3	A	B	D1	D2	t	Weight (kg)
HLC1HE	1	0~25	B.P.F-23-0001	208	27	38	115	229	173	40	65	12	3.0
HLC2HE	2	0~30	B.P.F-23-0002	246	32	48	140	273	203	50	80	16	5.5
HLC2WHE	2	0~40	B.P.F-23-0003	265	43	56	161	262	209	50	80	16	5.9
HLC3HE	3	0~35	B.P.F-23-0004	292	37	58	168	307	237	60	100	18	9.5
HLC4HE	4	0~40	B.P.F-23-0005	337	42	68	195	350	270	70	120	20	13.5
HLC4WHE	4	25~60	B.P.F-23-0006	379	65	77	229	360	303	70	120	20	19.0
HLC6HE	6	0~45	B.P.F-23-0007	385	47	81	222	380	312	80	140	22	23.0
HLC6WHE	6	25~65	B.P.F-23-0008	419	70	81	245	417	347	80	140	22	29.0
HLC8HE	8	10~70	B.P.F-23-0009	525	75	95	300	529	458	80	160	25	50.0
HLC8WHE	8	30~90	B.P.F-23-0010	552	95	95	320	529	458	80	160	25	52.0
HLC12HE	12	20~80	B.P.F-23-0011	573	85	100	335	553	482	80	160	32	70.0
HLC12WHE	12	40~100	B.P.F-23-0012	593	105	100	355	553	482	80	160	32	72.0

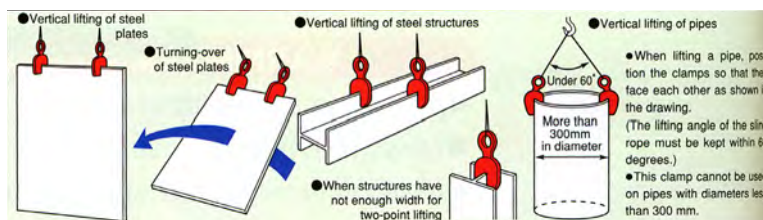


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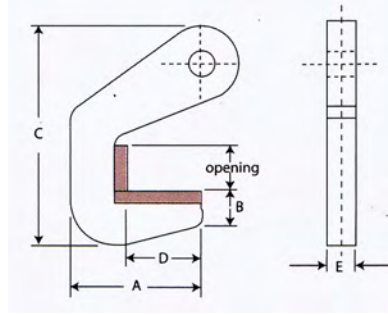


VERTICAL LIFTING CLAMP SPECIFICATIONS

Item No	Rated capacity (TON)	Jaw opening	Code کد	L (max)	H	B	B1	B2	D1	D2	T3	Weight (kg)
HLC1HE	1	0~19	B.P.F-24-0001	250	158	131	36	26	36	64	12	3.0
HLC2HE	2	0~25	B.P.F-24-0002	310	185	152	42	32	48	85	16	6.0
HLC2WHE	2	0~40	B.P.F-24-0003	360	225	165	43	44	48	85	16	6.2
HLC3HE	3	0~30	B.P.F-24-0004	375	210	172	48	39	60	106	18	10.5
HLC4HE	4	0~35	B.P.F-24-0005	405	225	182	51	42	66	117	20	12.5
HLC4WHE	4	25~60	B.P.F-24-0006	432	253	212	56	67	66	117	20	15.0
HLC6HE	6	0~40	B.P.F-24-0007	455	260	220	65	50	84	148	22	21.5
HLC6WHE	6	25~65	B.P.F-24-0008	485	285	245	65.5	74.5	84	148	22	25.0
HLC8HE	8	10~70	B.P.F-24-0009	615	402	340	105	75	60	120	25	44.0
HLC8WHE	8	30~90	B.P.F-24-0010	615	402	360	105	95	60	120	25	45.0
HLC12HE	12	20~80	B.P.F-24-0011	645	412	360	105	85	65	130	32	56.0
HLC12WHE	12	40~100	B.P.F-24-0012	645	412	380	105	105	65	130	32	60.0

