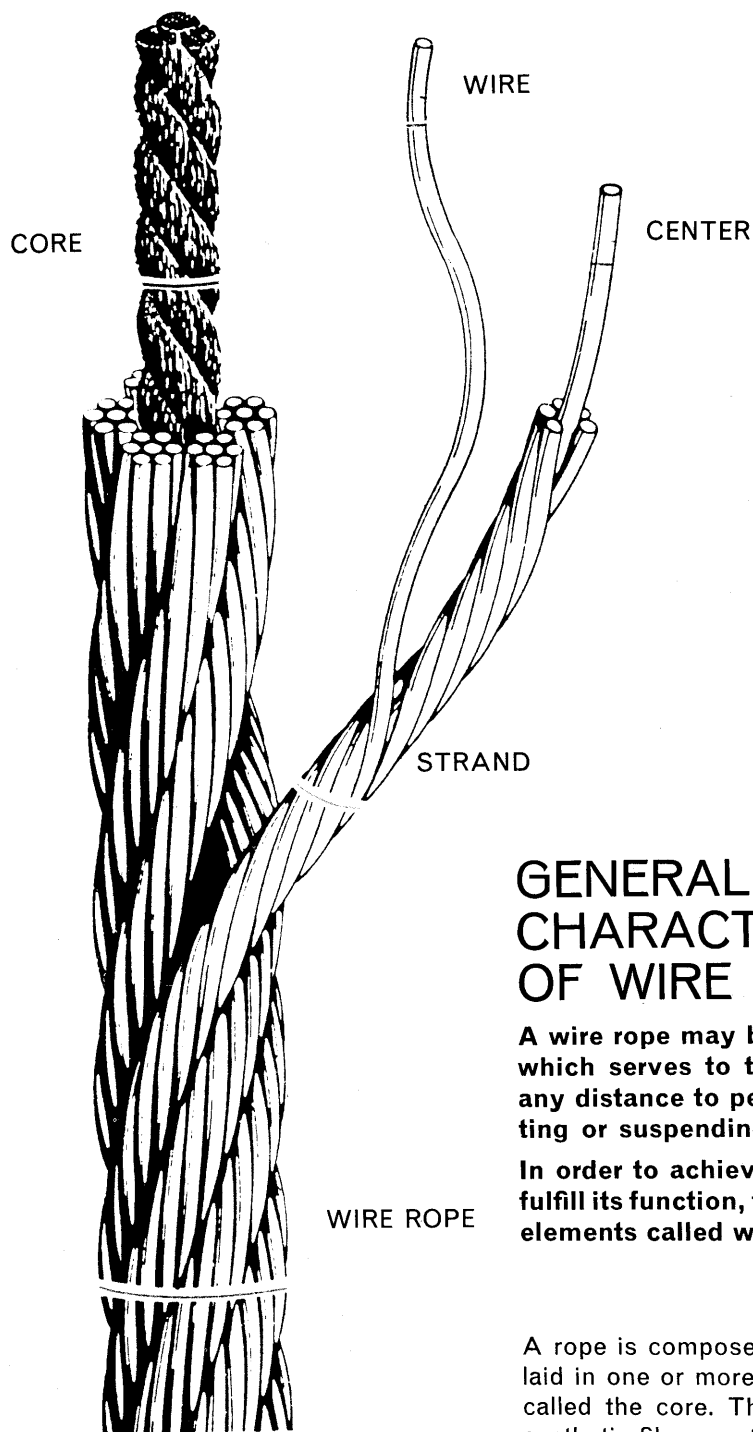




The component parts of a wire rope

GENERAL CHARACTERISTICS OF WIRE ROPES

A wire rope may be defined as a flexible organ which serves to transmit a pulling force over any distance to perform either a hauling, hoisting or suspending work.

In order to achieve the necessary flexibility to fulfill its function, the rope is made up of various elements called wires and strands.

A rope is composed of a given number of strands laid in one or more layers around an axial member called the core. The core can be made of hemp, synthetic fibre or steel.

Each strand is made up of a given number of wires laid helically in one or more layers around a central wire or textile fibre called the "center".



SELECTION TABLES

OILFIELD

ROD AND TUBING LINES

6 × 25 FW + FC (or IWRC)	Regular Lay
6 × 26 WS + FC (or IWRC)	
6 × 31 FW + FC (or IWRC)	
18 × 7 FC Non-rotating	

ROD HANGER LINES

6 × 19 S + FC	Regular Lay
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SAND LINES

6 × 7 + FC	Regular Lay
------------	-------------

DRILLING LINES - CABLE TOOLS

6 × 21 FW + FC	Regular Lay
6 × 19 S + FC	

CASING LINES - CABLE TOOLS

6 × 25 FW + FC (or IWRC)	Regular Lay
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DRILLING LINES - CORING AND SLIM HOLE ROTARY RIGS

6 × 19 S + IWRC	Regular Lay
6 × 25 FW + IWRC	

DRILLING LINES - LARGE ROTARY RIGS

6 × 19 S + IWRC	Regular Lay
6 × 21 FW + IWRC	

WINCH LINES

6 × 21 FW + IWRC	Regular Lay
6 × 31 FW + IWRC	
6 × 36 WS + IWRC	

HORSEHEAD PUMPING - UNIT LINES

6 × 37 Cross Lay + IWRC	Regular Lay
18 × 7 + IWRC	
8 × 19 S + IWRC	

OFFSHORE ANCHORAGE LINES

6 × 19 S + IWRC	Regular Lay
6 × 37 Cross Lay + IWRC	
6 × 41 WS + IWRC	
6 × 47 WS + IWRC	
6 × 36 WS + IWRC	
6 × 41 FW + IWRC	

MAST RAISING LINES

6 × 25 FW + IWRC	Regular Lay
6 × 37 Cross Lay + IWRC	

TORPEDO LINES

5 × 5 + FC
5 × 7 + FC

LOGGING

SLACK LINE SYSTEMS

SKY LINE OR SLACK LINE

6 × 25 FW + IWRC	Regular Lay
------------------	-------------

MAIN LINE

6 × 19 S + IWRC	Regular Lay
6 × 26 WS + IWRC	

HAULBACK OR STRAW LINE

6 × 19 S + IWRC	Regular Lay
6 × 26 WS + IWRC	

CHOKER

6 × 25 FW + IWRC	Regular Lay
6 × 31 FW + IWRC	

ARCH LOGGINGS

ARCH LINE

6 × 31 FW + IWRC	Regular Lay
------------------	-------------

CHOKER

6 × 25 FW + IWRC	Regular Lay
6 × 31 FW + IWRC	

BOOM LOADINGS

BOOM LINE

6 × 25 FW + IWRC	Regular Lay
------------------	-------------

LOADING LINE

6 × 25 FW + IWRC	Regular Lay
6 × 26 WS + IWRC	

SWING LINE

6 × 25 FW + IWRC	Regular Lay
6 × 26 WS + IWRC	

TONG LINE

6 × 25 FW + IWRC	Regular Lay
6 × 26 WS + IWRC	

COUNTER WEIGHT LINE

6 × 25 FW + IWRC	Regular Lay
6 × 26 WS + IWRC	

GUY LINE

6 × 19 S + IWRC	Regular Lay
-----------------	-------------

CHOKER

6 × 25 FW + IWRC	Regular Lay
6 × 31 FW + IWRC	



SELECTION TABLES

MINING

SHAFTS

HOIST ROPES

6 × 19 S + FC	Regular or Lang Lay
6 × 25 FW + FC	
6 × 26 WS + FC	
6 × 36 WS + FC	
17 × 7 + FC (or IWRC) Non-rotating.	

GUIDE ROPES

Locked coil rope.

INCLINES AND SLOPES

HAULAGE ROPES

6 × 7 + FC	Regular or Lang Lay
6 × 19 S + FC	
6 × 25 FW + FC	

SLUSHERS

SLUSHERS ROPES

6 × 19 S + IWRC	Regular Lay
3 × 19 S	

DRAGLINES

DRAG HOIST ROPES

6 × 25 FW + IWRC	Lang Lay
6 × 41 FW + IWRC	
6 × 47 WS + IWRC	
6 × 49 SWS + IWRC	

DRAG ROPES

6 × 25 FW + IWRC	Lang Lay
6 × 41 FW + IWRC	
6 × 47 WS + IWRC	

BOOM HOIST ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
6 × 41 FW + IWRC	

BUCKET DUMP ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
------------------	---------------------

BACKHOES

DIGGING ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
6 × 26 WS + IWRC	

BOOM HOIST ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
6 × 26 WS + IWRC	

TOPPING ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
------------------	---------------------

WAGON SCRAPERS

6 × 25 FW + IWRC	Regular or Lang Lay
------------------	---------------------

DERRICKS

HOIST ROPES

6 × 25 FW + FC	Regular Lay
6 × 26 WS + FC	
6 × 41 FW + FC	
17 × 7 + FC Non-rotating	

BOOM HOIST ROPES

6 × 25 FW + IWRC	Regular or Lang Lay
------------------	---------------------

SWING ROPES

6 × 41 FW + FC	Regular Lay
6 × 25 FW + FC	

DRAG SCRAPERS

HAUL BACK ROPES

6 × 19 S + IWRC	Regular or Lang Lay
6 × 25 FW + IWRC	

PULL IN ROPE OR LOAD ROPES

6 × 19 S + IWRC	Regular or Lang Lay
6 × 25 FW + IWRC	

SHOVELS

HOIST ROPES

6 × 25 FW + IWRC	Lang Lay
6 × 36 WS + IWRC	
6 × 41 FW + IWRC	
6 × 49 SWS + IWRC	

CROWD AND RETRACT ROPES

6 × 25 FW + IWRC	Lang Lay
6 × 41 FW + IWRC	
6 × 49 SWS + IWRC	

BOOM HOIST ROPES

6 × 25 FW + IWRC	Lang Lay or Reg. Lay
------------------	----------------------

TRIP ROPES

6 × 19 S + IWRC	Lang Lay or Reg. Lay
6 × 25 FW + FC	

CLAMSHELLS

HOLDING AND CLOSING ROPES

6 × 25 FW + IWRC	Lang Lay or Reg. Lay
6 × 36 WS + IWRC	

BOOM HOIST ROPES

6 × 25 FW + IWRC	Lang Lay or Reg. Lay
------------------	----------------------

TAG ROPES

6 × 25 FW + IWRC	Lang Lay or Reg. Lay
6 × 36 WS + IWRC	



SELECTION TABLES

INDUSTRIAL

BLAST FURNACES

SKIP HOIST AND BELL ROPES

6 × 25 FW + IWRC	Regular and Lang Lay
6 × 26 WS + IWRC	

HOT METAL AND LADLE CRANES

MAIN HOIST ROPES

6 × 26 WS + IWRC	Regular Lay
6 × 36 WS + IWRC	
8 × 36 WS + IWRC	

STRIPPER CRANES

HOIST ROPES

6 × 26 WS + IWRC	Regular Lay
6 × 36 WS + IWRC	
8 × 36 WS + IWRC	

SOAKING PIT CRANES

MAIN HOIST ROPES

6 × 26 WS + IWRC	Regular Lay
6 × 36 WS + IWRC	
8 × 36 WS + IWRC	

OVERHEAD TRAVELING CRANES

MAIN HOIST ROPE AND AUXILIARY HOIST ROPES

6 × 19 Cross Lay + FC	Regular Lay
6 × 19 S + FC	
6 × 26 WS + FC	
6 × 36 WS + FC	
6 × 37 Cross Lay + FC	
17 × 7 + FC Non-rotating	

MARINE

STANDING RIGGINGS

STAYS AND SHROUDS

6 × 7 + FC (or SWR)	Regular Lay
6 × 19 S + FC (or SWR)	

RUNNING RIGGINGS

RUNNER

6 × 19 + FC	Regular Lay
6 × 37 + FC	
6 × 36 WS + FC	
6 × 26 WS + FC	

TOPPING LIFT

6 × 24 + 7 FC	Regular Lay
6 × 30 + 7 FC	

MOORING ROPES

6 × 37 + FC	Regular Lay
6 × 24 + 7 FC	

HAWSERS

6 × 24 + 7 FC	Regular Lay
6 × 30 + 7 FC	

SLIPWAYS

6 × 36 WS + IWRC	Regular or Lang Lay
6 × 41 WS + IWRC	
6 × 41 FW + IWRC	

AIRCRAFT

AIRCRAFT CABLES

1 × 7	Regular Lay
1 × 19	
7 × 7 Cross Lay	
7 × 19 Cross Lay	



SELECTION TABLES

TRANSPORTATION

AERIAL PASSENGER TRAMWAYS

BI-CABLE

TRACK ROPES

Locked coil ropes

HAULAGE ROPES

$6 \times 7 + FC$		Lang Lay
$6 \times 19 S + FC$		

FREIGHT TRAMWAYS

BI-CABLE

TRACK ROPES

Locked coil ropes

HAULAGE ROPES

$6 \times 7 + FC$		Lang Lay
$6 \times 19 \text{ Cross Lay} + FC$		
$6 \times 19 S + FC$		

MONOCABLE

MONOCABLE ROPES

$6 \times 19 S + FC$	Lang Lay
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CHAIR LIFTS AND SKI LIFTS

MONOCABLE ROPES

$6 \times 7 + FC$		Lang Lay
$6 \times 17 S + FC$		
$6 \times 19 S + FC$		
$6 \times 25 FW + FC$		

SUSPENSION BRIDGES

Strand 1 $\times$ 37
Strand 1 $\times$ 61
Strand 1 $\times$ 127
Locked coil rope

HOISTING

HARBOUR CRANES

SINGLE PART

$17 \times 7 + FC$ Non-rotating
 $17 \times 19 S + FC$ Non-rotating
 $34 \times 7 + FC$ (or IWRC) Non-rotating

MULTI PART

$6 \times 26 WS + FC$		Regular Lay
$6 \times 36 WS + FC$		
$8 \times 36 WS + (5 \times 7 \times 1)$		

TOWER CRANES

$17 \times 7 + FC$ Non-rotating
 $17 \times 17 S + FC$ Non-rotating
 $17 \times 19 S + FC$ Non-rotating
 $34 \times 7 + FC$ Non-rotating

ELEVATORS

SUSPENSION AND ANCILLARY ROPES

$6 \times 19 \text{ Cross Lay} + FC$		Regular Lay
$6 \times 19 S + FC$		
$6 \times 19 W + FC$		
$6 \times 26 WS + FC$		
$8 \times 19 S + FC$		
$8 \times 19 W + FC$		

FISHING

TRAWLERS

TRAWLING ROPES

$6 \times 19 \text{ Cross Lay} + FC$		Regular Lay
$6 \times 19 S + FC$		
$6 \times 7 S + FC$		
$6 \times 26 WS + FC$		
S.156		

S.156 is the trade-mark for the fishing rope we have specially designed for trawling purposes.

Its main features are:

1. The raw material out of which these ropes are made is carefully selected and the wires are submitted to the most severe mechanical and chemical tests.
2. All the wires belong to our EXTRA GALVANIZED CLASS.

PURSE SEINERS

PURSE SEINING

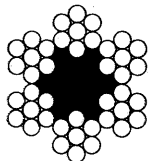
$6 \times 24 + 7 FC$	Regular Lay
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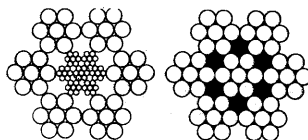
W.J. KEATING LIMITED

6×7 CLASSIFICATION ROPES

6 X 7 (1 + 6) + FC

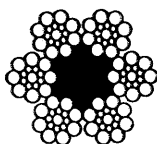


**6 X 7 (1 + 6) + IWRC
WSC**

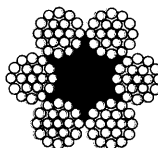


6×19 CLASSIFICATION ROPES

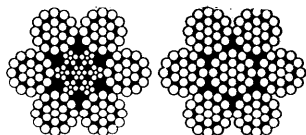
6 X 17 (1 + 8 + 8) SEALE + FC



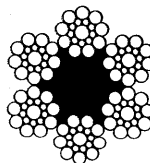
6 X 19 (1 + 6 + 12) CROSS LAY + FC



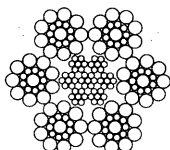
**6 X 19 (1 + 6 + 12) CROSS LAY + IWRC
WSC**



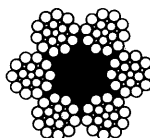
6 X 19 (1 + 9 + 9) SEALE + FC



6 X 19 (1 + 9 + 9) SEALE + IWRC



6 X 21 (1 + 5.5 + 10) FILLER WIRE + FC

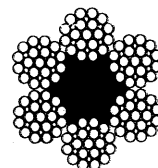
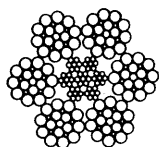




W.J. KEATING LIMITED

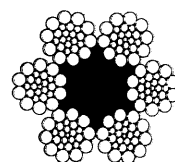
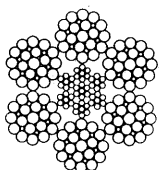
6X19 CLASSIFICATION ROPES

6 X 21 (1 + 5.5 + 10) FILLER WIRE + IWRC **6 X 25** (1 + 6.6 + 12) FILLER WIRE + FC

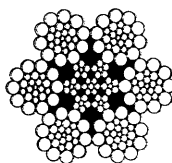


6 X 25 (1 + 6.6 + 12)
FILLER WIRE + IWRC

6 X 26 (1 + 5 + 5.5 + 10)
WARRINGTON SEALE + FC



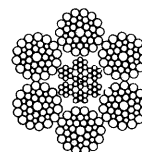
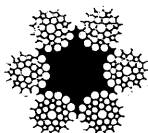
6 X 26 (1 + 5 + 5.5 + 10) WARRINGTON SEALE + IWRC



