

WIRE ROPE

Wire rope slings are a basic material handling tool and are the most frequently used type of sling in industry today. They offer a strong, dependable and economical option for most lifting applications. Their popularity is enhanced by the numerous sling configurations available to support a broad range of applications. These configurations include single and multi-part slings, such as grommets, single leg slings, multiple leg bridles, and a wide variety of fittings and attachments.

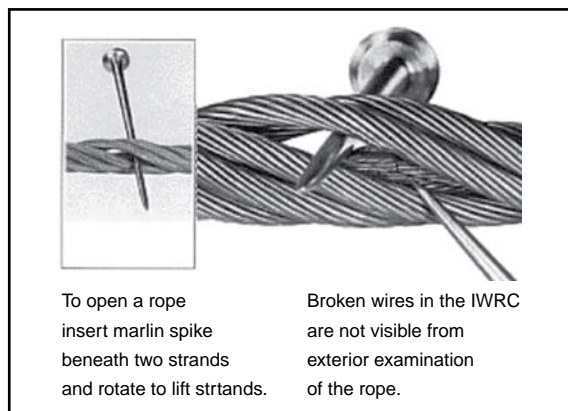
A mechanical splice sling (or hand splice flemish eye) is most frequently used and is fabricated by unlaying the rope body into two parts, one having three strands, the other having the remaining three strands and core. The rope is unlayed far enough back to allow the eye to be formed by looping one part in one direction and the other part in the opposite direction and laying the rope back together.

The strands are rolled back around the rope body and aluminium (or metal) sleeve is slipped over the ends and pressed (or swaged) to secure the ends to the sling body. A hydraulic swaging press with special dies is used to bond the sleeve in place. Extreme pressure forces the steel sleeve to flow into the voids between the wires and strands, creating an assembly that maintains most of the wire rope's nominal breaking strength.

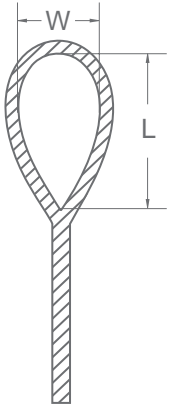
Single, Double, Triple Slings can be designed and fabricated within close tolerances to desired specifications. For safety purposes, it is essential that all fittings and attachments carry a rated capacity equal to or greater than that of the wire rope sling. In cases where this is not possible, the rated capacity of the entire assembly must be downgraded to the weakest component.

Eye & Eye Slings the LOOP of an eye & eye sling has nearly DOUBLE the strength of it's body. For this reason the D/d ratio in the LOOP is just half as critical as opposed to when the sling is used in BASKET hitch. In most cases the shackle or hook over which the sling is placed will have a sufficient D/d ratio.

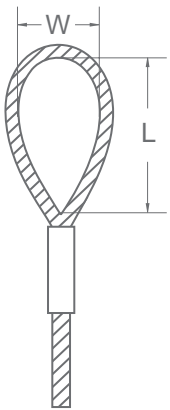
On the other hand, do not place too LARGE an object into the sling eye as this will result in splitting forces affecting the sling splice and sling safety. The object (a shackle, a crane hook, a steel bar) you place into the sling eye must not be larger than 1/2 of the sling eye length. When a sling is used in a BASKET- or CHOKER HITCH with D/d ratios smaller than listed in the capacity tables, the rated capacities (or WLL's) must be decreased.



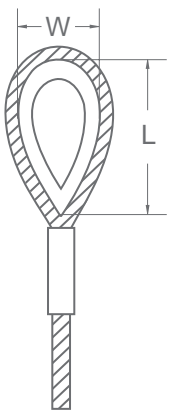
WIRE ROPE



Dimensions (mm) for Hand Splice (Flemish Eye)			
Rope Dia (mm)	Length x Width (mm)	Rope Dia (mm)	Length x Width (mm)
8	100 x 50	16	250 x 125
10	100 x 50	18	300 x 150
11	180 x 90	20	300 x 150
12	200 x 100	22	360 x 180
13	200 x 100	24	410 x 205
14	230 x 115	26	410 x 205



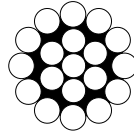
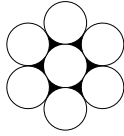
Dimensions (mm) for Eye Loop Splice			
Rope Dia (mm)	Length x Width (mm)	Rope Dia (mm)	Length x Width (mm)
8	100 x 50	16	250 x 125
10	100 x 50	18	300 x 150
11	180 x 90	20	300 x 150
12	200 x 100	22	360 x 180
13	200 x 100	24	410 x 205
14	230 x 115	26	410 x 205