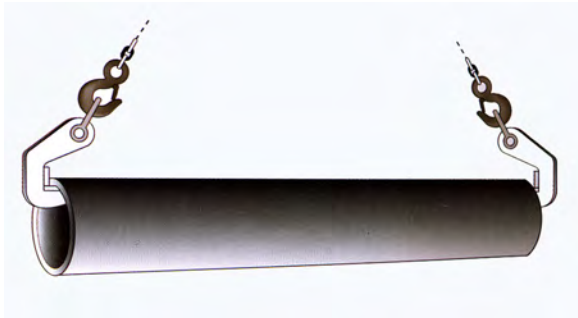


ورق گیر عایق دار



UP RIGHT TRANSFER SPECIFICATIONS

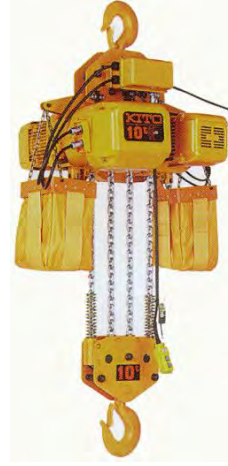
Type	Code کد	Capacity Per pair(kg)	Jaw opening(R) (mm)	Dimensions (mm)					Weight (kg/pc)
				A	B	C	D	E	
1.5TL-HPC	B.P.F-25-0001	1.500	40	120	32	195	75	35	2.2
TL-HPC 3	B.P.F-25-0002	3.000	40	120	32	195	75	35	2.5
TL-HPC 4	B.P.F-25-0003	4.000	50	120	32	205	75	40	3.0
TL-HPC 6	B.P.F-25-0004	6.000	50	120	32	205	75	40	3.3
TL-HPC 8	B.P.F-25-0005	8.000	70	120	32	205	75	40	4.5
TL-HPC 12	B.P.F-25-0006	12.000	70	140	32	275	70	45	9
TL-HPC 16	B.P.F-25-0007	16.000	70	145	32	280	75	56	11



بیم کلمپ

Load capacity In kg	Type	Grab range A in mm	Code کد	Dimensions (mm)						Weight In kg
				C	D	E	F	H	K	
2000	IPTK	75-190	B.P.F-26-0001	A+80	125	75	--	25	20	6
3000	IPTK	75-190	B.P.F-26-0002	A+80	125	75	--	25	20	6.5
4000	IPTK	150-280	B.P.F-26-0003	A+100	125	75	--	35	20	8.5
5000	IPTK	120-350	B.P.F-26-0004	A+195	125	75	--	43	20	11
2000	IPTK	75-190	B.P.F-26-0005	A+80	125	--	28	25	--	4
3000	IPTK	75-190	B.P.F-26-0006	A+80	125	--	28	25	--	4.5
4000	IPTK	150-280	B.P.F-26-0007	A+100	125	--	33	35	--	6.3
5000	IPTK	120-350	B.P.F-26-0008	A+195	125	--	33	43	--	8.8

جرثقیل برقی

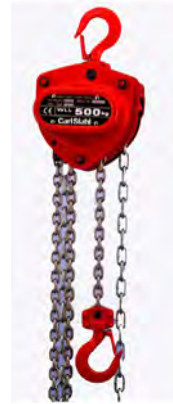
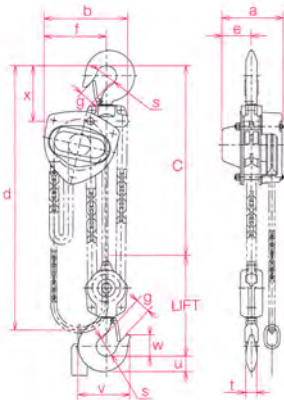


ELECTRIC CHAIN HOIST SPECIFICATIONS

Code کد	Capacity (Ton)	Construction Execution	Lifting Speed	Reeving Scheme	Lifting Height
B.P.F-25-0001	1/2	ER /ERM	S / SD	Wire Rope/Chain	6m/42m
B.P.F-25-0002	1	"	"	"	"
B.P.F-25-0003	1.6	"	"	"	"
B.P.F-25-0004	2.5	"	"	"	"
B.P.F-25-0005	3.2	"	"	"	"
B.P.F-25-0006	5	"	"	"	"
B.P.F-25-0007	6.3	"	"	"	"
B.P.F-25-0008	8	"	"	"	"
B.P.F-25-0009	10	"	"	"	"
B.P.F-25-0010	12.5	"	"	"	"
B.P.F-25-0011	16	"	"	"	"
B.P.F-25-0012	20	"	"	"	"
B.P.F-25-0013	25	"	"	"	"
B.P.F-25-0014	32	"	"	"	"



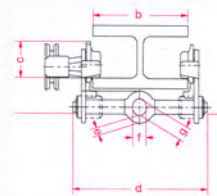
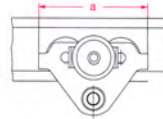
جرثقیل دستی