6X37 CLASSIFICATION ROPES

6 X 36 (1 + 7 + 7.7 + 14)
WARRINGTON SEALE + FC

6 X 36 (1 + 7 + 7.7 + 14)
WARRINGTON SEALE + IWRC

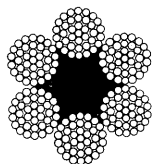




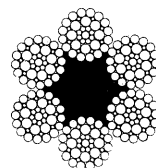
W.J. KEATING LIMITED

6 X 37 CLASSIFICATION ROPES

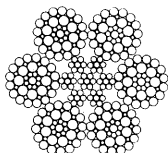
6 X 37 (1 + 6 + 12 + 18)
CROSS LAY + FC



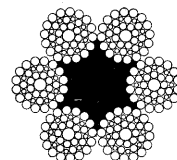
6 X 41 (1 + 8 + 8.8 + 16)
FILLER WIRE + FC



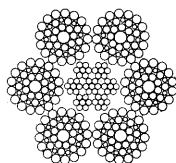
6 X 41 (1 + 8 + 8.8 + 16)
FILLER WIRE + IWRC



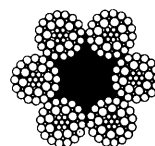
6 X 41 (1 + 8 + 8.8 + 16)
WARRINGTON SEALE + FC



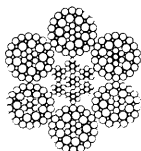
6 X 41 (1 + 8 + 8.8 + 16)
WARRINGTON SEALE + IWRC



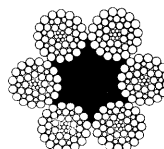
6 X 43 (1 + 6 + 9.9 + 18)
FILLER WIRE + FC



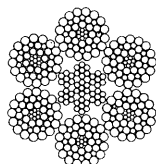
6 X 43 (1 + 6 + 9.9 + 18)
FILLER WIRE + IWRC



6 X 47 (1 + 6 + 8 + 8.8 + 16)
WARRINGTON SEALE + FC



6 X 47 (1 + 6 + 8 + 8.8 + 16)
WARRINGTON SEALE + IWRC

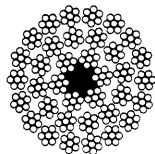




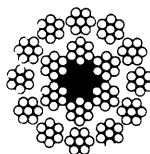
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NON-ROTATING WIRE ROPES

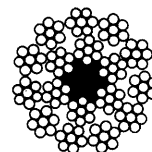
36 x 7 (1 + 6) + FC



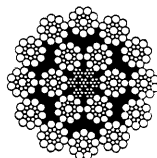
18 x 7 (1 + 6) + FC



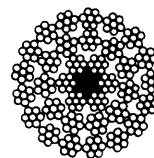
17 x 7 (1 + 6) + FC



18 x 19 (1 + 9 + 9) SEALE + IWRC

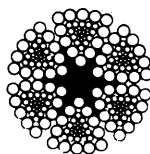


34 x 7 (1 + 6) + FC



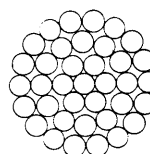
TRIANGULAR STRAND ROPES

6 x 25 (Δ + 12 + 12) + FC



SPIROIDAL ROPES

37 (1 + 6 + 12 + 18) WIRES

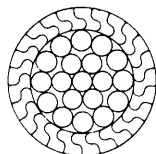




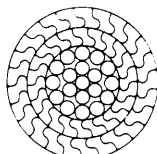
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LOCKED COIL ROPES

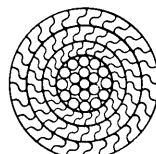
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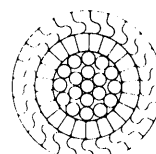
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Type — OZZZ

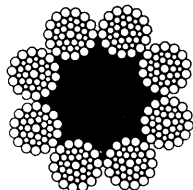
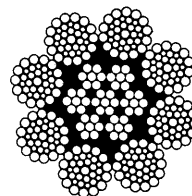


Type — OVZ



SPECIAL ROPES

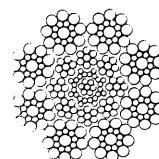
8 x 36 WARRINGTON SEALE + IWRC



8 x 36 (1 + 7 + 7.7 + 14) WARRINGTON SEALE + FC

DIEPA-SEALE WIRE ROPES

8 x 19 (1 + 9 + 9) + 8 x 7 (1 + 6) + 8 x 3 + 1 x 7 (1 + 6)



FLAT ROPES

6 x 4 x 19 (1 + 9 + 9) SEALE + FC



8 x 4 x 19 (1 + 9 + 9) SEALE + FC





NOMINAL STRENGTHS OF WIRE ROPE

6 x 7 Classification/Bright (Uncoated), Fiber Core

Nominal Diameter		Approximate Mass		Nominal Strength*	
inches	mm	lb/ft	kg/m	Improved Plow Steel**	
				tons	metric tonnes
1/4	6.4	0.09	0.14	2.64	2.4
5/16	8	0.15	0.22	4.10	3.72
3/8	9.5	0.21	0.31	5.86	5.32
7/16	11.5	0.29	0.43	7.93	7.2
1/2	13	0.38	0.57	10.3	9.35
9/16	14.5	0.48	0.71	13.0	11.8
5/8	16	0.59	0.88	15.9	14.4
3/4	19	0.84	1.25	22.7	20.6
7/8	22	1.15	1.71	30.7	27.9
1	26	1.50	2.23	39.7	36.0
1 1/8	29	1.90	2.83	49.8	45.2
1 1/4	32	2.34	3.48	61.0	55.3
1 3/8	35	2.82	4.23	73.1	66.3
1 1/2	38	3.38	5.03	86.2	78.2

6 x 7 Classification/Bright (Uncoated), IWRC

Nominal Diameter		Approximate Mass		Nominal Strength*	
inches	mm	lb/ft	kg/m	Improved Plow Steel**	
				tons	metric tonnes
1/4	6.4	0.10	0.15	2.84	2.58
5/16	8	0.16	0.24	4.41	4.0
3/8	9.5	0.23	0.34	6.30	5.72
7/16	11.5	0.32	0.48	8.52	7.73
1/2	13	0.42	0.63	11.1	10.1
9/16	14.5	0.53	0.79	14.0	12.7
5/8	16	0.65	0.97	17.1	15.5
3/4	19	0.92	1.37	24.4	22.1
7/8	22	1.27	1.89	33.0	29.9
1	26	1.65	2.46	42.7	38.7
1 1/8	29	2.09	3.11	53.5	48.5
1 1/4	32	2.57	3.82	65.6	59.5
1 3/8	35	3.12	4.64	78.6	71.3
1 1/2	38	3.72	5.54	92.7	84.1

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896; 1 lb=4.448 newtons (N).

**Available with galvanized wires at strengths 10% lower than listed, or at equivalent strengths on special request.



NOMINAL STRENGTHS OF WIRE ROPE

6 x 19 Classification/Bright (Uncoated), Fiber Core

Nominal Diameter		Approximate Mass		Nominal Strength*	
inches	mm	lb/ft	kg/m	Improved Plow Steel**	
				tons	metric tonnes
1/4	6.4	0.11	0.16	2.74	2.49
5/16	8	0.16	0.24	4.26	3.86
3/8	9.5	0.24	0.35	6.10	5.53
7/16	11.5	0.32	0.48	8.27	7.50
1/2	13	0.42	0.63	10.7	9.71
5/8	14.5	0.53	0.79	13.5	12.2
3/4	16	0.66	0.98	16.7	15.1
7/8	19	0.95	1.41	23.8	21.6
1	22	1.29	1.92	32.2	29.2
1 1/8	26	1.68	2.5	41.8	37.9
1 1/4	29	2.13	3.17	52.6	47.7
1 1/2	32	2.63	3.91	64.6	58.6
1 3/8	35	3.18	4.73	77.7	70.5
1 1/2	38	3.78	5.63	92.0	83.5
1 5/8	42	4.44	6.61	107	97.1
1 3/4	45	5.15	7.66	124	112
1 7/8	48	5.91	8.8	141	128
2	52	6.72	10.0	160	145
2 1/8	54	7.59	11.3	179	162
2 1/4	57	8.51	12.7	200	181
2 3/8	60	9.48	14.1	222	201
2 1/2	64	10.5	15.6	244	221
2 5/8	67	11.6	17.3	268	243
2 3/4	70	12.7	18.9	292	265

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896;

1 lb = 4.448 newtons (N).

**Available with galvanized wires at strengths 10% lower than listed, or at equivalent strengths on special request.



NOMINAL STRENGTHS OF WIRE ROPE

6 x 19 Classification/Bright (Uncoated), IWRC

Nominal Diameter		Approximate Mass		Nominal Strength*			
				Improved Plow Steel**		Extra Imp. Plow Steel**	
inches	mm	lb/ft	kg/m	tons	metric tonnes	tons	metric tonnes
1/4	6.4	0.12	0.17	2.94	2.67	3.40	3.08
5/16	8	0.18	0.27	4.58	4.16	5.27	4.78
3/8	9.5	0.26	0.39	6.56	5.95	7.55	6.85
7/16	11.5	0.35	0.52	8.89	8.07	10.2	9.25
1/2	13	0.46	0.68	11.5	10.4	13.3	12.1
9/16	14.5	0.59	0.88	14.5	13.2	16.8	15.2
5/8	16	0.72	1.07	17.7	16.2	20.6	18.7
3/4	19	1.04	1.55	25.6	23.2	29.4	26.7
7/8	22	1.42	2.11	34.6	31.4	39.8	36.1
1	26	1.85	2.75	44.9	40.7	51.7	46.9
1 1/8	29	2.34	3.48	56.5	51.3	65.0	59.0
1 1/4	32	2.89	4.30	69.4	63.0	79.9	72.5
1 3/8	35	3.5	5.21	83.5	75.7	96.0	87.1
1 1/2	38	4.16	6.19	98.9	89.7	114	103
1 5/8	42	4.88	7.26	115	104	132	120
1 3/4	45	5.67	8.44	133	121	153	139
1 7/8	48	6.5	9.67	152	138	174	158
2	52	7.39	11.0	172	156	198	180
2 1/8	54	8.35	12.4	192	174	221	200
2 1/4	57	9.36	13.9	215	195	247	224
2 3/8	60	10.4	15.5	239	217	274	249
2 1/2	64	11.6	17.3	262	238	302	274
2 5/8	67	12.8	19.0	288	261	331	300
2 3/4	70	14.0	20.8	314	285	361	327

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896;
1 lb = 4.448 newtons (N).

**Available with galvanized wires at strengths 10% lower than listed, or at equivalent strengths on special request.



NOMINAL STRENGTHS OF WIRE ROPE

6 x 37 Classification/Bright (Uncoated), Fiber Core

Nominal Diameter		Approximate Mass		Nominal Strength*	
				Improved Plow Steel**	
inches	mm	lb/ft	kg/m	tons	metric tonnes
1/4	6.4	0.11	0.16	2.74	2.49
5/16	8	0.16	0.24	4.26	3.86
3/8	9.5	0.24	0.35	6.10	5.53
7/16	11.5	0.32	0.48	8.27	7.50
1/2	13	0.42	0.63	10.7	9.71
9/16	14.5	0.53	0.79	13.5	12.2
5/8	16	0.66	0.98	16.7	15.1
3/4	19	0.95	1.41	23.8	21.6
7/8	22	1.29	1.92	32.2	29.2
1	26	1.68	2.50	41.8	37.9
1 1/8	29	2.13	3.17	52.6	47.7
1 1/4	32	2.63	3.91	64.6	58.6
1 3/8	35	3.18	4.73	77.7	70.5
1 1/2	38	3.78	5.63	92.0	83.5
1 5/8	42	4.44	6.61	107	97.1
1 3/4	45	5.15	7.66	124	112
1 7/8	48	5.91	8.8	141	128
2	52	6.72	10.0	160	145
2 1/8	54	7.59	11.3	179	162
2 1/4	57	8.51	12.7	200	181
2 3/8	60	9.48	14.1	222	201
2 1/2	64	10.5	15.6	244	221
2 5/8	67	11.6	17.3	268	243
2 3/4	70	12.7	18.9	292	265
2 7/8	74	13.9	20.7	317	287
3	77	15.1	22.5	344	312
3 1/8	80	16.4	24.4	371	336
3 1/4	83	17.7	26.3	399	362

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896; 1 lb = 4.448 newtons (N).

**Available with galvanized wires at strengths 10% lower than listed, or at equivalent strengths on special request.

Note: For four of the listed diameters, 1/4" through 7/16" with two-operation strands, the given nominal strengths will be reduced by approximately 5 1/2%.



NOMINAL STRENGTHS OF WIRE ROPE

6 x 37 Classification/Bright (Uncoated), IWRC

Nominal Diameter		Approximate Mass		Nominal Strength*			
				Improved Plow Steel**		Extra Imp. Plow Steel**	
				tons	metric tonnes	tons	metric tonnes
1/4	6.4	0.12	0.17	2.94	2.67	3.4	3.08
5/16	8	0.18	0.27	4.58	4.16	5.27	4.78
3/8	9.5	0.26	0.39	6.56	5.95	7.55	6.85
7/16	11.5	0.35	0.52	8.89	8.07	10.2	9.25
1/2	13	0.46	0.68	11.5	10.4	13.3	12.1
9/16	14.5	0.59	0.88	14.5	13.2	16.8	15.2
5/8	16	0.72	1.07	17.9	16.2	20.6	18.7
3/4	19	1.04	1.55	25.6	23.2	29.4	26.7
7/8	22	1.42	2.11	34.6	31.4	39.5	36.1
1	26	1.85	2.75	44.9	40.7	51.7	46.9
1 1/8	29	2.34	3.48	56.5	51.3	65.0	59.0
1 1/4	32	2.89	4.30	69.4	63.0	79.9	72.5
1 3/8	35	3.50	5.21	83.5	75.7	96.0	87.1
1 1/2	38	4.16	6.19	98.9	89.7	114	103
1 5/8	42	4.88	7.26	115	104	132	120
1 3/4	45	5.67	8.44	133	121	153	139
1 7/8	48	6.5	9.67	152	138	174	158
2	52	7.39	11.0	172	156	198	180
2 1/8	54	8.35	12.4	192	174	221	200
2 1/4	57	9.36	13.9	215	195	247	224
2 3/8	60	10.4	15.5	239	217	274	249
2 1/2	64	11.6	17.3	262	238	302	274
2 5/8	67	12.8	19.0	288	261	331	300
2 3/4	70	14.0	20.8	314	285	361	327
2 7/8	74	15.3	22.8	341	309	392	356
3	77	16.6	24.7	370	336	425	386
3 1/8	80	18.0	26.8	399	362	458	415
3 1/4	83	19.5	29.0	429	389	492	446
3 3/8	86	21.0	31.3	459	416	529	480
3 1/2	90	22.7	33.8	491	445	564	512
3 5/8	96	24.3	36.2	523	458	602	528
3 3/4	103	26.0	38.7	557	505	641	581

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896; 1 lb = 4.448 newtons (N).

**Available with galvanized wires at strengths 10% lower than listed, or at equivalent strengths on special request.

Note: For four of the listed diameters, 1/4" through 7/16" with two-operation strands, the given nominal strengths will be reduced by approximately 5 1/2%.



NOMINAL STRENGTHS OF WIRE ROPE

6 x 61 Classification/Bright (Uncoated), IWRC

Nominal Diameter				Nominal Strength*			
				Improved Plow Steel		Extra Imp. Plow Steel	
				tons	metric tonnes	tons	metric tonnes
inches	mm	lb/ft	kg/m				
1	26	1.85	2.75	42.8	38.8	49.1	44.5
1 1/8	29	2.34	3.48	53.9	48.9	61.9	56.2
1 1/4	32	2.89	4.30	66.1	60.0	76.1	69.0
1 3/8	35	3.50	6.59	79.7	72.3	91.7	83.2
1 1/2	38	4.16	6.19	94.5	85.7	109	98.9
1 5/8	42	4.88	7.62	111	101	127	115
1 3/4	45	5.67	8.44	128	116	146	132
1 7/8	48	6.50	9.67	146	132	168	152
2	52	7.39	11.0	165	150	190	172
2 1/8	54	8.35	12.4	186	169	214	194
2 1/4	57	9.36	13.9	207	188	239	217
2 3/8	60	10.40	15.5	230	209	264	240
2 1/2	64	11.6	17.3	254	230	292	265
2 5/8	67	12.8	18.3	279	253	321	291
2 3/4	70	14.	20.8	305	277	350	318
2 7/8	74	15.3	22.8	333	302	382	347
3	77	16.6	24.7	360	327	414	376
3 1/4	83	19.5	29.0	419	380	483	438
3 3/8	86	21.0	31.3	451	409	518	470
3 1/2	90	22.7	33.8	483	438	555	503
3 3/4	96	26.0	38.7	549	498	632	573
4	103	29.6	44.1	620	562	713	647
4 1/4	109	33.3	49.6	694	630	799	725
4 1/2	115	37.4	55.7	772	700	888	806
4 3/4	122	41.7	62.1	853	774	981	890
5	128	46.2	68.8	937	850	1078	978

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896;
1 lb = 4.448 newtons (N).



NOMINAL STRENGTHS OF WIRE ROPE

6 x 91 Classification/Bright (Uncoated), IWRC

Nominal Diameter				Nominal Strength*			
				Improved Plow Steel		Extra Imp. Plow Steel	
				tons	metric tonnes	tons	metric tonnes
inches	mm	lb/ft	kg/m				
2	52	7.39	11.0	157	142	181	164
2 1/8	54	8.35	12.4	176	160	203	184
2 1/4	57	9.36	14.0	197	179	227	206
2 3/8	60	10.4	15.5	218	198	251	228
2 1/2	64	11.6	17.3	242	220	277	251
2 5/8	67	12.8	19.0	265	240	305	277
2 3/4	70	14.0	20.8	290	263	333	302
3	77	16.6	24.7	342	310	393	357
3 1/4	83	19.5	29.0	399	362	458	415
3 1/2	90	22.7	33.8	458	415	527	478
3 3/4	96	26.0	38.7	522	474	600	544
4	103	29.6	44.1	589	534	677	614
4 1/4	109	33.3	49.6	660	599	759	689
4 1/2	115	37.4	55.7	734	666	844	766
4 3/4	122	41.7	62.1	810	787	932	846
5	128	46.2	68.7	891	808	1024	929
5 1/4	134	49.8	74.1	974	884	1120	1016
5 1/2	140	54.5	81.1	1060	962	1219	1106
5 3/4	146	59.6	88.7	1148	1041	1320	1198
6	153	65.0	96.7	1240	1125	1426	1294

*To convert to Kilonewtons (kN), multiply tons (nominal strength) by 8.896;
1 lb = 4.448 newtons (N).



