

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.

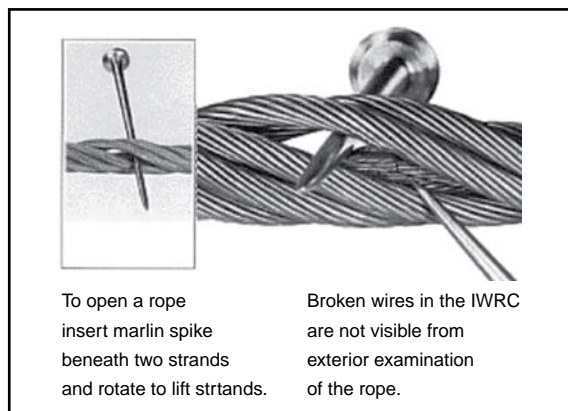
A mechanical splice sling (or hand splice flemish eye) is most frequently used and is fabricated by unlaying the rope body into two parts, one having three strands, the other having the remaining three strands and core. The rope is unlayed far enough back to allow the eye to be formed by looping one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

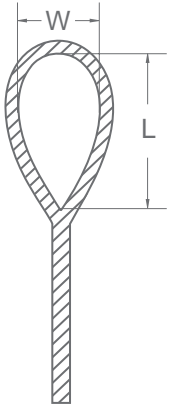
Single, Double, Triple Slings can be designed and fabricated within close tolerances to desired specifications. For safety purposes, it is essential that all fittings and attachments carry a rated capacity equal to or greater than that of the wire rope sling. In cases where this is not possible, the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

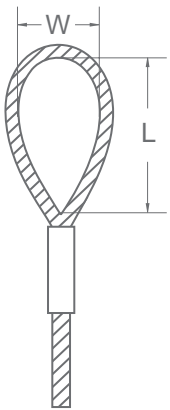
On the other hand, do not place too LARGE an object into the sling eye as this will result in splitting forces affecting the sling splice and sling safety. The object (a shackle, a crane hook, a steel bar) you place into the sling eye must not be larger than 1/2 of the sling eye length. When a sling 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.



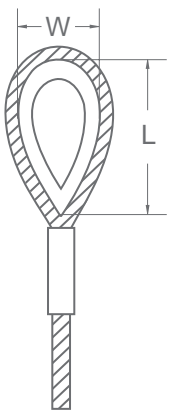
WIRE ROPE



| 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 |



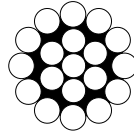
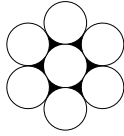
| Dimensions (mm) for Eye Loop Splice | | | |
|-------------------------------------|---------------------|---------------|---------------------|
| Rope Dia (mm) | Length x Width (mm) | Rope Dia (mm) | Length x Width (mm) |
| 8 | 100 x 50 | 16 | 250 x 125 |
| 10 | 100 x 50 | 18 | 300 x 150 |
| 11 | 180 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

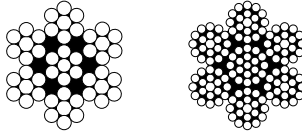
| Nominal Diameter | Approx. Weight | Minimum Breaking Strength | |
|------------------|----------------|---------------------------|-----|
| | | KN | KG |
| mm | kg/100m | | |
| 0.60 | 0.18 | 0.40 | 41 |
| 0.80 | 0.32 | 0.71 | 72 |
| 1.00 | 0.50 | 1.08 | 110 |
| 1.20 | 0.74 | 1.52 | 155 |
| 1.40 | 1.01 | 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

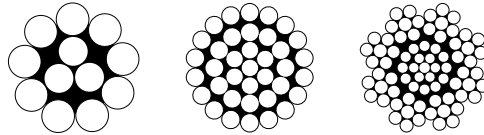
| Nominal Diameter | Approx. Weight | Minimum Breaking Strength | |
|------------------|----------------|---------------------------|------|
| | | KN | KG |
| mm | kg/100m | KN | KG |
| 1.00 | 0.42 | 0.83 | 85 |
| 1.20 | 0.61 | 1.18 | 120 |
| 1.50 | 0.95 | 1.76 | 180 |
| 1.60 | 1.08 | 2.16 | 220 |
| 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

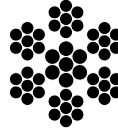
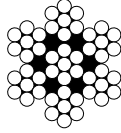
| Nominal Diameter | Approx. Weight | Minimum Breaking Strength | |
|------------------|----------------|---------------------------|------|
| | | KN | KG |
| mm | kg/100m | | |
| 2.50 | 3.05 | 5.68 | 580 |
| 3.00 | 4.39 | 8.13 | 830 |
| 3.50 | 5.99 | 11.07 | 1130 |
| 4.00 | 7.82 | 14.50 | 1480 |
| 4.80 | 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

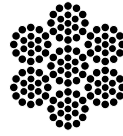
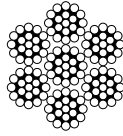
| Nominal Diameter mm | Approx. Weight kg/100m | Minimum Breaking Strength (I) | |
|------------------------|---------------------------|------------------------------------|------|
| | | KN | KG |
| 2.00 | 1.70 | 3.70 | 375 |
| 2.60 | 2.70 | 6.10 | 620 |
| 2.80 | 3.10 | 7.00 | 715 |
| 3.00 | 3.40 | 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

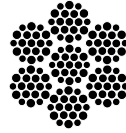
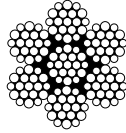
| Nominal Diameter | Approx. Weight | Minimum Breaking Strength (I) | |
|------------------|----------------|---------------------------------|------|
| | | KN | KG |
| mm | kg/100m | | |
| 4.00 | 6.20 | 13.40 | 1365 |
| 4.30 | 7.40 | 16.00 | 1635 |
| 4.50 | 8.30 | 17.90 | 1825 |
| 4.80 | 9.50 | 20.40 | 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 |