CHAIN BLOCK SPECIFICATIONS MODEL VP5

Capacity (t)	Code كد	Model Number	Standard Lift (m)	Net Weight (kg)	Gross Way (kg)	Pull To Lift Load		Head Room c	a	b	g	Test Load (t)
						(kg)	(N)					
1/2	B.P.F-26-0001	VP5-05	2.5	8.3	8.7	25	145	285	127	144	27	0.75
1	B.P.F-26-0002	VP5-10	2.5	11.3	11.8	33	324	315	147	157	30	1.5
1.1/2	B.P.F-26-0003	VP5-15	2.5	13.5	14.0	34	333	340	147	174	34	2.25
2	B.P.F-26-0004	VP5-20	3.0	21.0	22.2	34	333	380	179	204	37	3.0
3	B.P.F-26-0005	VP5-30	3.0	22.0	22.7	35	343	475	147	206	43	4.5
5	B.P.F-26-0006	VP5-50	3.0	40.0	41.5	39	382	600	179	263	47	6.3

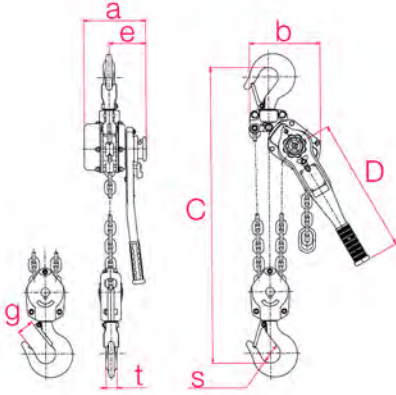
ریل جرثقیل



PLAIN TROLLEY SPECIFICATIONS MODEL AG

A G	B.P.F-27-0001	1	75	125	125	250	206	231	120	45	80	27	117	1300	14.0	AG-10
	B.P.F-27-0002	2	100	150	150	400	241	271	155	60	100	33	119	1500	23.5	AG-20
	B.P.F-27-0003	3	100	150	180	400	261	311	185	70	113	47	134	2000	33.5	AG-30
	B.P.F-27-0004	5	125	175	250	450	294	351	220	80	125	53	134	2600	53.5	AG-50
	B.P.F-27-0005	10	150	175	250	450	294	721	165	---	125	53	134	---	101.0	AG-90

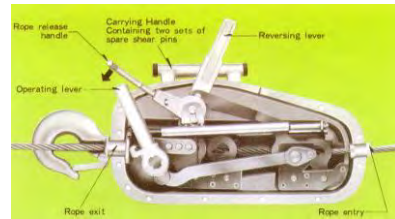
پولیف



LEVER BLOCK SPECIFICATIONS MODEL VR2

Code	B.P.F-28-0001	B.P.F-28-0002	B.P.F-28-0003	B.P.F-28-0004	B.P.F-28-0005	
Model Number	VR2-0.8	VR2-10	VR2-15	VR2-30	VR2-60	
Capacity (t)	3/4	1	1-1/2	3	6	
Standard Lift (m)	1.5	1.5	1.5	1.5	1.5	
Net Weight (kg)	6.9	7.1	9.7	16.3	26.7	
Minimu Distance Between Hooks (mm)	295	310	335	405	550	
Pull On Lever To Lift Full Load	(kg)	15	20	18	38	39
	(n)	147	196	177	373	382
Chain Thickness (mm)	6.3	6.3	7.1	9.0	9.0	
Dimensions	A (mm)	148	148	163	191	191
	B(mm)	128	128	148	181	244
	C (mm)	295	310	335	405	550
	D (mm)	256	256	368	368	368
	G(mm)	27	30	34	43	47

تیفور




WIRE ROPE WINCH (LEVER HOIST) SPECIFICATIONS MODEL HSS

Code	B.P.F-29-0001	B.P.F-29-0002	B.P.F-29-0003
Model No.	S-7	S-15	S-35
Lifting Capacity:	800 kg	1.600 kg	3.200 kg
Pulling Capacity:	1.250 kg	2.500 kg	5.000 kg
Test to:	1.500 kg	3.000 kg	6.000 kg
Length Of Handle:	790 mm	1.050 mm	1.210 mm
Steel Wire Rope:	IWRC 9mm Dia.	IWRC 12mm Dia.	IWRC 16mm Dia.
Net Weight (WithOut Wire Rope)	8 kg	22 kg	31.50 kg
External Dimension:	50*25*10cm	62*30*15cm	72*32*14cm
Material Casing:	SS41 (JIS)	SS41 (JIS)	AL casting
Transmission Speed Rate Per Minute:	3meters	3meters	3 meters
Breaking Strength Of Wire Rope:	5.430 kg	9.680 kg	17.200 kg
Safety Device:	Safety pins	Safety pins	Safety pins