CANADIAN STANDARDS

WEIGHT AND BREAKING LOAD OF 6 x 19 CLASSIFICATION
ROUND STRAND ROPE

DIAMETER		WEIGHT				NOMINAL BREAKING LOAD			
		Fibre Core		IWRC		Grade 110/120 Improved Plow			
Inches	mm	LBS/FOOT	KG/m	LBS/FOOT	KG/m	Fibre Core		IWRC	
						Tons 2000 Lbs.	Tonnes (metric)	Tons 2000 Lbs.	Tonnes (metric)
3/16	4.8	0.06	.09	0.066	.10	1.4	1.27	1.6	1.5
1/4	6.4	.10	.15	.110	.16	2.7	2.4	2.9	2.6
5/16	7.9	.16	.24	.176	.26	4.1	3.7	4.4	4.0
3/8	9.5	.23	.34	.25	.37	6.0	5.4	6.4	5.8
7/16	11.1	.31	.46	.34	.51	8.0	7.2	8.6	7.8
1/2	12.7	.40	.60	.44	.66	10.6	9.62	11.2	10.16
9/16	14.3	.51	.76	.56	.83	13.3	12.0	14.3	13.0
5/8	15.9	.63	.94	.69	1.03	16.5	15.0	17.7	16.0
3/4	19.0	.90	1.34	.99	1.47	23.0	20.87	25.5	23.1
7/8	22.2	1.23	1.84	1.35	2.00	32.0	29.0	34.4	31.2
1	25.4	1.60	2.40	1.76	2.60	41.7	37.8	44.8	40.6
1-1/8	28.6	2.03	3.00	2.23	3.32	53.0	48.1	56.9	51.6
1-1/4	31.8	2.50	3.72	2.75	4.10	65.5	59.4	70.4	63.8
1-3/8	34.9	3.03	4.50	3.33	4.95	81.0	73.5	87.0	79.0
1-1/2	38.1	3.60	5.40	3.96	5.90	96.0	87.0	103.2	93.6
1-5/8	41.3	4.23	6.30	4.65	6.92	113.	103.	121.4	110.
1-3/4	44.5	4.90	7.30	5.39	8.02	130.	118.	139.7	127.
1-7/8	47.6	5.63	8.38	6.19	9.20	152.	138.	163.4	148.
2	50.8	6.40	9.52	7.04	10.50	169.	153	181.6	165.
2-1/4	57.2	8.10	12.05	8.91	13.30	210.	191.	225.7	205.
2-1/2	63.5	10.00	15.00	11.00	16.40	260.	236.	279.5	254.
2-3/4	70.0	12.10	18.00	13.31	19.80	305.	277.	327.8	297.

Breaking loads shown are subject to a minus tolerance of 5%

Weights and breaking loads shown are in accordance with Standard Number G4 of the Canadian Standards Association.

WEIGHT AND BREAKING LOAD OF
6 x 37 CLASSIFICATION ROUND STRAND ROPE

DIAMETER		WEIGHT				NOMINAL BREAKING LOAD			
		Fibre Core		Steel Core		Grade 110/120 Improved Plow			
Inches	mm	LBS/FOOT	KG/m	LBS/FOOT	KG/m	Fibre Core		Steel Core	
						Tons 2000 Lbs.	Tonnes (metric)	Tons 2000 Lbs.	Tonnes (metric)
1/4	6.4	0.10	.15	0.110	.16	2.4	2.18	2.6	2.36
5/16	7.9	.16	.24	.176	.26	4.0	3.63	4.3	3.90
3/8	9.5	.22	.33	.242	.36	5.5	5.0	5.9	5.40
7/16	11.1	.30	.45	.33	.49	7.5	6.8	8.0	7.26
1/2	12.7	.39	.58	.43	.64	10.0	9.1	10.7	9.70
9/16	14.3	.49	.73	.54	.80	12.5	11.3	13.4	12.16
5/8	15.9	.61	.90	.67	1.00	15.6	14.15	16.6	15.06
3/4	19.0	.87	1.29	.96	1.43	22.4	20.32	23.8	21.60
7/8	22.2	1.19	1.77	1.31	1.95	30.2	27.4	32.4	29.40
1	25.4	1.55	2.30	1.70	2.53	39.5	35.8	42.4	38.5
1-1/8	29.6	1.96	2.90	2.16	3.22	49.0	44.5	52.6	47.7
1-1/4	31.8	2.42	3.60	2.66	3.96	61.0	55.3	65.5	59.4
1-3/8	34.9	2.93	4.36	3.22	4.80	74.5	67.6	80.0	72.6
1-1/2	38.1	3.49	5.20	3.84	5.70	90.0	81.6	96.7	87.7
1-5/8	41.3	4.09	6.08	4.50	6.70	105.5	95.7	113.4	103.
1-3/4	44.5	4.75	7.07	5.23	7.78	121.0	110.	130.0	118.
1-7/8	47.6	5.45	8.10	6.00	8.93	142.0	129.	152.6	138.
2	50.8	6.20	9.22	6.82	10.15	155.0	141.	166.6	151.
2-1/4	57.2	7.85	11.68	8.64	12.86	201.0	182.	216.0	196.
2-1/2	63.5	9.69	14.42	10.7	15.92	245.0	222.	263.3	239.
2-3/4	70.0	11.72	17.44	12.9	19.20	293.0	266.	315.0	286.
3	76.2	15.20	22.2	16.72	24.95	346.0	314.	378.	342.
3-1/4	82.5	18.80	27.9	20.35	30.08	403.0	369.	450.	407.
3-1/2	113.6	21.00	31.3	23.03	37.7	464.0	420.	521.	472.

Breaking loads shown are subject to a minus tolerance of 5%

Weights and breaking loads shown are in accordance with Standard Number G4 of the Canadian Standards Association.



TABLE OF EQUIVALENT GRADES

North American denomination	British denomination	European denomination
UNGALVANIZED: (= Uncoated = bright)		
Mild Plow 200.000/220.000 lbs. sq. inch.	Special Improved Patent = 89/101 long tons/sq. inch.	140/159 kgf/mm ² = (89/101 long tons/sq. inch.)
Plow 220.000/240.000 lbs. sq. inch.	Best Plough = 100/110 long tons/sq. inch.	160/179 kgf/mm ² = (102/114 long tons/sq. inch.)
Improved Plow 240.000/280.000 lbs. sq. inch.	Special Improved Plough = 110/120 long tons/sq. inch.	180/199 kgf/mm ² = (115/126 long tons/sq. inch.)
Extra Improved Plow 280.000/310.000 lbs. sq. inch.	Extra Special Impr. Plough = 120/130 long tons/sq. inch.	200/219 kgf/mm ² = (127/139 long tons/sq. inch.)
GALVANIZED:		
Plow 200.000/220.000 lbs. sq. inch.	Special Improved Patent = 89/101 long tons/sq. inch.	140/159 kgf/mm ² = (89/101 long tons/sq. inch.)
Improved Plow 220.000/240.000 lbs. sq. inch.	Best Plough = 100/110 long tons/sq. inch.	160/179 kgf/mm ² = (100/110 long tons/sq. inch.)
DRAWN-GALVANIZED:		
Mild Plow 200.000/220.000 lbs. sq. inch.	Special Improved Patent = 89/101 long tons/sq. inch.	140/159 kgf/mm ² = (89/101 long tons/sq. inch.)
Plow 220.000/240.000 lbs. sq. inch.	Best Plough = 100/110 long tons/sq. inch.	160/179 kgf/mm ² = (102/114 long tons/sq. inch.)
Improved Plow 240.000/280.000 lbs. sq. inch.	Special Improved Plough = 110/120 long tons/sq. inch.	180/199 kgf/mm ² = (115/126 long tons/sq. inch.)
Extra Improved Plow 280.000/310.000 lbs. sq. inch.	Extra Special Impr. Plough = 120/130 long tons/sq. inch.	200/219 kgf/mm ² = (127/139 long tons/sq. inch.)



TABLE OF RECOMMENDED RATIOS OF DRUM OR SHEAVE DIAMETER TO ROPE DIAMETER

D = Tread Diameter of Sheave
d = Nominal Diameter of Rope

Wire rope construction	140/155 Kg/mm ²	155/170 Kg/mm ²	170/185 Kg/mm ²
I. Ropes of cross lay construction	D/d	D/d	D/d
6 × 7 (1 + 6) + 1	40	43	48
6 × 19 (1 + 6 + 12) + 1	28	30	33
6 × 37 (1 + 6 + 12 + 18) + 1	20	22	24
6 × 61 (1 + 6 + 12 + 18 + 24) + 1	17	18	20
8 × 19 (1 + 6 + 12) + 1	23	25	28
18 × 7 (1 + 6) + 1	34	37	41
36 × 7 (1 + 6) + 1	27	29	32
Wire rope construction	140/155 Kg/mm ²	155/170 Kg/mm ²	170/185 Kg/mm ²
II. Ropes of equal lay construction	D/d	D/d	D/d
6 × 19 (1 + 9 + 9) S + 1	30	34	37
8 × 19 (1 + 9 + 9) S × 1	25	27	30
6 × 26 (1 + 5 + 5.5 + 10) W-S + 1	26	28	30
6 × 36 (1 + 7 + 7.7 + 14) W-S + 1	23	25	28
6 × 41 (1 + 8 + 8.8 + 16) W-S + 1	18	20	22
6 × 19 (1 + 6 + 6.6) W + 1	28	30	33
6 × 21 (1 + 5.5 + 10) F-W + 1	28	30	33
6 × 25 (1 + 6.6 + 12) F-W + 1	24	26	29
6 × 41 (1 + 8 + 8.8 + 16) F-W + 1	20	22	24
8 × 25 (1 + 6.6 + 12) F-W + 1	20	22	24



MINIMUM SHEAVE-AND DRUM-GROOVE DIMENSIONS*

Nominal Rope Diameter		Groove Radius			
		New		Worn	
1 inches	2 mm	3 inches	4 mm	5 inches	6 mm
1/4	6.4	.135	3.43	.129	3.28
5/16	8.0	.167	4.24	.160	4.06
3/8	9.5	.201	5.11	.190	4.83
7/16	11	.234	5.94	.220	5.59
1/2	13	.271	6.88	.256	6.50
9/16	14.5	.303	7.70	.288	7.32
5/8	16	.334	8.48	.320	8.13
3/4	19	.401	10.19	.380	9.65
7/8	22	.468	11.89	.440	11.18
1	26	.543	13.79	.513	13.03
1 1/8	29	.605	15.37	.577	14.66
1 1/4	32	.669	16.99	.639	16.23
1 3/8	35	.736	18.69	.699	17.75
1 1/2	38	.803	20.40	.759	19.28
1 5/8	42	.876	22.25	.833	21.16
1 3/4	45	.939	23.85	.897	22.78
1 7/8	48	1.003	25.48	.959	24.36
2	52	1.085	27.56	1.025	26.04
2 1/8	54	1.137	28.88	1.079	27.41
2 1/4	58	1.210	30.73	1.153	29.29
2 3/8	60	1.271	32.28	1.199	30.45
2 1/2	64	1.338	33.99	1.279	32.49
2 5/8	67	1.404	35.66	1.339	34.01
2 3/4	71	1.481	37.62	1.409	35.79
2 7/8	74	1.544	39.22	1.473	37.41
3	77	1.607	40.82	1.538	39.07
3 1/8	80	1.664	42.27	1.598	40.59
3 1/4	83	1.731	43.97	1.658	42.11
3 3/8	87	1.807	45.90	1.730	43.94
3 1/2	90	1.869	47.47	1.794	45.57
3 3/4	96	1.997	50.72	1.918	48.72
4	103	2.139	54.33	2.050	52.07
4 1/4	109	2.264	57.51	2.178	55.32
4 1/2	115	2.396	60.86	2.298	58.37
4 3/4	122	2.534	64.36	2.434	61.82
5	128	2.663	67.64	2.557	64.95
5 1/4	135	2.804	71.22	2.691	68.35
5 1/2	141	2.929	74.40	2.817	71.55
5 3/4	148	3.074	78.08	2.947	74.85
6	154	3.198	81.23	3.075	78.11

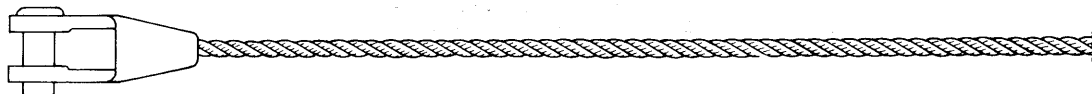
* Values given are applicable to grooves in sheaves and drums; they are not generally suitable for pitch design since this may involve other factors.

Further, the dimensions do not apply to traction-type elevators; in this circumstance, drum-and sheave-groove tolerances should conform to the elevator manufacturer's specifications.

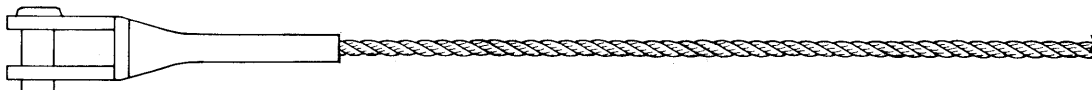
Modern drum design embraces extensive considerations beyond the scope of this publication. It should also be noted that drum grooves are now produced with a number of oversize dimensions and pitches applicable to certain service requirements.



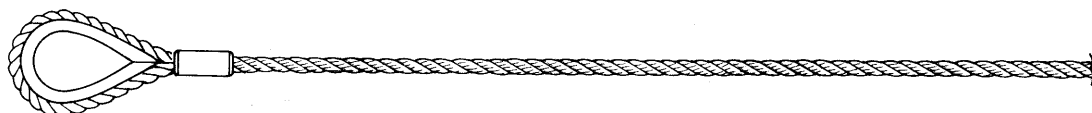
END TERMINATIONS



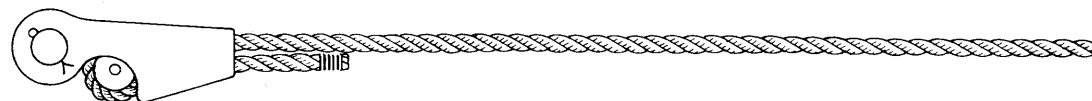
WIRE ROPE SOCKET - POURED SPELTER OR RESIN



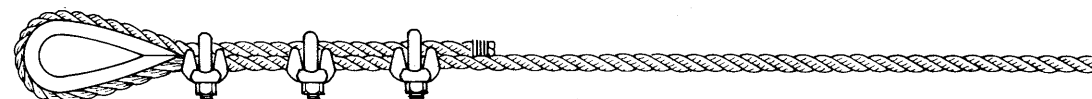
WIRE ROPE SOCKET - SWAGED



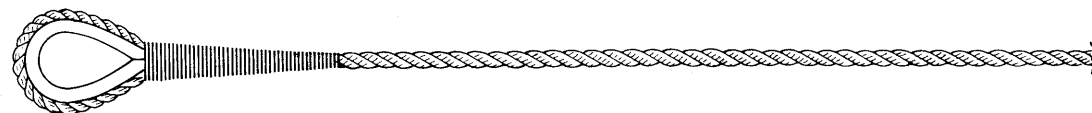
MECHANICAL SPLICE - LOOP OR THIMBLE



WEDGE SOCKET

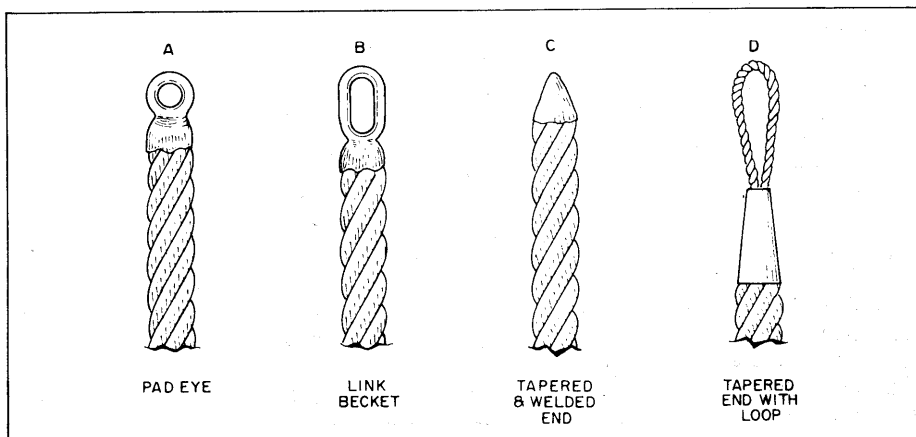


CLIPS - NUMBER OF CLIPS VARIES WITH ROPE SIZE AND CONSTRUCTION



LOOP OR THIMBLE SPLICE - HAND TUCKED

END PREPARATIONS





TERMINAL EFFICIENCIES (APPROXIMATE)

Efficiencies are based on nominal strengths

Type of Termination	Efficiency	
	Rope with IWRC*	Rope with FC**
Wire Rope Socket (Spelter or Resin)	100%	100%
Swaged Socket (Regular Lay Ropes Only)	100%	(Not established)
Mechanical Spliced Sleeve		
1" dia. and smaller	95%	92½ %
Greater than 1" dia. through 2"	92½ %	90%
Greater than 2" dia. through 3½ "	90%	(Not established)
Loop or Thimble Splice—Hand Spliced (Tucked) (Carbon Steel Rope)		
¼ "	90%	90%
5/16"	89%	89%
3/8 "	88%	88%
7/16"	87%	87%
½ "	86%	86%
5/8 "	84%	84%
¾ "	82%	82%
7/8 " thru 2½ "	80%	80%
Loop or Thimble Splice—Hand Spliced (Tucked) (Stainless Steel Rope)		
¼ "	80%	
5/16"	79%	
3/8 "	78%	
7/16"	77%	
½ "	76%	
5/8 "	74%	
¾ "	72%	
7/8 "	70%	
Wedge Sockets*** (Depending on Design)	75% to 90%	75% to 90%
Clips*** (Number of clips varies with size of rope)	80%	80%