Dimensions (mm) for Eye Loop Splice W/Thimble			
Rope Dia (mm)	W (mm)	L (mm)	H (mm)
8	24	38	10
10	28	45	12
11	28	45	12
12	30	48	13
13	32	51	14
14	36	58	16
16	38	61	17
18	45	72	20
20	50	80	22
22	56	90	24
24	62	99	26
26	70	112	28

WIRE ROPE

CONTROL CABLE



1 x 7 GALVANIZED

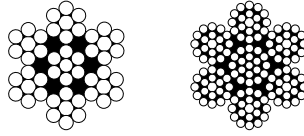
Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m		
0.60	0.18	0.40	41
0.80	0.32	0.71	72
1.00	0.50	1.08	110
1.20	0.74	1.52	155
1.40	1.01	2.06	210
1.50	1.15	2.35	240
1.60	1.42	2.65	270
1.80	1.63	3.33	340
2.00	2.05	4.12	420

1 x 19 GALVANIZED

Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m		
0.80	0.32	0.69	70
1.00	0.50	1.03	105
1.20	0.72	1.47	150
1.40	0.98	2.16	220
1.50	1.12	2.45	250
1.60	1.27	2.74	280
1.80	1.61	3.33	340
2.00	2.00	4.17	425
2.50	3.10	6.52	665
3.00	4.48	8.33	850
3.50	6.00	10.78	1100
4.00	7.90	13.72	1400
5.00	12.50	21.36	2180

WIRE ROPE

CONTROL CABLE



7 x 7 GALVANIZED

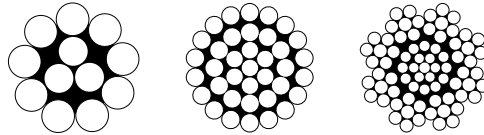
Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m	KN	KG
1.00	0.42	0.83	85
1.20	0.61	1.18	120
1.50	0.95	1.76	180
1.60	1.08	2.16	220
1.80	1.34	2.55	260
2.00	1.65	3.04	310
2.50	2.57	4.70	480
3.00	3.71	6.86	700
3.50	5.05	9.02	920
4.00	6.60	11.76	1200
5.00	10.00	18.33	1870

7 x 19 GALVANIZED

Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m	KN	KG
1.50	0.95	1.96	200
1.60	1.08	2.25	230
2.00	1.68	3.53	360
2.50	2.63	5.49	560
3.00	3.78	7.94	810
3.50	5.28	10.78	1100
4.00	6.71	12.50	1275
5.00	10.50	20.60	2100
6.00	15.20	28.90	2950

WIRE ROPE

CONTROL CABLE



1 x 12 GALVANIZED

Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m		
1.00	0.49	1.03	105
1.20	0.70	1.47	150
1.40	0.95	1.96	200
1.50	1.09	2.25	230
1.60	1.24	2.45	250
1.80	1.56	3.04	310

1 x 37 GALVANIZED

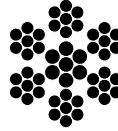
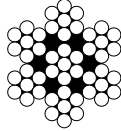
Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m		
2.50	3.05	5.68	580
3.00	4.39	8.13	830
3.50	5.99	11.07	1130
4.00	7.82	14.50	1480
4.80	11.30	20.87	2130
5.00	12.20	22.54	2300
6.00	17.60	32.63	3330

8 x 7+1 x 19 GALVANIZED

Nominal Diameter	Approx. Weight	Minimum Breaking Strength	
		KN	KG
mm	kg/100m		
1.50	0.95	1.96	200
1.80	1.34	2.74	280
2.00	1.65	3.43	350

WIRE ROPE

CONVEYOR BELT CORD



6x7+IWS GALVANIZED

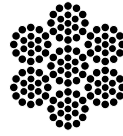
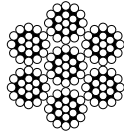
Nominal Diameter mm	Approx. Weight kg/100m	Minimum Breaking Strength (I)	
		KN	KG
2.00	1.70	3.70	375
2.60	2.70	6.10	620
2.80	3.10	7.00	715
3.00	3.40	7.50	765
3.20	4.20	9.40	960
3.50	5.00	11.20	1145
3.80	6.00	12.80	1305
4.00	6.40	13.60	1385
4.20	7.10	15.00	1530
4.50	8.40	17.90	1825
4.80	9.40	20.10	2050
5.10	10.50	22.10	2255
5.40	12.10	25.30	2580