تسمه حمل بار جهت جابجایی کالا در تناژ مختلف

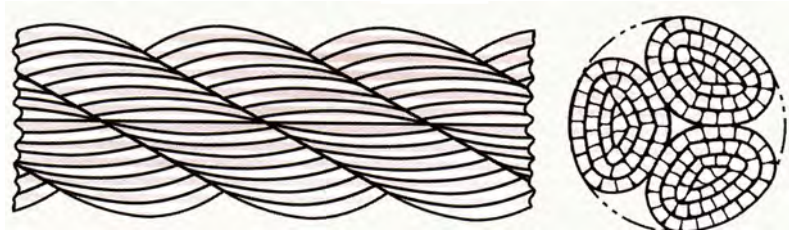


WEBBING SLING

Colour	Code کد					
		Straight lift WLL(kg)	Choked lift Wll(kg)	Basket lift WLL(kg)	Basket lift 45' WLL(kg)	Basket lift 90' WLL(kg)
Violet	B.P.F-30-0001	1.000	800	2.000	1.800	1.400
Green	B.P.F-30-0002	2.000	1.600	4.000	3.600	2.800
Yellow	B.P.F-30-0003	3.000	2.400	6.000	5.400	4.200
Grey	B.P.F-30-0004	4.000	3.200	8.000	7.200	5.600
Red	B.P.F-30-0005	5.000	4.000	10.000	9.000	7.000
Brown	B.P.F-30-0006	6.000	4.800	12.000	10.500	8.400
Blue	B.P.F-30-0007	8.000	6.400	16.000	14.400	11.200
Orange	B.P.F-30-0008	10.000	8.000	20.000	18.000	14.000
Orange	B.P.F-30-0009	15.000	12.000	30.000	27.000	21.000
Orange	B.P.F-30-0010	20.000	16.000	40.000	36.000	28.000
Orange	B.P.F-30-0011	25.000	20.000	50.000	45.000	35.000
Orange	B.P.F-30-0012	30.000	24.000	60.000	54.000	42.000
Orange	B.P.F-30-0013	35.000	28.000	70.000	63.000	49.000
Orange	B.P.F-30-0014	40.000	32.000	80.000	72.000	56.000
Orange	B.P.F-30-0015	45.000	36.000	90.000	81.000	63.000
Orange	B.P.F-30-0016	50.000	40.000	100.000	90.000	70.000



طناب های ۳ رشته ای پلی پروپیلین فیلم

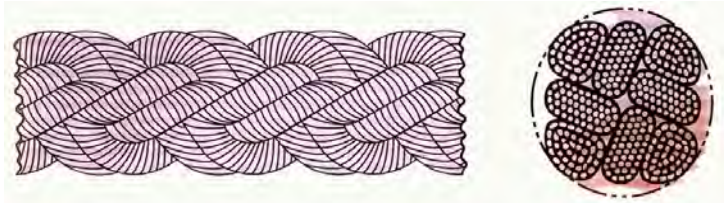


3 Strand Hawser –Laid Polypropylene Fibrillated Film Ropes

Diameter (mm)	Code کد	Weight (g/m)	Minimum Breaking Load (Kgf)	Minimum Breaking Load (Dn)	حد واداری
4	B.P.F-31-0001	8	280	275	+/- 10
6	B.P.F-31-0002	17	600	590	
8	B.P.F-31-0003	30	1060	1040	
10	B.P.F-31-0004	45	1560	1530	+/- 8
12	B.P.F-31-0005	65	2210	2170	
14	B.P.F-31-0006	90	3050	2990	+/- 5
16	B.P.F-31-0007	115	3770	3700	
18	B.P.F-31-0008	148	4810	4720	
20	B.P.F-31-0009	180	5800	5690	
22	B.P.F-31-0010	220	6950	6820	
24	B.P.F-31-0011	260	8130	7970	
26	B.P.F-31-0012	305	9400	9220	
28	B.P.F-31-0013	355	10710	10500	



طناب های ۸ رشته ای گیس بافت پلی پروپلین (PP)