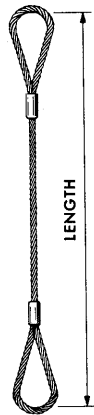
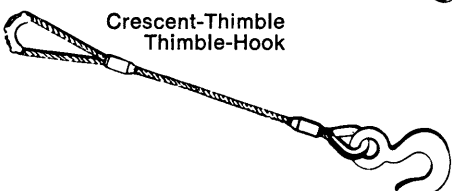
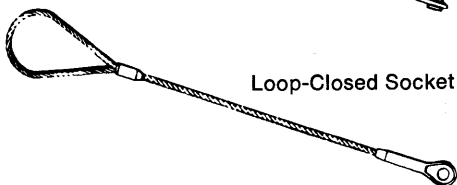
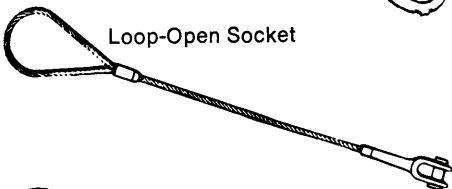
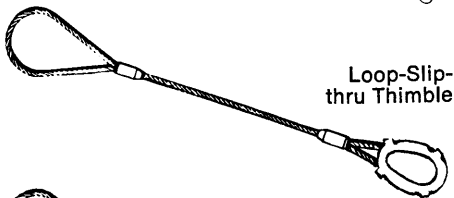
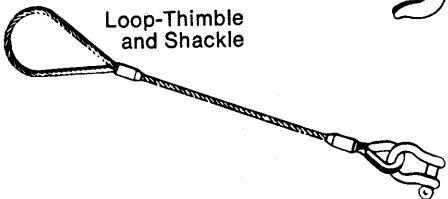
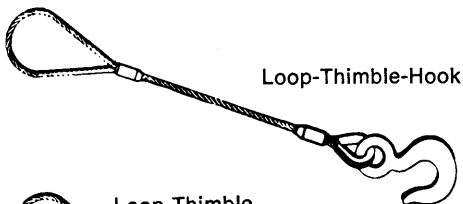
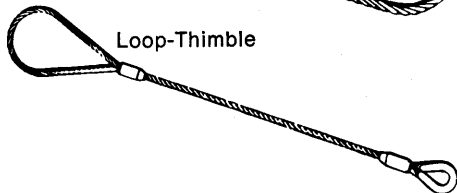
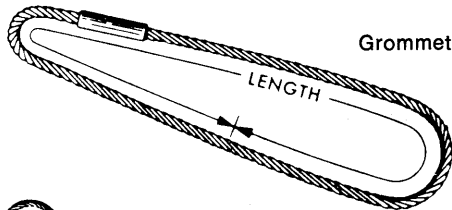
*IWRC = Independent Wire Rope Core **FC = Fiber Core

***Typical values when applied properly. Refer to fittings manufacturers for exact values and method.

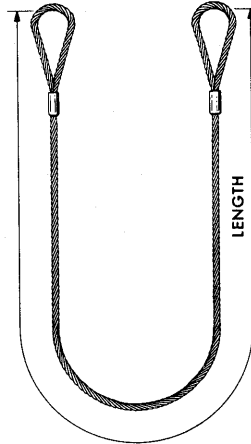


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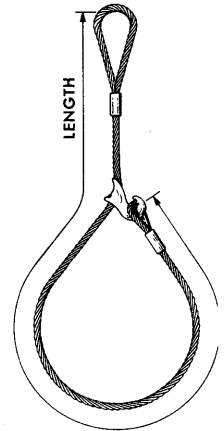
A WIDE VARIETY OF SLINGS AND ASSEMBLIES FOR SAFE AND EFFICIENT LIFTING



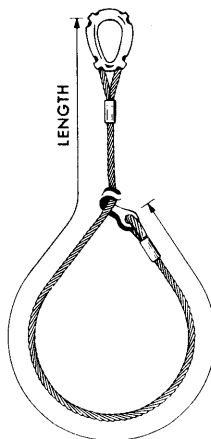
Loop & Loop Sling



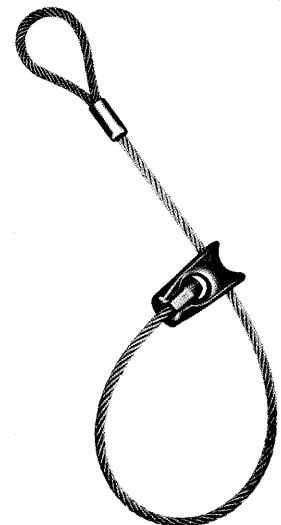
Basket Hitch



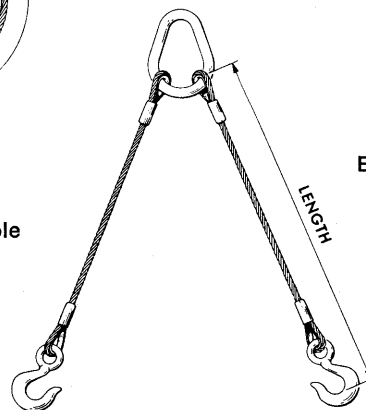
Sliding Choker Hook



Choker Sling
Slip-thru Thimble



Bardon Choker Sling



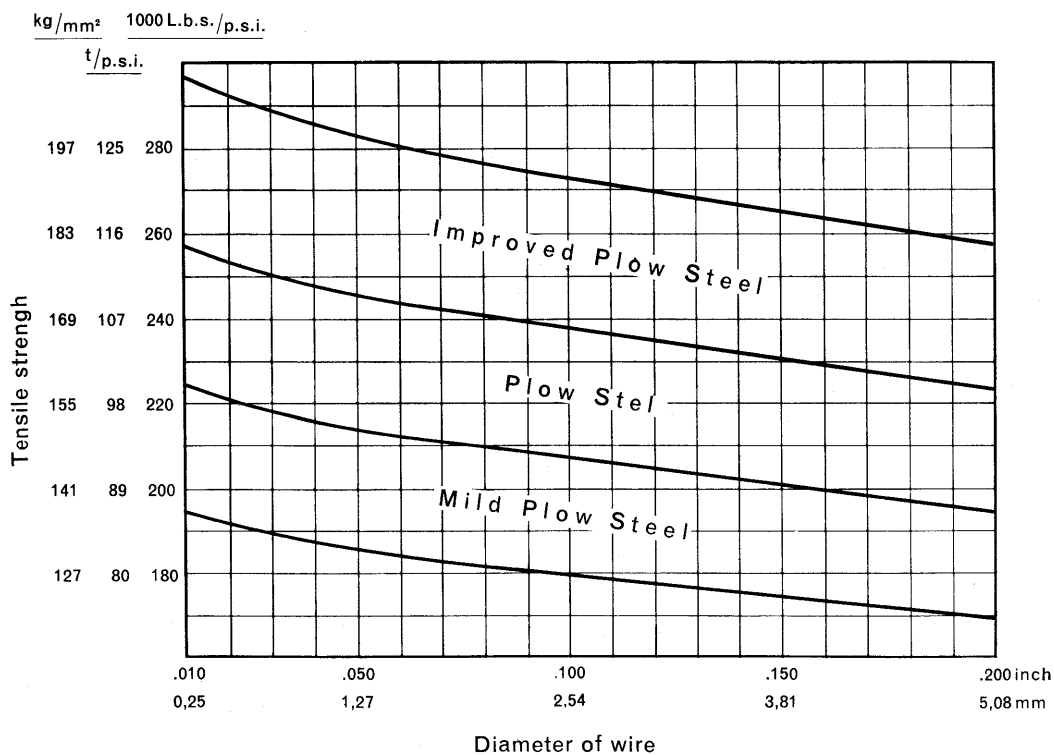
2-Leg Bridle Sling



CONVERSION TABLES

Metrics units I	English units II	CONVERSION		RANGE OF EQUIVALENT SIZES	
		I to II	II to I	Nominal diameter mm	Approximate equivalent diameter inches
mm	Inches	0.03937	25.40	2	$\frac{5}{64}$
m	Feet	3.281	0.3048	3	$\frac{1}{8}$
m	Yards	1.0934	0.9144	4	$\frac{5}{32}$
m	Fathoms	0.5468	1.8288	5	$\frac{3}{16}$
km	Statute Miles	0.6214	1.609	6	$\frac{1}{4}$
km	Naut. Miles (knots)	0.5391	1.855	7	$\frac{9}{32}$
m/sec	Feet/min.	196.8	0.00508	8	$\frac{5}{16}$
mm ²	sq. inches	0.00155	645.16	9	$\frac{3}{8}$
dm ³	Cubic feet	0.03532	28.33	11	$\frac{7}{16}$
m ³	Cubic yards	1.308	0.764	12	—
g	Ounces	0.03505	28.35	13	$\frac{1}{2}$
kg	Lbs.	2.2046	0.4536	14	$\frac{9}{16}$
kg	Cwts.	0.01968	50.80	16	$\frac{5}{8}$
t	Tons	0.984	1.016	18	$\frac{11}{16}$
kg/m	Lbs. per foot	0.672	1.488	19	$\frac{3}{4}$
kg/m	Lbs. per yard	2.016	0.4961	20	$\frac{13}{16}$
kg/mm ²	Tons p. sq. inch	0.635	1.57487	22	$\frac{7}{8}$
kg/mm ²	Lbs. p. sq. inch	1,422.31	0.0007031	24	$\frac{15}{16}$
				26	1
				28	$1\frac{1}{8}$
				32	$1\frac{1}{4}$
				35	$1\frac{3}{8}$
				38	$1\frac{1}{2}$
				44	$1\frac{3}{4}$
				52	2
				54	—
				56	$2\frac{1}{4}$

GRADES OF AMERICAN STEELS





ROPE PRODUCTS AND ACCESSORIES

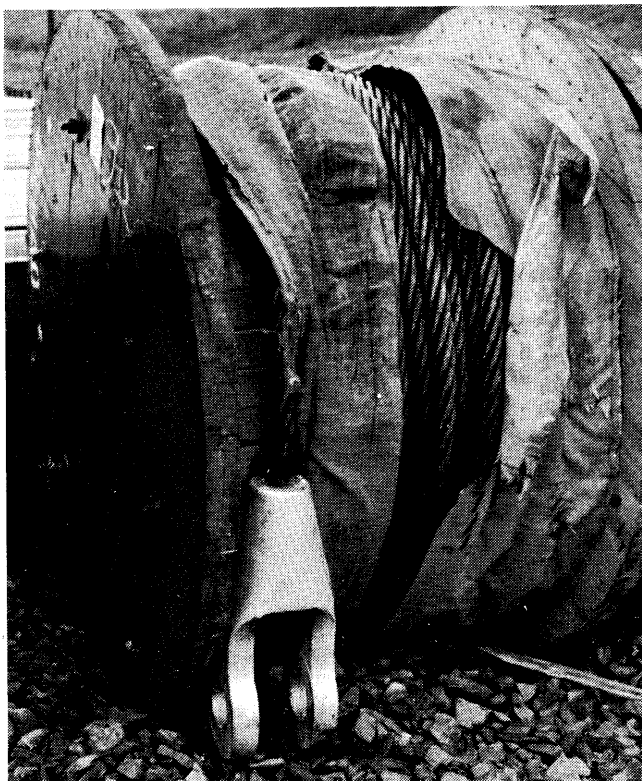
Anchor and pennant lines for semi-submersibles, drilling rigs and Offshore work-units.

in.	mm.	breaking	max.cont.	approx.
		load me- tric tons.	length mtr.	weight kg/mtr.
2	52.3	171.5	8250	10.60
2-1/4	58.-	213.3	6750	13.20
2-1/2	64.4	260.5	5470	16.10
2-3/4	70.7	316.-	4500	19.50
3	77.2	377.5	3800	23.20
3-1/4	83.7	444.7	3240	27.50
3-1/2	90.-	510.-	2800	31.60
4	103.-	664.- IPS-quality	2200	41.40

Lifting slings for general purpose in 6- and 8-strand-constructions, and special heavy lifting slings in cable laid constructions for module-installation.

CABLE-LAID		breaking	Approx. weight kg/mtr.
in.	mm.	load me- tric tons.	
4	101	470	34.-
5	127	730	53.-
6	152	1075	78.-
6-1/2	166	1280	92.7
7	178	1460	106.-
7-1/2	191	1658	122.5
8	203	1900 IPS-quality	138.5

Note: higher loads on demand.



All rope-and steel wire rope-fittings can be supplied.

Drilling lines for Off- and On-shore drilling rigs (constr. 6 x 19 Seale/iwrc).

in.	mm.	breaking	max.cont.	approx.
		load me- tric tons.	length mtr.	weight kg/mtr.
1-1/8	29	55.5	3250	3.45
1-1/4	33	68.3	2700	4.25
1-3/8	36.3	82.3	5200	5.13
1-1/2	39.3	97.7	4400	6.08
1-5/8	43.5	117.8	3660	7.34
1-3/4	46.4	136	3050	8.48

According to API standards

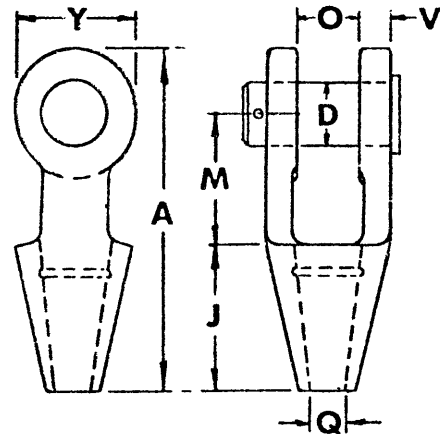
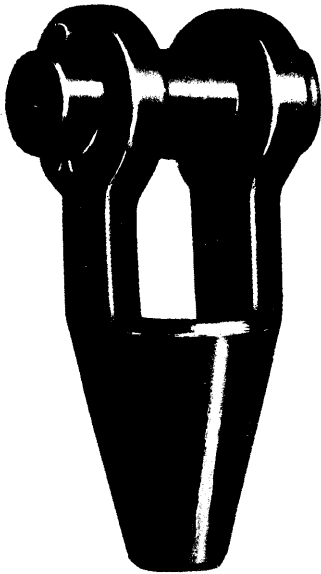
Nylon Mooring lines for the largest single point moorings and towing springs.

Towing lines for all types of towing up to the most powerful ocean-going tugs. Modern rope-construction. Can be supplied in ungalvanized finish, standard galvanisation as well in extra galvanised and in the grades: PS - IPS - EIPS.



W.J. KEATING LIMITED

HEAVY DUTY STEEL OPEN STRAND SOCKETS



Material: Sockets shall be of Cast Steel and to ASTM A-148 Grade 80-50 specification.

Testing: At the request of the customer any of the following tests may be conducted on 100% of production runs:

- (a) Full radiographed to Specification ASTM E-466 or E-186
- (b) Full Ultrasonic Testing
- (c) Full Magnetic Particle Testing in accordance with ASTM E-109-63

Finishes:

- (a) Painted
- (b) Zinc Coated - to Canadian C.S.A. Specification G-164 or to ASTM A-153 Class A.