K6x7+IWS GALVANIZED

Nominal Diameter (mm)	Approx. Weight (kg/100m)	Minimum Breaking Strength					
		(II)		(III)		(IV)	
		KN	KG	KN	KG	KN	KG
2.50	2.40	5.30	540	5.50	560	5.80	590
2.70	2.90	6.40	650	6.70	685	7.00	715
2.90	3.40	7.50	765	7.70	785	8.00	815
3.10	3.80	8.80	895	9.50	970	10.00	1020
3.30	4.40	10.30	1050	10.80	1100	11.40	1160
3.50	4.90	11.40	1160	12.00	1225	12.80	1305
3.70	5.50	12.70	1295	13.20	1345	14.20	1450
3.90	6.30	14.00	1430	14.80	1510	15.80	1610
4.10	6.80	15.30	1560	16.20	1650	17.40	1775
4.30	7.50	16.80	1715	17.80	1815	19.00	1940
4.50	8.10	18.20	1855	19.30	1970	20.70	2110
4.70	8.70	19.60	2000	20.80	2120	22.50	2295
4.90	9.50	21.50	2195	22.70	2315	24.10	2460
5.10	10.40	23.40	2385	24.20	2470	25.70	2620

WIRE ROPE

CONVEYOR BELT CORD



6x19+IWS GALVANIZED

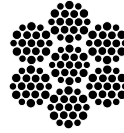
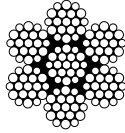
Nominal Diameter	Approx. Weight	Minimum Breaking Strength (I)	
		KN	KG
mm	kg/100m		
4.00	6.20	13.40	1365
4.30	7.40	16.00	1635
4.50	8.30	17.90	1825
4.80	9.50	20.40	2080
5.40	11.30	24.30	2480
5.70	12.60	27.10	2765
6.10	14.80	31.60	3225
6.40	16.30	33.50	3415
7.20	20.30	41.70	4255
7.50	22.00	45.30	4620

K6x19+IWS GALVANIZED

Nominal Diameter (mm)	Approx. Weight (kg/100m)	Minimum Breaking Strength					
		(II)		(III)		(IV)	
		KN	KG	KN	KG	KN	KG
4.50	7.80	18.20	1855	18.60	1895	19.30	1970
4.80	8.70	20.00	2040	20.70	2115	21.20	2165
5.00	9.80	22.50	2295	23.20	2365	23.90	2440
5.40	11.20	25.20	2570	26.05	2660	27.00	2755
5.80	13.20	29.60	3020	30.95	3160	31.60	3225
6.20	13.90	31.00	3160	32.30	3295	33.30	3395
6.40	14.80	33.00	3375	34.40	3510	35.70	3640
6.60	15.70	34.50	3520	36.20	3695	37.40	3815
6.80	18.00	39.30	4010	41.00	4185	42.70	4355
7.20	19.90	43.00	4390	45.00	4590	47.10	4805
7.60	22.50	48.80	4980	51.00	5205	53.00	5410

WIRE ROPE

CONVEYOR BELT CORD



6xW(19)+IWS GALVANIZED

Nominal Diameter	Approx. Weigh	Minimum Breaking Strength (I)			
		mm	kg/100m	KN	KG
5.00	10.60	24.40	2490	25.50	2600
5.60	13.70	30.00	3060	31.40	3205
6.00	15.90	34.30	3500	36.00	3675
6.60	18.90	40.50	4135	42.50	4335
7.00	21.20	45.60	4655	47.80	4875
7.60	25.30	53.60	5470	56.20	5735

K6xW(19)+IWS GALVANIZED

Nominal Diameter (mm)	Approx. Weight (kg/100m)	Minimum Breaking Strength					
		(II)		(III)		(IV)	
		KN	KG	KN	KG	KN	KG
5.00	10.30	23.00	2345	23.70	2415	24.50	2500
5.60	13.30	30.00	3060	30.80	3140	31.50	3215
6.00	14.90	33.20	3385	34.30	3500	34.80	3550
7.00	17.70	39.60	4040	41.20	4205	41.80	4265
7.20	19.90	44.70	4560	46.50	4745	47.00	4795
7.60	20.80	47.20	4815	49.10	5010	49.50	5050

We can provide the specific conveyor belt rope according to the customer's specifications of tensile strength and construction.

Tensile Strength Grade

Wire Diameter (mm)	Tensile Strength (Mpa)			
	(I)	(II)	(III)	(IV)
0.20~0.40	2160	2260	2360	2460
> 0.40~0.60	2060	2160	2260	2360
> 0.60~0.90	1960	2060	2160	2260