8 Strand Plaited Polypropylene Ropes

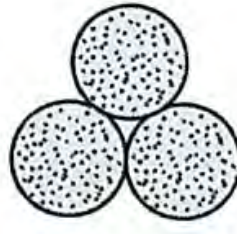
Diameter (mm)	Code کد	Circute (inch)	Weight (g/m)	Minimum Breaking Load (Kgf)	Minimum Breaking Load (Dn)	حد واداری
28	B.P.F-32-0001	3/5	355	10700	10500	+/- 5
32	B.P.F-32-0002	4	460	13455	13200	
36	B.P.F-32-0003	4/5	585	16920	16600	
40	B.P.F-32-0004	5	720	20490	20100	
44	B.P.F-32-0005	5/5	880	24565	24100	
48	B.P.F-32-0006	6	1040	28540	28000	
52	B.P.F-32-0007	6/5	1220	33030	32400	
56	B.P.F-32-0008	7	1420	37820	37100	
60	B.P.F-32-0009	7/5	1630	43220	42400	
64	B.P.F-32-0010	8	1850	48930	48000	
72	B.P.F-32-0011	9	2340	61470	60300	
80	B.P.F-32-0012	10	2900	75535	74100	
88	B.P.F-32-0013	11	3510	90620	88900	
96	B.P.F-32-0014	12	4170	107035	105000	
104	B.P.F-32-0015	13	4900	122325	120000	
112	B.P.F-32-0016	14	5700	141695	139000	
120	B.P.F-32-0017	15	6500	163100	160000	
128	B.P.F-32-0018	16	7400	183490	180000	



Fiber Rope

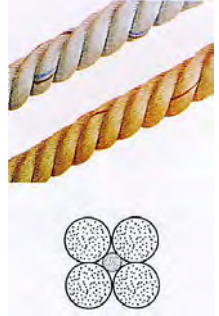


Construction: 3 & 4 Strand



Size: 3~120mm

طناب کنفی

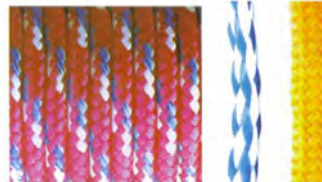


Braded Rope



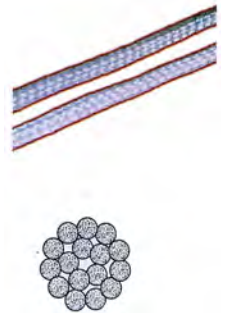
Construction: 8 & 16 Strand

PA & PP

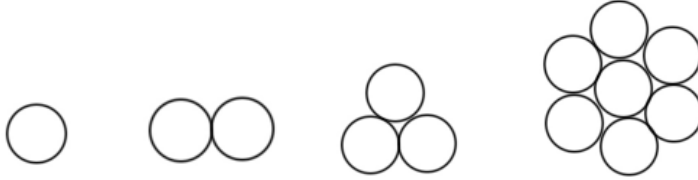


Size: 10~30mm

طناب بریدد



مفتول واسترنديپيش تنيده بتون



1-Strand

2-Strand

3-Strand

7-Strand

P.C.Wires & Strands (Low Relaxation)

نمونه استرند	قطراسمی		کد	سطح مقطع		وزن اسمی		نیروی گسیختگی		کمترین بار در % ۱ ازدیاد طول			
	in	mm		sqin	sqmm	1bf	Kgf	1bf	Kgf	LR		NR	
گرید 250KPsi یا 1725MPa	3/8	9,53	B.P.F-33-0001	0,08	51,61	272	405	20000	9070	18000	8160	17000	7710
	7/16	11,11	B.P.F-33-0002	0,108	69,68	367	548	27000	12240	24300	11010	23000	10430
	1/2	12,70	B.P.F-33-0003	0,144	92,90	490	730	36000	16320	32400	14700	30600	13880
گرید 270KPsi یا 1860MPa	0/6	15,24	B.P.F-33-0004	0,216	139,135	737	1094	54000	24490	48600	22050	45900	20820
	3/8	9,53	B.P.F-33-0005	0,085	54,84	290	432	23000	10430	20700	9390	19550	8870
	7/16	11,11	B.P.F-33-0006	0,115	74,19	390	582	31000	14060	27900	12650	26350	11950
	1/2	12,70	B.P.F-33-0007	0,153	98,71	520	775	41300	18730	37170	16860	35100	15910
	0,6	15,24	B.P.F-33-0008	0,217	140000	740	1102	58600	26580	52740	23920	49800	22580