Part No.	Strand	A	J	M	O	Q	V	Y	D	Wt
090-0207	Diam. in	in	in	in	in	in	in	in	in	lb
090-0225	1/2	6 3/4	3	2 1/2	1 1/4	11/16	9/16	2 1/4	13/16	4
090-0243	9/16	7 15/16	3 1/2	3	1 1/2	13/16	21/32	2 5/8	1 3/8	6
090-0261	11/16	9 1/4	4	3 1/2	1 3/4	31/32	3/4	3 1/8	1 5/8	9
090-0289	13/16	10 9/16	4 1/2	4	2	1 1/8	7/8	3 3/4	2	15
090-0305	15/16	11 13/16	5	4 1/2	2 1/4	1 1/4	1	4 1/8	2 1/4	23
090-0323	1 1/16	13 3/16	5 1/2	5	2 1/2	1 1/2	1 1/8	4 3/4	2 1/2	30
090-0341	1 3/16	15 1/8	6	6	3	1 5/8	1 3/16	5 5/8	2 3/4	43
090-0216	1 5/16	16 1/4	6 1/2	6 1/2	3	1 3/4	1 5/16	5 3/4	3	52
090-0234	1 7/16	18 1/4	7 1/2	7	3 1/2	2	1 1/2	6 1/2	3 1/2	80
090-0252	1 11/16	21 1/2	8 1/2	9	4	2 1/4	1 3/4	7	3 3/4	120
090-0270	1 13/16	21 1/2	8 1/4	9	4 1/4	2 1/4	1 3/4	7	4	120
090-0298	1 15/16	23 1/2	9	10	4 1/2	2 9/16	2 1/8	7 3/4	4 1/4	182
090-0314	2 1/16	23 1/2	9	10	4 1/2	2 9/16	2 1/8	7 3/4	4 1/2	182
090-0332	2 3/16	26 1/2	10 1/2	11	5	2 7/8	2 3/8	8 1/2	4 3/4	256
090-0350	2 5/16	28 1/4	11 1/2	11 1/2	5 1/4	3 1/8	2 7/8	9	5	322
090-0403	2 7/16	28 3/4	11 1/2	11 1/2	5 3/4	3 5/16	3	9 1/2	5 1/4	335
090-0421	2 5/8	30 1/2	12 1/2	12	6	3 5/16	3	9 3/4	5 3/4	430
090-0449	2 7/8	30 5/8	12 1/2	12	6 1/4	3 5/8	3 1/8	10	6	435
090-0467	3 1/8	32 1/2	13 1/4	12 1/2	6 3/4	3 7/8	3 1/4	10 3/4	6 1/2	455
090-0485	3 3/8	34 3/4	14	13	7 1/4	3 7/8	3 5/16	11 3/4	6 3/4	565
090-0500	3 5/8	36 1/4	15	13 1/2	7 1/2	4 1/4	3 1/2	12 1/2	7	780
090-0528	3 7/8	38 3/4	15 1/2	14 1/4	8	4 5/16	3 5/8	13	7 1/2	798

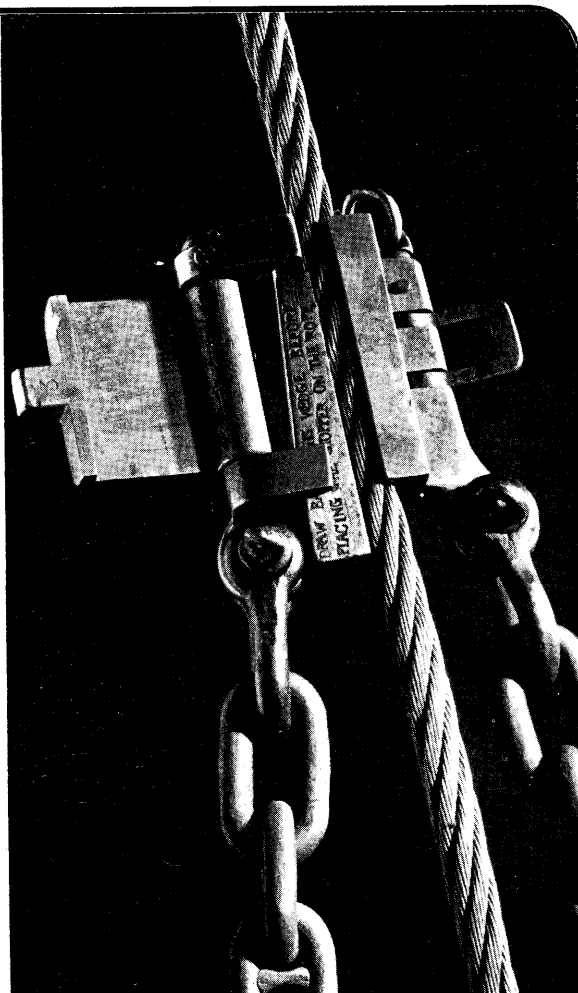


WIRE ROPE STOPPER

DESCRIPTION

The 'Stopper' grips and holds steel rope without causing kinks or in any way damaging the rope. Load at the fixing end is transferred by means of a bridle chain to the two shackles of the stopper. Acting on the wedge principle the stopper is simple in use. For attaching to a rope all that is necessary is for the stopper to be opened and the wedge fully withdrawn. The stopper is then closed round the steel rope, the hinged keep plate closed and locking pin pushed into position. The wedge is lightly tapped into position so that when load is applied to the rope the wedge action automatically tightens. The stopper can only be loosened by removing the locking pin.

The stopper is designed so that it can be opened and closed by one man using only a hammer. All moving parts are retained in such a manner that although when the stopper is opened these parts are still attached and need only knocking back into position for operation.



Stopper with keep plate open.

K-2517

WEIGHTS & DIMENSIONS

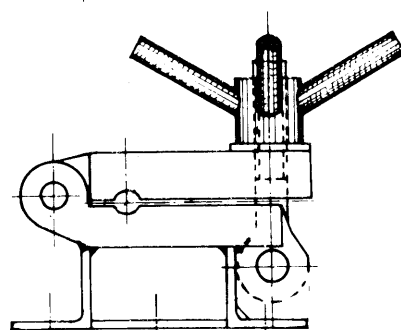
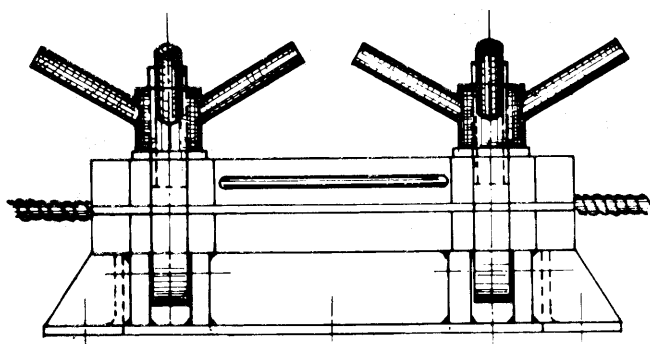
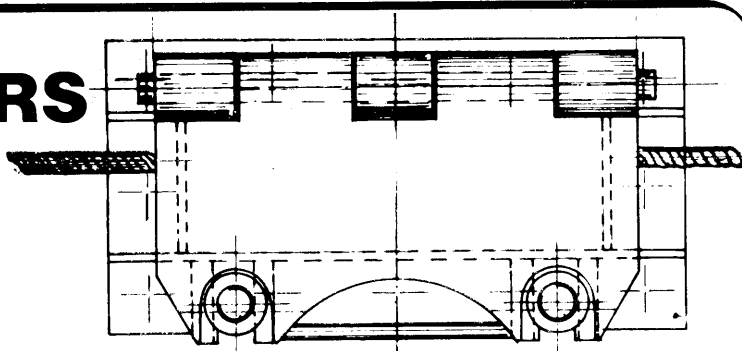
Part No.	RANGE OF ROPE SIZE		APPROX. WEIGHT INCL. BRIDLE kg.	PROOF LOAD tonnes	RECOMMENDED S.W.L. tonnes	STOPPER AND SHACKLE DIMENSIONS							
	Dia. mm. in.	Circ. nominal in.				mm							
						A mm.	B mm.	C mm.	D mm.	E mm.	F mm.	G mm.	H mm.
090-0017	72-68 2 $\frac{3}{4}$ -3	8 $\frac{1}{2}$ -9	600	150	75	559	1422	1981	241	356	498	167	89
090-0018	60-64 2 $\frac{1}{2}$ -2 $\frac{3}{8}$	7 $\frac{1}{2}$ -8	365.8	90	45	559	1372	1931	241	356	498	167	89
090-0019	54-56 2 $\frac{1}{8}$ -2 $\frac{1}{4}$	6 $\frac{3}{4}$ -7	370.3	80	40	559	1372	1931	241	356	498	167	89
090-0020	48-52 1 $\frac{7}{8}$ -2	6 -6 $\frac{1}{2}$	170.3	75	37	371	1372	1931	173	238	333	114	60
090-0021	38-44 1 $\frac{9}{16}$ -1 $\frac{3}{4}$	5 -5 $\frac{1}{2}$	99	50	25	313	1194	1507	147	206	294	88	48
090-0022	32-36 1 $\frac{1}{4}$ -1 $\frac{7}{16}$	4 -4 $\frac{1}{2}$	57.7	36	18	264	1016	1280	121	168	235	73	38
090-0023	22-28 $\frac{7}{8}$ -1 $\frac{1}{8}$	3 -3 $\frac{1}{2}$	23.2	20	10	198	737	935	93	132	183	55	32
090-0024	16-20 $\frac{5}{8}$ -1 $\frac{3}{16}$	2 -2 $\frac{1}{2}$	7.7	5	2.5	141	762	803	66	92	128	38	22
090-0025	8-12 $\frac{5}{16}$ - $\frac{7}{16}$	1 -1 $\frac{1}{2}$	3.7	1.5	0.75	84	330	414	40	56	77	31	16



W.J. KEATING LIMITED

WIRE STOPPERS

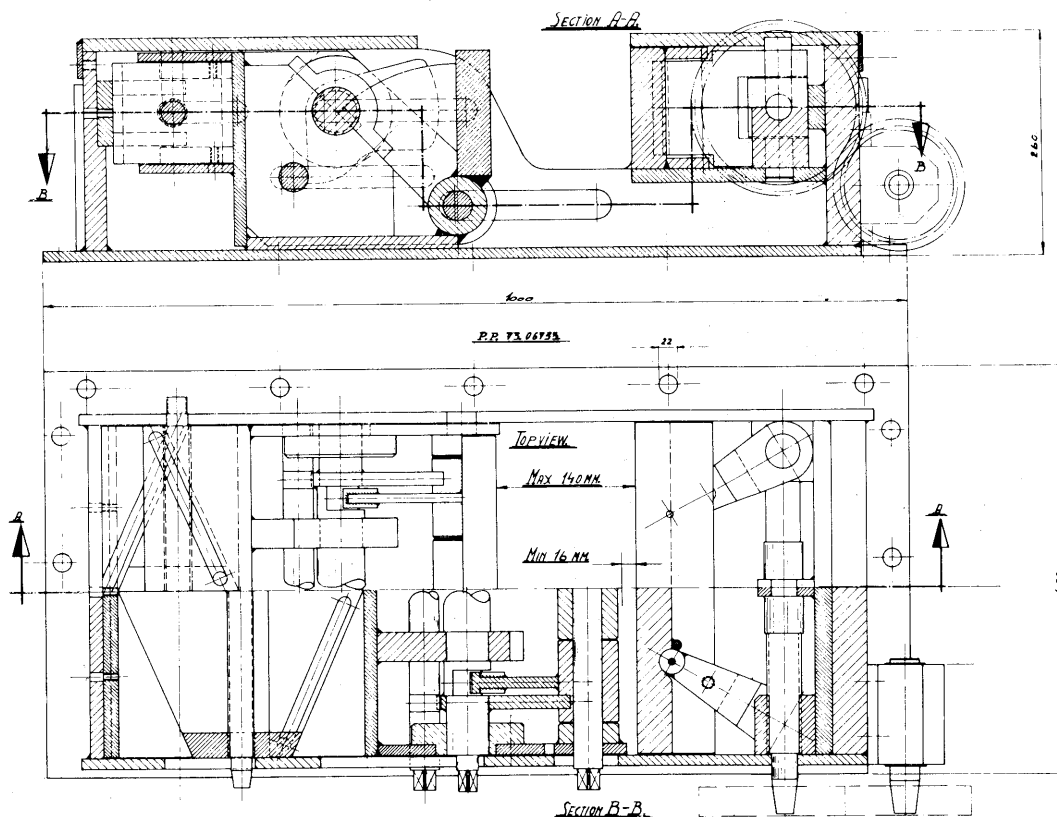
Wire stoppers are especially designed for floating docks, floating gins, pontoons and are used in conjunction with towing winches to hold wires with diameters of up to 50 mm. The wire stoppers can be delivered with either one or two pressing levers.



QUICK RELEASE WIRE CLAMPS

Quick Release Wire Clamps are especially designed for tugs and launches to bring the mooring lines to mooring points. The clamps are designed to accept wires with diameters from 20 mm up to 140 mm holding force 15 tons. Only one single movement is required to release the line either by hand or remote control.

Quick Release Wire Clamps, the ideal time saving equipment!



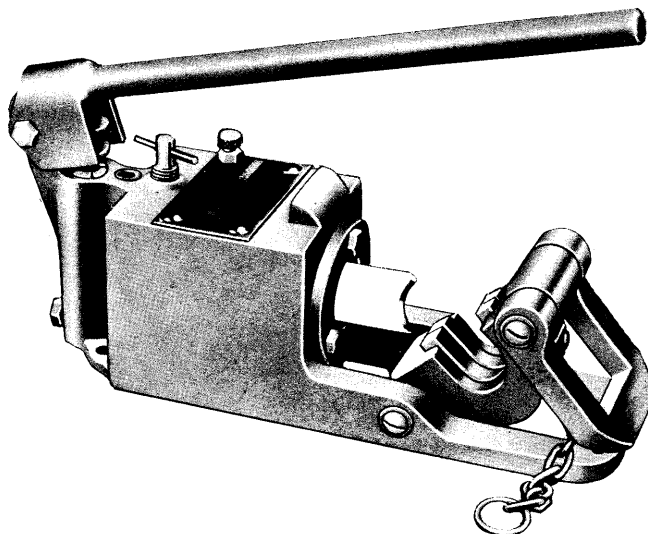


W.J. KEATING LIMITED

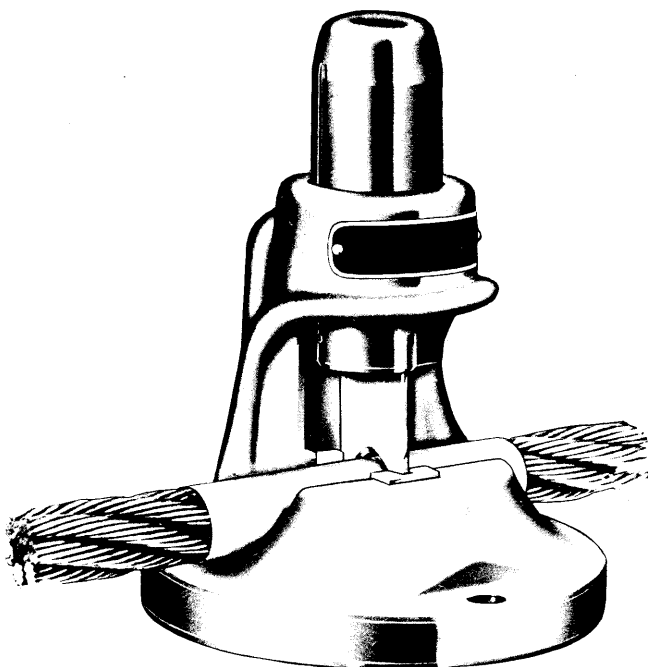
WIRE ROPE CUTTERS

HYDRAULIC TYPE

K-1085



MODEL	CAPACITY	DIMENSIONS	WEIGHT
W	$\frac{3}{4}$ "	12" x $3\frac{5}{8}$ " x 6" high	21 lbs.
P	1 $\frac{1}{8}$ "	14" x $4\frac{1}{8}$ " x 7" high	33 lbs.
C	1 $\frac{3}{4}$ "	18 $\frac{1}{2}$ " x 5" x 8" high	65 lbs.



IMPACT TYPE (HAMMER ACTION)

K-1086

MODEL	CAPACITY	HEIGHT	BASE	WEIGHT
1	1"	6"	3 $\frac{1}{2}$ "	7 lbs.
1A	1 $\frac{1}{16}$ "	7"	6 $\frac{1}{4}$ "	15 lbs.
2	1 $\frac{1}{2}$ "	9"	7 $\frac{3}{4}$ "	28 lbs.



W.J. KEATING LIMITED

735 AVOCA AVENUE, DORVAL, QUE., CANADA, H9P 1G4 TEL. 514-631-9815 TELEX 05-822633

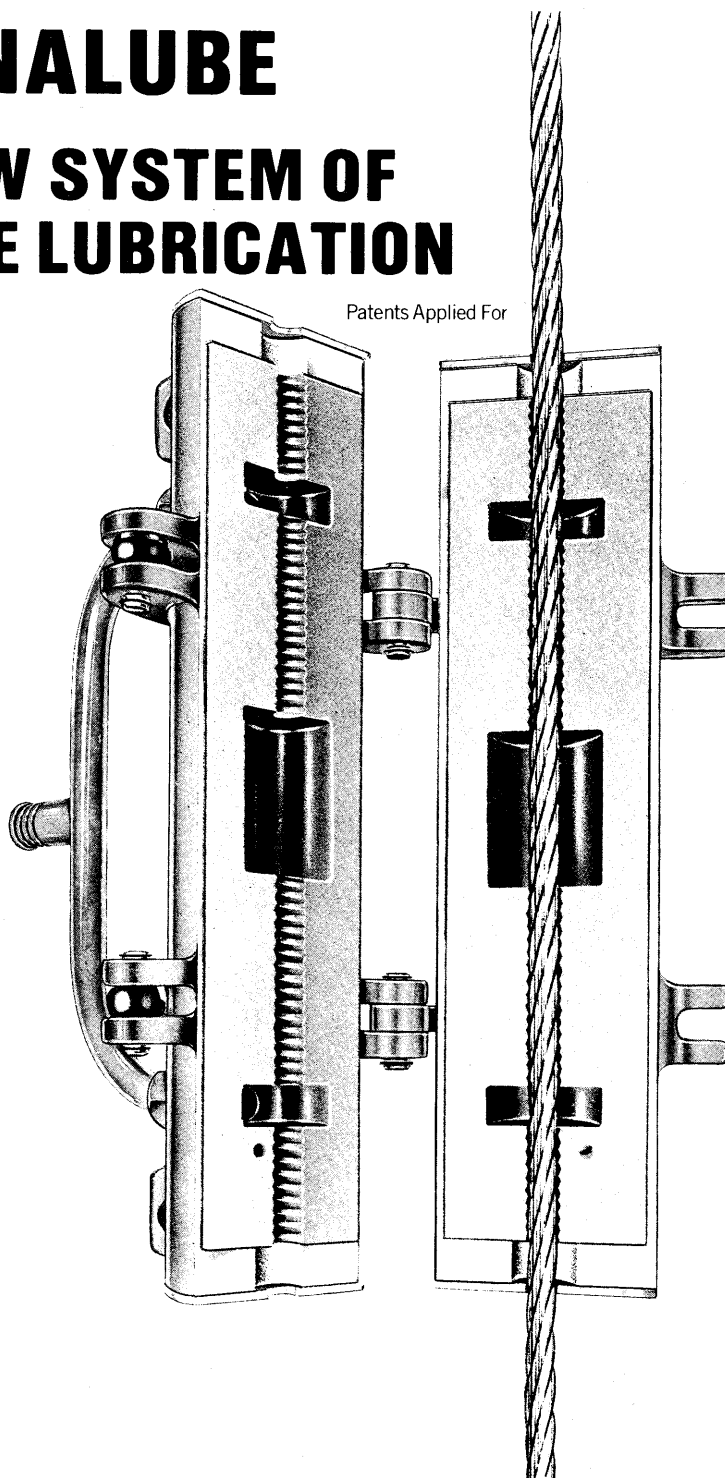
DYNALUBE

THE NEW SYSTEM OF WIRE ROPE LUBRICATION

The DYNALUBE Wire Rope Lubricating System has been specifically designed so that in a single pass a wire rope can have:

1. Its outer surface scraped clean.
2. Lubricant pressure-injected without spillage or wastage, to the very core of the rope thus removing the corrosion-creating moisture.
3. Lubricant applied smoothly and uniformly to the surface of the rope.

All the above can be achieved with rope-travel speed of up to 3,500 metres per hour, depending on diameter of rope, etc.



A wire rope is a complicated and carefully designed piece of equipment but, as such, it is extremely vulnerable to mis-use and abuse. All Manufacturers of wire rope are adamant that '...effective lubrication is vital...and is an overwhelming consideration.'

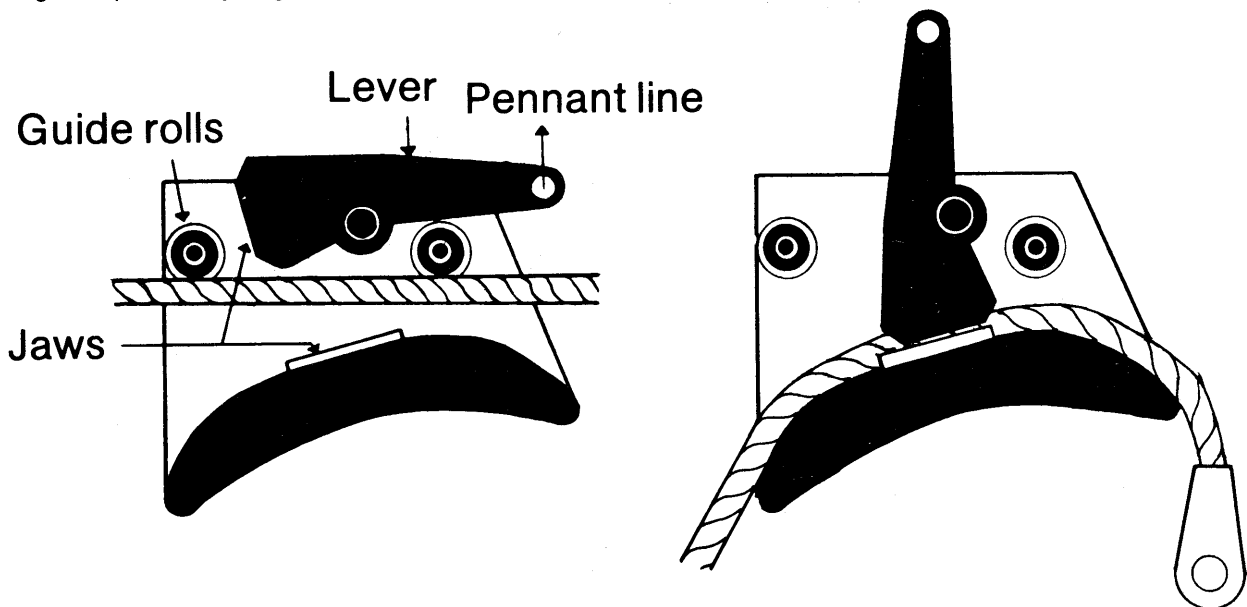


W.J. KEATING LIMITED

NEW TYPE ANCHOR CHASER (Flying Dutchman)

The ideal, time-saving way of retrieving or shifting heavy anchors after marker buoys have been lost. Indispensable where strong currents or excessive water depth make diver re-installation of a pennant line impossible.

Downtime and expenditures because of the shifting operation is cut to a minimum since the clamp is designed to slide freely along anchor cables until the ideal retrieval point is reached. Force applied to the pennant line will close the jaws immovably around the anchor cable which is bent along a shaped saddle designed specifically to give an acceptable, non-damaging bending radius to expensive anchor lines.



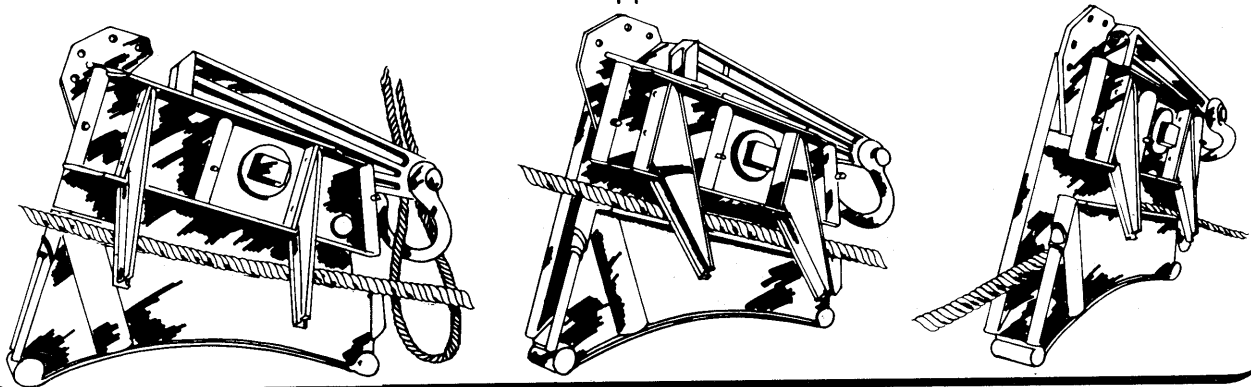
Holding force in the locked position has been tested at 80 000 lbs.

Interchangeable jaws make one clamp universal for anchor cables ranging in diameter from 2 to 3½ ins. A single clamp will lift anchors weighing up to 70 000 lbs.

Safeguard your anchor-handling operations on offshore floating equipment by keeping an anchor retrieval clamp always in store.

**PROVEN IN ACTUAL SERVICE
EASY TO HANDLE DIMENSIONS
WEIGHT ABOUT 2 000 LBS (depending on size)**

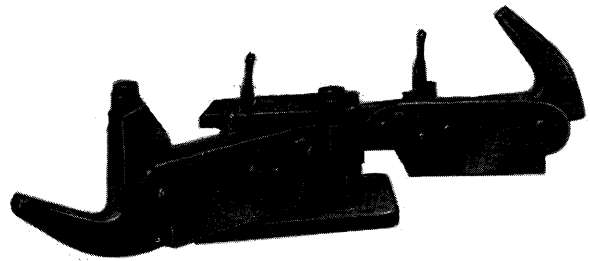
Patents Applied For



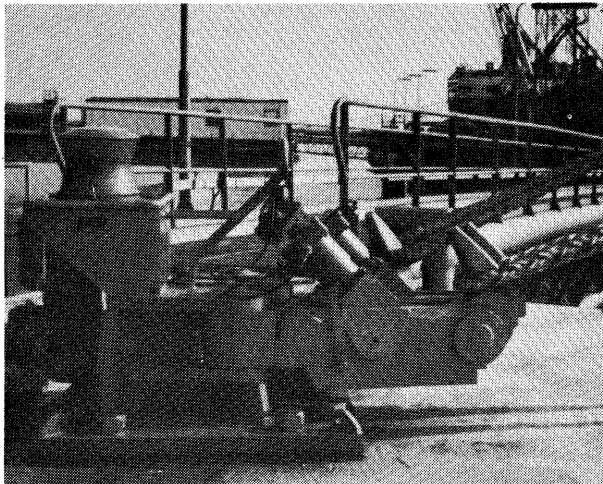


QUICK RELEASE MOORING HOOKS

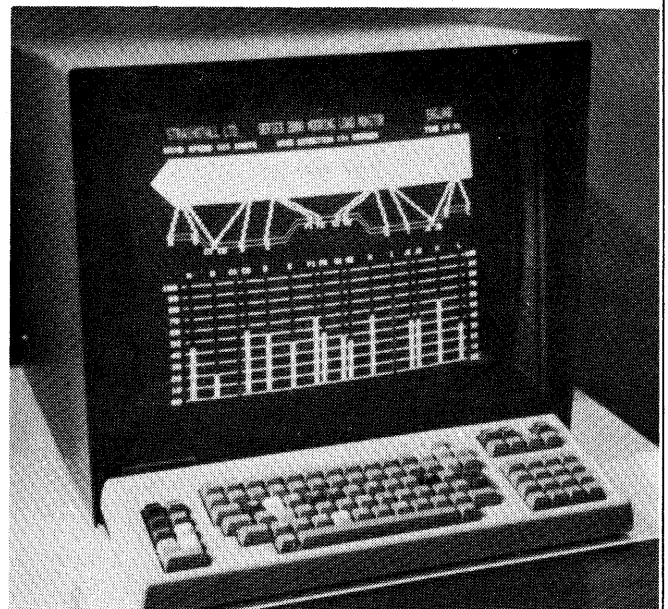
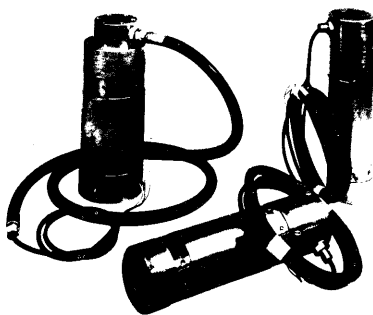
- 60 to 200 ton capacities
- Single, double, triple, quadruple, sextuple arrangements
- With or without integral capstan
- Free standing capstans



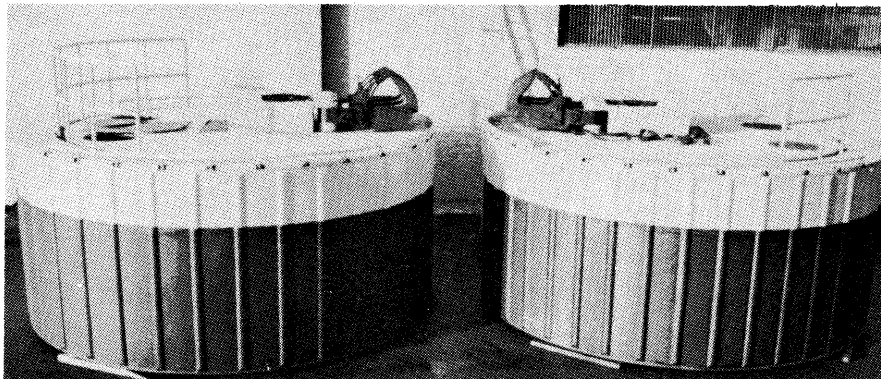
**QUICK RELEASE
MOORING HOOK**



REMOTE ELECTRIC, HYDRAULIC RELEASE



**LOAD MONITORING SYSTEMS
AND TRANSDUCER PINS**



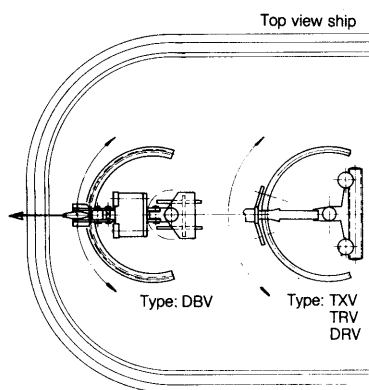
MOORING BUOYS AND MOORING BUOY HEAD ASSEMBLIES



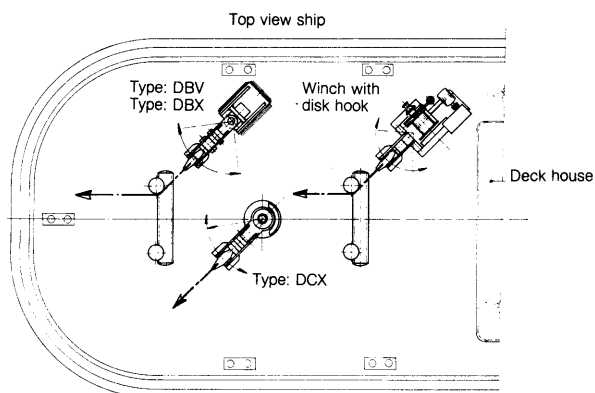
QUICK RELEASE TOWING HOOKS

Typical hook arrangements on ship deck

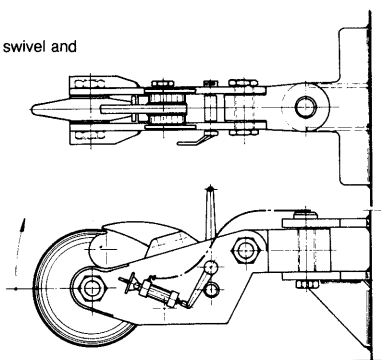
HARBOUR HOOK



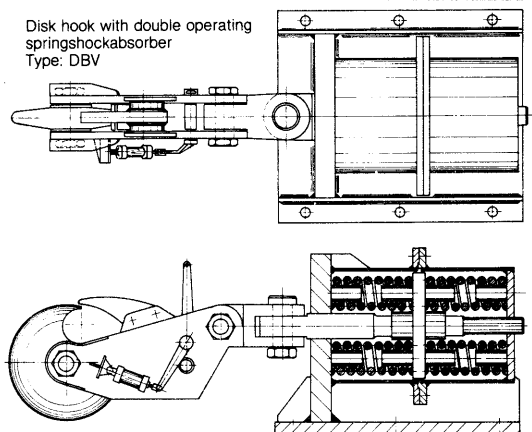
TOWING HOOK



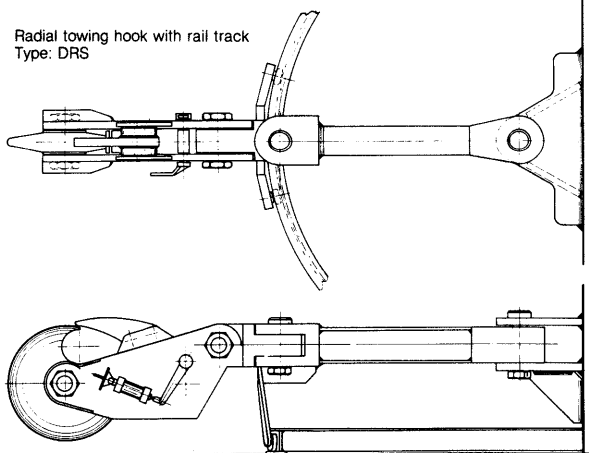
Disk hook with connecting swivel and
towing bracket
Type: DCX



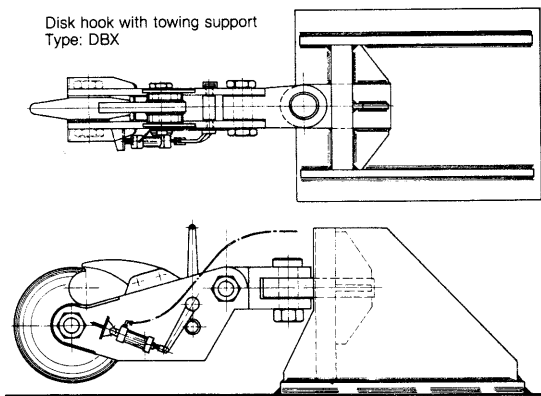
Disk hook with double operating
springshockabsorber
Type: DBV



Radial towing hook with rail track
Type: DRS



Disk hook with towing support
Type: DBX

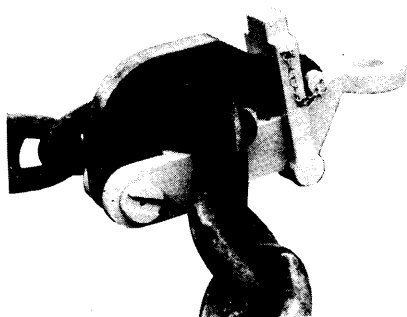
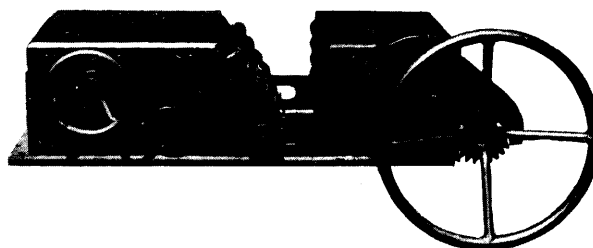




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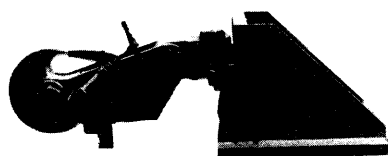
A WIDE VARIETY OF QUICK RELEASE DEVICES

Quick Release Wire Clamps



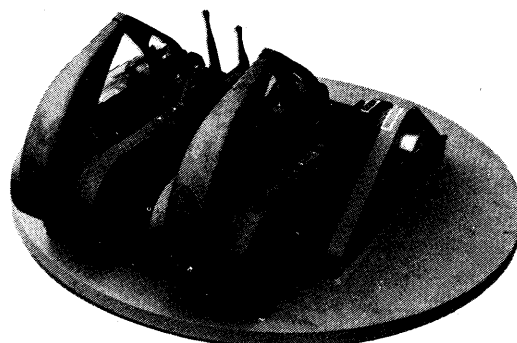
Chain Hooks

Shock absorbers



Quick Release Towing Hooks

Complete mooring buoy head assemblies

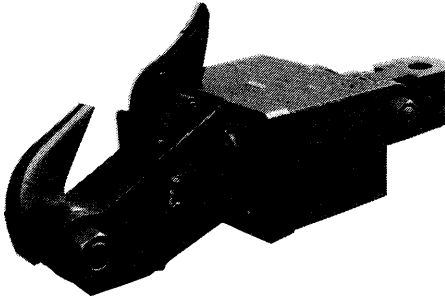
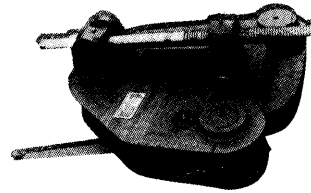




W.J. KEATING LIMITED

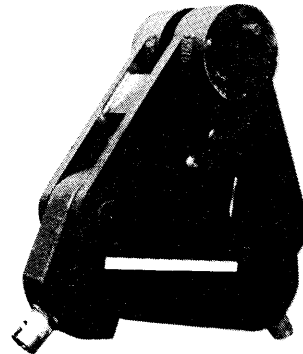
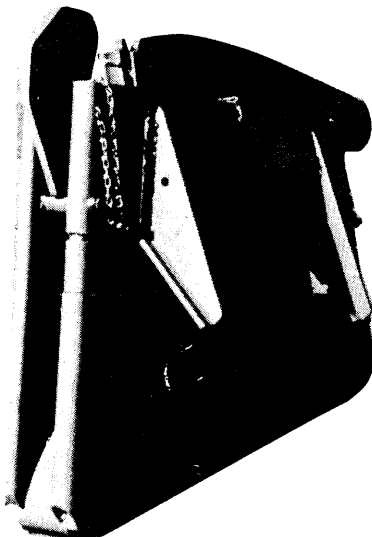
A WIDE VARIETY OF QUICK RELEASE DEVICES

Quick Release devices for retaining ball clutches



Harbour Hooks with keeper and parallel springs

Quick Release devices for pipe layers



Flying Dutchman Anchor Wire Clamps



SMALL ROPES "BETTER" COMMERCIAL QUALITY PREFORMED — STEEL — CABLE SPECIFICATIONS

Diameter in Inches	Diameter in Millimeters	Construction	Weight in Lbs. Per M/FT.	GALVANIZED	STAINLESS STEEL
				Breaking Strength in Lbs.	Breaking Strength in Lbs.
3/64	1.2	1x7	5.2	375	375
3/64	1.2	1x19	5.5	375	375
3/64	1.2	7x7	4.2	270	270
1/16	1.6	1x7	8.5	500	500
1/16	1.6	1x19	8.5	500	500
1/16	1.6	7x7	7.5	480	480
1/16	1.6	7x19	6.6	Stainless only.	480
5/64	2	1x7	14.0	800	800
5/64	2	1x19	14.2	800	800
5/64	2	7x7	11.8	650	650
3/32	2.5	1x7	20.8	1,200	1,200
3/32	2.5	1x19	20	1,200	1,200
3/32	2.5	7x7	16	920	920
3/32	2.5	7x19	16	1,000	920
1/8	3.2	1x7	32	2,100	2,100
1/8	3.2	1x19	35	2,100	2,100
1/8	3.2	7x7	28.5	1,700	1,700
1/8	3.2	7x19	29	2,000	1,760
5/32	4	1x7	51	3,300	3,300
5/32	4	1x19	55	3,300	3,300
5/32	4	7x7	43	2,600	2,400
5/32	4	7x19	45	2,800	2,400
3/16	5	1x7	73	4,700	4,700
3/16	5	1x19	77	4,700	4,700
3/16	5	7x7	62	3,700	3,700
3/16	5	7x19	65	4,200	3,700
7/32	5.5	1x7	98	5,400	5,400
7/32	5.5	1x19	102	6,300	6,300
7/32	5.5	7x7	83	4,800	4,800
7/32	5.5	7x19	86	5,600	5,000
1/4	6.5	1x7	121	6,650	6,650
1/4	6.5	1x19	135	8,200	8,200
1/4	6.5	7x7	106	6,100	6,100
1/4	6.5	7x19	110	7,000	6,400
9/32	7.5	1x19	170	9,900	9,900
9/32	7.5	7x7	134	7,600	7,600
9/32	7.5	7x19	139	8,000	7,800
5/16	8	1x19	210	12,500	12,500
5/16	8	7x7	167	9,200	9,000
5/16	8	7x19	173	9,800	9,000
3/8	9.5	1x19	300	18,000	17,500
3/8	9.5	7x7	236	13,100	12,000
3/8	9.5	7x19	243	14,400	12,000
7/16	11	6x19IWRC	356	17,600	16,300
1/2	12.7	6x19IWRC	458	22,800	22,800
9/16	14.5	6x19IWRC	590	26,100	28,500
5/8	16	6x19IWRC	715	35,200	35,000
3/4	19	6x19IWRC	1,052	46,000	49,600



W.J. KEATING LIMITED

TYPE 305 PREFORMED NON-MAGNETIC STAINLESS STEEL CABLE

Type 305 Stainless Steel Cable is manufactured to meet U.S. Government Military Specification MIL-C-18375A Cable, Steel (Corrosion Resistant Non-Magnetic) Flexible, Preformed (For Aeronautical Use).

(MIL-C-18375A does not include any 1 x 7 or 1 x 19 nor does it include 3/64" 7 x 7 construction. We list these added sizes and constructions for commercial or marine applications only.)

TYPE 316 EXTRA CORROSION RESISTANT STAINLESS STEEL

High strength type 316 Stainless Steel Cable has excellent corrosion resistance yet breaking strengths are almost as high as type 302. If you require high corrosion resistance and high strength, type 316 **high strength** will fill your needs. (Regular type 316 cable priced on request.)

SPECIFICATIONS

Diameter in Inches	Diameter in Millimeters	Construction	Weight in Lbs. Per M/Ft.	305 Breaking Strength in Lbs.	316 Breaking Strength in Lbs.
3/64	1.2	1x7	5.2	288	361
3/64	1.2	1x19	5.5	250	317
3/64	1.2	7x7	4.2	202	252
1/16	1.6	1x7	8.5	405	490
1/16	1.6	1x19	8.5	385	482
1/16	1.6	7x7	7.5	360	455
1/16	1.6	7x19	6.6	360	448
5/64	2	1x7	14.0	680	784
5/64	2	1x19	14.2	625	770
5/64	2	7x7	11.8	487	615
3/32	2.5	1x7	20.8	1,080	1,175
3/32	2.5	1x19	20	925	1,155
3/32	2.5	7x7	16	700	880
3/32	2.5	7x19	16	785	980
1/8	3.2	1x7	32	1,665	1,830
1/8	3.2	1x19	35	1,785	2,060
1/8	3.2	7x7	28.5	1,310	1,638
1/8	3.2	1x19	29	1,300	1,670
5/32	4	1x7	51	2,700	2,940
5/32	4	1x19	55	3,030	3,235
5/32	4	7x7	43	1,940	2,310
5/32	4	7x19	45	2,000	2,300
3/16	5	1x7	73	3,670	3,990
3/16	5	1x19	77	4,280	4,700
3/16	5	7x7	62	3,145	3,628
3/16	5	7x19	65	2,900	3,565
7/32	5.5	1x7	98	4,914	5,400
7/32	5.5	1x19	102	5,733	6,300
7/32	5.5	7x7	83	4,080	4,700
7/32	5.5	7x19	86	3,800	4,820
1/4	6.5	1x7	121	6,115	6,650
1/4	6.5	1x19	135	7,450	8,200
1/4	6.5	7x7	106	5,370	5,980
1/4	6.5	7x19	110	4,900	5,875
9/32	7.5	1x19	170	9,100	9,900
9/32	7.5	7x7	134	6,512	7,250
9/32	7.5	7x19	139	6,100	7,510
5/16	8	1x19	210	11,500	12,500
5/16	8	7x7	167	8,180	8,920
5/16	8	7x19	173	7,600	8,825
3/8	9.5	1x19	300	16,100	17,500
3/8	9.5	7x7	236	11,460	12,600
3/8	9.5	7x19	243	11,000	11,760
7/16	11	6x19IWRC	356	14,900	15,980
1/2	12.7	6x19IWRC	458	19,300	20,590
9/16	14.5	6x19IWRC	590	24,300	27,930
5/8	16	6x19IWRC	715	30,100	34,300
3/4	19	6x19IWRC	1,052	42,900	48,600



W.J. KEATING LIMITED

WIRE ROPE: STEEL, (STAINLESS STEEL) PREFORMED NONROTATING, FOR AIRCRAFT RESCUE HOIST AND CARGO HANDLING (WINCHING) TO MIL-W-83140

This specification covers the requirements for nonrotating, preformed stainless steel wire rope for aircraft rescue hoist and cargo handling winching applications. The wire rope shall be furnished in the following types: Type 1, 19 x 7, Nonrotating for aircraft rescue hoist. Type II, 10 x 7, (7 x 19 IWRC) Nonrotating for cargo handling (winching).

SPECIFICATIONS

Nominal Diameter Of Wire Rope		Construction	Tolerance On Diameter (Plus Only)		Allowable Increase Of Diameter		Minimum Break- ing Strength		Approximate Weight Per 1000 Feet	
			in	mm	in	mm	lbs.	kg	lbs.	kg
5/32	3.97	19x7	.008	.203	.017	.432	2,160	982.0	45	20.4
3/16	4.76	19x7	.009	.229	.019	.483	3,330	1,514.0	65	29.5
7/32	5.56	19x7	.010	.254	.020	.508	4,500	2,045.0	86	39.0
7/32	5.56	10x7†	.010	.254	.020	.508	4,500	2,045.0	86	39.0
1/4	6.35	19x7	.012	.305	.021	.533	5,760	2,618.0	110	50.0
5/16	7.94	19x7	.016	.406	.024	.610	8,100	3,682.0	173	78.6
3/8	9.52	19x7	.020	.508	.027	.686	10,800	4,909.0	243	110.0
1/2	12.7	19x7	.025	.635	.034	.864	20,520	9,327.0	458	208.0
5/8	15.9	19x7	.030	.762	.040	1.016	31,500	14,318.0	715	325.0

†(7x19IWRC) Type II

MONEL CABLE

Monel Cable is more resistant to corrosive atmospheres than most commercial metals. Applications for Monel Cable exist when the cable must operate in salt water, citric juices, food acids, alkaline substances, or pickling and acid solutions.

Diameter in mm		7 x 7		7 x 19			6 x 42		
		Breaking Str. Lbs.	Weight Per M/Ft.	Breaking Str. Lbs.	Weight Per M/Ft.	Part No.	Breaking Str. Lbs.	Weight Per M/Ft.	Part No.
3/64	1.2	135	4.5						
1/16	1.6	215	8.3						
3/32	2.5	480	18	480	18	MC 09479			
1/8	3.2	850	31	875	33	MC 12579	440	20	MC 12564
5/32	4	1,350	49	1,350	52	MC 15679			
3/16	5	1,900	70	1,950	75	MC 18879	995	45	MC 18864
7/32	5.5	2,600	95	2,650	105	MC 21979			
1/4	6.5	3,400	125	3,500	135	MC 25079	1,750	80	MC 25064
9/32	7.5	4,300	158	4,400	170	MC 28179			
5/16	8	5,300	195	5,450	210	MC 31379	2,750	120	MC 31364
3/8	9.5	7,650	280	7,850	300	MC 37579	3,950	175	MC 37564
7/16	11	10,400	360	10,700	385	MC 43879	5,400	225	MC 43864
1/2	12.7	13,600	475	13,950	505	MC 50079	7,050	300	MC 50064
9/16	14.3	17,200	595	17,650	635	MC 56379	8,950	360	MC 56364
5/8	15.9	20,600	735	21,800	785	MC 62579	11,000	444	MC 62564
3/4	19.1	29,650	1,060	31,400	1,130	MC 75079			



SERIES FAA SPECIFICATIONS

Classification. The wire rope covered in this specification shall be of the following:

TO MIL-W-83420B

TYPE I - NON-JACKETED WIRE ROPE

Composition A - Carbon Steel, Tin or Zinc Coated

Construction and Physical Properties of Type I, Composition A

Nominal Diameter Of Wire Rope		Construction	Tolerance On Diameter (Plus Only)		Allowable Increase Of Diameter		Minimum Breaking Strength Composition A		Approximate Weight Per 100 Feet	
in	mm		in	mm	in	mm	lbs.	kg	lbs.	kg
1/32	.79	3x7	.006	.152	.006	.152	110	49.8	0.16	0.07
3/64	1.19	3x7	.008	.203	.008	.203	230	104.3	0.33	0.15
3/64	1.19	7x7	.008	.203	.008	.203	270	122.4	0.42	0.19
1/16	1.59	7x7	.010	.254	.009	.229	480	217.7	0.75	0.34
1/16	1.59	7x19	.010	.254	.009	.229	480	217.7	0.75	0.34
3/32	2.38	7x7	.012	.305	.010	.254	920	417.3	1.60	0.72
3/32	2.38	7x19	.012	.305	.010	.254	1,000	453.6	1.74	0.79
1/8	3.18	7x19	.014	.356	.011	.279	2,000	907.2	2.90	1.31
5/32	3.97	7x19	.016	.406	.107	.432	2,800	1270.	4.50	2.04
3/16	4.76	7x19	.018	.457	.019	.483	4,200	1905.	6.50	2.95
7/32	5.56	7x19	.018	.457	.020	.508	5,600	2540.	8.60	3.90
1/4	6.35	7x19	.018	.457	.021	.533	7,000	3175.	11.00	4.99
9/32	7.14	7x19	.020	.508	.023	.584	8,000	3629.	13.90	6.30
5/16	7.94	7x19	.022	.559	.024	.610	9,800	4445.	17.30	7.85
3/8	9.52	7x19	.026	.660	.027	.686	14,000	6532.	24.30	11.00

SERIES FAA SPECIFICATIONS

TYPE I - NON-JACKETED WIRE ROPE

Composition B - Corrosion Resistant Steel

Construction and Physical Properties of Type I, Composition B

Nominal Diameter Of Wire Rope		Construction	Tolerance On Diameter (Plus Only)		Allowable Increase Of Diameter		Minimum Breaking Strength Composition B		Approximate Weight Per 100 Feet	
in	mm		in	mm	in	mm	lbs.	kg	lbs.	kg
1/32	.79	3x7	.006	.152	.006	.152	110	49.8	0.16	0.07
3/64	1.19	3x7	.008	.203	.008	.203	230	104.3	0.33	0.15
3/64	1.19	7x7	.008	.203	.008	.203	270	122.4	0.42	0.19
1/16	1.59	7x7	.010	.254	.009	.229	480	217.7	0.75	0.34
1/16	1.59	7x19	.010	.254	.009	.229	480	217.7	0.75	0.34
3/32	2.38	7x7	.012	.305	.010	.254	920	417.3	1.60	0.72
3/32	2.38	7x19	.012	.305	.010	.254	920	417.3	1.74	0.79
1/8	3.18	7x19	.014	.356	.011	.279	1,760	798.3	2.90	1.31
5/32	3.97	7x19	.016	.406	.107	.432	2,400	1089.	4.50	2.04
3/16	4.76	7x19	.018	.457	.019	.483	3,700	1678.	6.50	2.95
7/32	5.56	7x19	.018	.457	.020	.508	5,000	2268.	8.60	3.90
1/4	6.35	7x19	.018	.457	.021	.533	6,400	2903.	11.00	4.99
9/32	7.14	7x19	.020	.508	.023	.584	7,800	3538.	13.90	6.30
5/16	7.94	7x19	.022	.559	.024	.610	9,000	4082.	17.30	7.85
3/8	9.52	7x19	.026	.660	.027	.686	12,000	5443.	24.30	11.00

* Denotes Stock Item.

When ordering: List diameter, construction and Part No.



SERIES FAA SPECIFICATIONS TO MIL-W-83420B

TYPE II - JACKETED WIRE ROPE

Composition A - Carbon Steel, Tin or Zinc Coated

**Construction and Dimensional Properties of Type II, Composition A
Including Wire Rope Jacketed Tolerances**

Nominal Diameter Of Wire Rope		Construction	Outside Diameter Of Jacket		Tolerance On Jacket O.D. (Plus Only)		Jacket Wall Thickness (Reference)		Approximate Weight Per 100 Feet	
in	mm		in	mm	in	mm	in	mm	lbs.	kg
1/32	.79	3x7	3/64	1.19	.008	.203	.008	.203	0.22	0.10
3/64	1.19	3x7	1/16	1.59	.010	.254	.008	.203	0.43	0.19
3/64	1.19	7x7	1/16	1.59	.010	.254	.008	.203	0.49	0.22
3/64	1.19	7x7	5/64	2.00	.012	.305	.016	.406	0.76	0.34
1/16	1.59	7x7	3/32	2.38	.012	.305	.016	.406	0.93	0.42
1/16	1.59	7x7	1/8	3.18	.014	.356	.031	.787	1.18	0.53
1/16	1.59	7x19	3/32	2.38	.012	.305	.016	.406	0.93	0.42
1/16	1.59	7x19	1/8	3.18	.014	.356	.031	.787	1.18	0.53
3/32	2.38	7x7	1/8	3.18	.014	.356	.016	.406	1.85	0.84
3/32	2.38	7x7	5/32	3.97	.016	.406	.031	.787	2.18	0.99
3/32	2.38	7x19	1/8	3.18	.014	.356	.016	.406	1.99	0.90
3/32	2.38	7x19	5/32	3.97	.016	.406	.031	.787	2.32	1.05
1/8	3.18	7x19	3/16	4.76	.018	.457	.031	.787	3.62	1.64
5/32	3.97	7x19	7/32	5.56	.018	.457	.031	.787	6.10	2.77
5/32	3.97	7x19	9/32	7.14	.022	.559	.063	1.60	7.51	3.41
3/16	4.76	7x19	1/4	6.35	.018	.457	.031	.787	7.75	3.51
3/16	4.76	7x19	5/16	7.94	.022	.559	.063	1.60	9.20	4.17
7/32	5.56	7x19	9/32	7.14	.020	.508	.031	.787	9.76	4.43
7/32	5.56	7x19	11/32	8.87	.024	.610	.063	1.60	11.55	6.54
1/4	6.35	7x19	5/16	7.94	.020	.508	.031	.787	12.30	5.58
1/4	6.35	7x19	3/8	9.52	.024	.610	.063	1.60	14.42	6.54
9/32	7.14	7x19	13/32	10.3	.024	.610	.063	1.60	16.18	7.34
5/16	7.94	7x19	7/16	11.11	.024	.610	.063	1.60	19.80	8.98
3/8	9.52	7x19	1/2	12.7	.027	.686	.063	1.60	27.20	12.34

SERIES FAA SPECIFICATIONS

Composition B - Corrosion Resistant Steel

Construction and Dimensional Properties of Type II, Composition B

Nominal Diameter Of Wire Rope		Construction	Outside Diameter Of Jacket		Tolerance On Jacket O.D. (Plus Only)		Jacket Wall Thickness (Reference)		Approximate Weight Per 100 Feet	
in	mm		in	mm	in	mm	in	mm	lbs.	kg
1/32	.79	3x7	3/64	1.19	.008	.203	.008	.203	0.22	0.10
3/64	1.19	3x7	1/16	1.59	.010	.254	.008	.203	0.43	0.19
3/64	1.19	7x7	1/16	1.59	.010	.254	.008	.203	0.49	0.22
3/64	1.19	7x7	5/64	2.00	.012	.305	.016	.406	0.76	0.34
1/16	1.59	7x7	3/32	2.38	.012	.305	.016	.406	0.93	0.42
1/16	1.59	7x7	1/8	3.18	.014	.356	.031	.787	1.18	0.53
1/16	1.59	7x19	3/32	2.38	.012	.305	.016	.406	0.93	0.42
1/16	1.59	7x19	1/8	3.18	.014	.356	.031	.787	1.18	0.53
3/32	2.38	7x7	1/8	3.18	.014	.356	.016	.406	1.85	0.84
3/32	2.38	7x7	5/32	3.97	.016	.406	.031	.787	2.18	0.99
3/32	2.38	7x19	1/8	3.18	.014	.356	.016	.406	1.99	0.90
3/32	2.38	7x19	5/32	3.97	.016	.406	.031	.787	2.32	1.05
1/8	3.18	7x19	3/16	4.76	.018	.457	.031	.787	3.62	1.64
5/32	3.97	7x19	7/32	5.56	.018	.457	.031	.787	6.10	2.77
5/32	3.97	7x19	9/32	7.14	.022	.559	.063	1.60	7.51	3.41
3/16	4.76	7x19	1/4	6.35	.018	.457	.031	.787	7.75	3.51
3/16	4.76	7x19	5/16	7.94	.022	.559	.063	1.60	9.20	4.17
7/32	5.56	7x19	9/32	7.14	.020	.508	.031	.787	9.76	4.43
7/32	5.56	7x19	11/32	8.87	.024	.610	.063	1.60	11.55	6.54
1/4	6.35	7x19	5/16	7.94	.020	.508	.031	.787	12.30	5.58
1/4	6.35	7x19	3/8	9.52	.024	.610	.063	1.60	14.42	6.54
9/32	7.14	7x19	13/32	10.3	.024	.610	.063	1.60	16.18	7.34
5/16	7.94	7x19	7/16	11.11	.024	.610	.063	1.60	19.80	8.98
3/8	9.52	7x19	1/2	12.7	.027	.686	.063	1.60	27.20	12.34

* Denotes Stock Item.

When ordering: List diameter, construction and Part No.



PHOSPHOR BRONZE CABLE AND WIRE ROPE

SPECIFICATIONS							
		6 x 7		7 x 7		6 x 12	
Diameter in	mm	Break Str. Lbs.	Wgt. M/Ft.	Break Str. Lbs.	Wgt. M/Ft.	Break Str. Lbs.	Wgt. M/Ft.
1/32	.8	40	1.8	43	2		
3/64	1.2	85	4.1	90	4.4		
1/16	1.6	150	7	170	8.5		
3/32	2.5	340	16	375	18		
1/8	3.2	600	28	660	32		
5/32	4	910	44	1,000	48		
3/16	5	1,320	63	1,450	70		
1/4	6.5	2,280	106			1,470	73
5/16	8	3,520	170			2,270	117
3/8	9.5	5,000	235			3,230	170
7/16	11	6,750	322			4,380	230
1/2	12.7	8,680	420			5,650	290
9/16	14.3	10,800	≈ 530			7,100	370
5/8	15.9	13,200	656			8,740	460
3/4	19.1	18,900	945			12,250	660
		6 x 19		7 x 19		6 x 42	
3/32	2.5					190	12.5
1/8	3.2	615	29	660	35	335	20
5/32	4	915	46				
3/16	5	1,370	66	1,470	70	760	45
1/4	6.5	2,380	112	2,560	124	1,350	80
5/16	8	3,670	175	3,950	195	2,070	120
3/8	9.5	5,240	252	5,600	270	2,960	180
7/16	11	7,080	343			4,020	240
1/2	12.7	9,210	450			5,190	305
9/16	14.3	11,500	570			6,500	390
5/8	15.9	14,150	700			8,000	480
3/4	19.1	19,960	1,010			11,400	690
		8 x 19					
1/4	6.5	2,050	101				
5/16	8	3,160	157				
3/8	9.5	4,510	226				
7/16	11	6,060	310				
1/2	12.7	8,100	403				
9/16	14.3	9,890	509				
5/8	15.9	12,500	630				



W.J. KEATING LIMITED

PLASTIC COATED CABLES

All sizes and constructions available coated with nylon, vinyl, polyethylene, polypropylene, polyurethane, teflon, hytrel or any plastic required.

INNER CABLE Diameter in Inches	Construction			Outside Diameter Of Coating											
	1 x 19	7 x 7	7 x 19	1/16	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8	7/16	1/2	9/16
3/64	•	•		•	•	•									
1/16	•	•	•		•	•									
3/32	•	•	•			•	•	•							
1/8	•	•	•				•	•	•	•					
5/32	•	•	•					•	•	•					
3/16	•	•	•							•		•			
7/32	•	•	•								•	•	•		
1/4	•	•	•								•	•			
9/32	•	•	•									•	•		
5/16	•	•	•									•	•		
3/8	•	•	•										•	•	
7/16	(6x19IWRC)		•											•	
1/2	(6x19IWRC)		•												•



Listed above are the standard sizes and constructions of Galvanized Aircraft cables and Stainless Steel cables that are available plastic coated.

Each size and construction is available coated to the outside diameter noted.

Each size and construction is available in any of the plastic compounds listed above.

TILLER CABLE AND OTHER MARINE CABLES

New LOLON® coated tiller cable. Other popular types listed below. Reels of 250, 500, and 1,000 ft. individually boxed. 2,500, 5,000 and 10,000 ft. reels (bulk) are most economical.

GALVANIZED TILLER CABLE, VINYL COATED AND LOLON® "B" COATED SPECIFICATIONS

MANUFACTURED TO EXCEED BIA SPECS.

Dia.	Const.	O.D. of Coating	Type of Plastic	Part No.	Standard Packaging
3/32	7x7	3/16	Vinyl	GT 0947703 *	BULK
3/32	7x7	3/16	Vinyl	GT 0947703 *	1000'
3/32	7x7	3/16	Vinyl	GT 0947703 *	500'
3/32	7x7	3/16	Vinyl	GT 0947703 *	250'
3/32	7x7	3/16	Lolon "B"	GT 0947705 *	BULK
3/32	7x7	3/16	Lolon "B"	GT 0947705 *	1000'
3/32	7x7	3/16	Lolon "B"	GT 0947705 *	500'
3/32	7x7	3/16	Lolon "B"	GT 0947705 *	250'

* Denotes Stock Item.

Breaking Strength 920 lbs.

NOTE: Tiller cable coated with Lolon® "B" meets BIA specification.

(Copy of specification sent on request.)



STAINLESS STEEL 7 x 7 CONSTRUCTION COATED WITH WHITE VINYL (90 DUROMETER)

For Yacht Life Lines, Luff Wires, Etc.

Inner Cable Diameter	O.D. of Coat.	Breaking Strength in Lbs.	Weight Per M/Fl.	Part No. (White)
1/16	1/8	480	13.5	SC 0637701 *
3/32	1/8	920	20	SC 0947701 *
1/8	7/32	1,700	39	SC 1257708 *
1/8	1/4	1,700	51	SC 1257712 *
3/16	1/4	3,700	75	SC 1887701 *
3/16	5/16	3,700	90	SC 1887702 *
3/16	3/8	3,700	112	SC 1887703 *
3/16	7/16	3,700	141	SC 1887704
1/4	3/8	6,100	144	SC 2507701

In addition to the above, W.J.Keating supplies the marine trade with cable for standing rigging, running rigging, steering, life lines, hand rails, luff cable, center board cables, fishing leaders, trolling strand, down rigger cable or any other cables used on boats.



W.J. KEATING LIMITED

K-KORE® AND K-FLEX® CABLE LOOS PATENT NO. 4,034,547 THE CABLE "WITH THE ARAMIDDLE®"

LIGHTER, STRONGER AND LESS EXPENSIVE IN SMALLER DIAMETERS

SPECIFICATIONS

STAINLESS K-KORE® DESIGNED FOR STANDING RIGGING OR GUYING APPLICATIONS

Diameter in in mm	Breaking Strength in Pounds	Weight in Lbs. Per M/Ft.	Part No.
1/16 1.6	600	6	SK 06312
3/32 2.5	1,400	15	SK 09412*
1/8 3.2	2,500	25	SK 12512*
5/32 4	3,900	40	SK 15612*
3/16 5	5,600	55	SK 18812*
7/32 5.5	7,500	75	SK 21912
1/4 6.5	9,800	95	SK 25012*
9/32 7.5	11,800	120	SK 28112
5/16 8	15,000	150	SK 31312*
3/8 9.5	21,000	210	SK 37512

K-Kore® and K-Flex® Cables can be satisfactorily terminated with Castlok® Terminals. For more information on Castlok® write for Cable and Hardware Tools Catalog No. 81H.



K-KORE®

STAINLESS K-FLEX® CABLE FOR RUNNING RIGGING OR APPLICATIONS REQUIRING FLEXIBILITY

Diameter in in mm	Breaking Strength in Pounds	Weight in Lbs. Per M/Ft.	Part No.
3/32 2.5	1,100	12	SK 09462*
1/8 3.2	2,100	20	SK 12562*
5/32 4	3,900	35	SK 15662
3/16 5	4,400	45	SK 18862
7/32 5.5	5,500	75	SK 21962
1/4 6.5	7,300	80	SK 25062

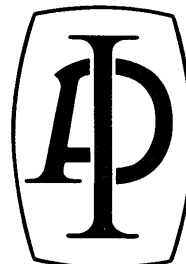
GALVANIZED K-FLEX® CABLE FOR WINCHES OR APPLICATIONS REQUIRING FLEXIBILITY

Diameter in in mm	Breaking Strength in Pounds	Weight in Lbs. Per M/Ft.	Part No.
3/32 2.5	1,100	12	GK 09462
1/8 3.2	2,400	20	GK 12562*
5/32 4	3,300	35	GK 15662*
3/16 5	4,800	45	GK 18862*
7/32 5.5	6,000	75	GK 21962
1/4 6.5	8,000	80	GK 25062

TORPEDO LINES

Torpedo Lines are used by the petroleum and mining industries for lowering recording instruments or explosives into wells or drillings. Torpedo Lines are manufactured to meet API Specification 9A, (For Wire Rope) Section 7 (For Torpedo Lines), 22nd Edition dated January 1976.

Torpedo Lines are supplied in two constructions (see below) and are available in improved plow steel drawn — galvanized wire only. They are right lay, regular lay and preformed. Both constructions are available packaged in any multiple of 500 feet as specified in API 9A Section 7.9.



SPECIFICATIONS

5 x 5 CONSTRUCTION

Diameter in Inches	Diameter in Millimeters	Breaking Strength in Lbs.	Wgt. M/ft.	Part No.
1/8	3.2	1,290	22.1	GC 12555
9/64	3.5	1,620	28	GC 14155*
5/32	4	2,000	34.6	GC 15655
3/16	5	2,860	49.8	GC 18855
1/4	6.5	5,030	88.6	GC 25055
5/16	8	7,790	138	GC 31355

5 x 7 CONSTRUCTION

Diameter in Inches	Diameter in Millimeters	Breaking Strength in Lbs.	Wgt. M/ft.	Part No.
1/8	3.2	1,400	23.9	GC 12557
9/64	3.5	1,760	30.2	GC 14157
5/32	4	2,170	37.3	GC 15657
3/16	5	3,110	53.8	GC 18857
1/4	6.5	5,470	95.5	GC 25057
5/16	8	8,490	149	GC 31357

* Denotes Stock Item.



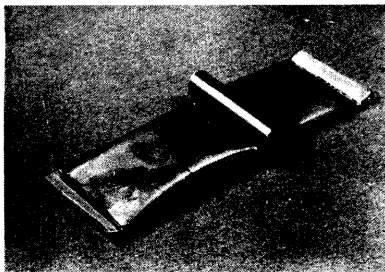
W.J. KEATING LIMITED

CASTLOK[®] wire rope terminals

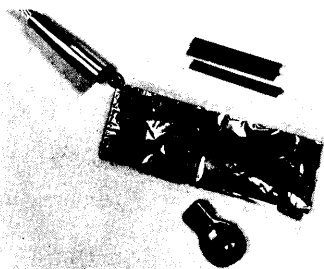
Triumph of advanced resin technology, totally new terminal simplicity.

HOW DOES IT WORK?

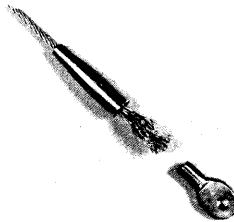
The Castlok[®] terminal has been made possible by the advances of modern resin technology. The unlaidd rope end is locked into a cast resin plug, which grips the entire surface of each separate wire. This provides an enormous gripping surface rather than a number of pressure points (which tend to weaken the wire) as in most other terminals. The plug and chamber are conical, with a predetermined angle of taper, so that the harder the cable is pulled, the more tightly the wires are gripped. The "coke bottle" shape of the unlaidd wires resists any tendency to pull by unscrewing since the inner wires are spiralled oppositely to the outer wires, the result is the strongest, simplest to use, most durable terminal ever designed.



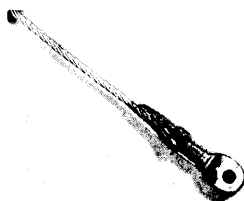
The Castlok fitting, resin and complete instructions are packaged in a Poly Pack bag. If you do not plan to assemble Castlok within a short period, we recommend you refrigerate our resin.



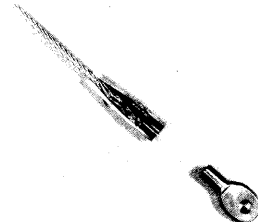
Inject resin into the threaded opening until the sleeve is filled to the top of the threads.



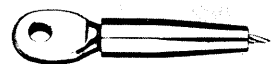
Push the cable through the narrow end of the sleeve, expose 2 to 3 inches of wire beyond the end. Unlay the strands for approximately 3/4" turn.



Screw the stud into the sleeve to the end of the thread. This forces the resin into and around the cable and locks the threads into place. (As shown in cutaway.)



Retract cable into sleeve until the end is at the bottom of the threads. (As shown in cutaway.)



Results! A termination capable of holding the breaking strength of the cable, accomplished in a few minutes without special tools.

WRITE FOR COMPLETE BROCHURE



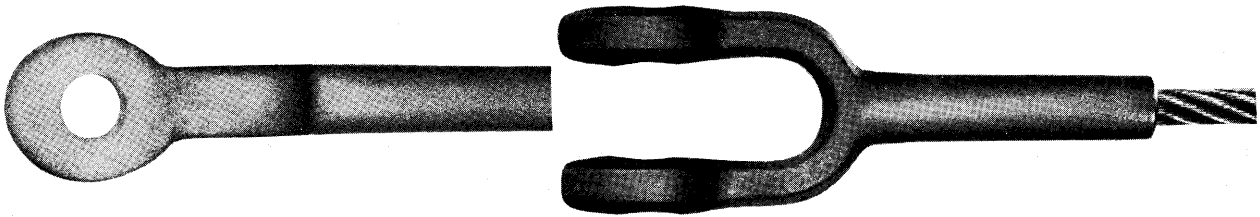
W.J. KEATING LIMITED

WIRE ROPE ASSEMBLIES & FITTINGS

SWAGED TERMINALS COMMERCIAL STANDARD

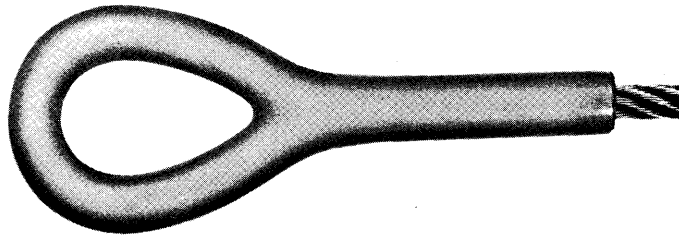
Jaw End K-1087

Available in Carbon Steel or Stainless Steel.



Eye End K-1088

Available in Carbon Steel or Stainless Steel.



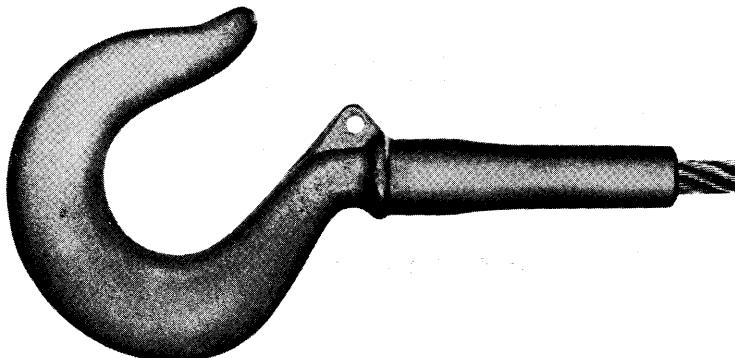
Rod End K-1089

Available in Carbon Steel or Stainless Steel.



Hook End K-1090

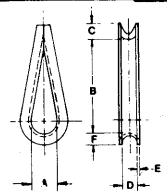
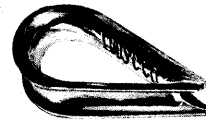
Available in Carbon Steel only. Also available with safety latch.





AN 100 THIMBLES SPECIFICATIONS

To Fit Cable Dia. in Inches	Cold Rolled Steel Zinc Plated Loos Part No.	Stainless Steel Loos Part No.	Dimensions						Wt. Per 1,000
			A	B	C	D	E	F	
3/64-1/16-5/64-3/32	AN 100-3 *	AN 100-C3 *	.350	43/64	3/16	3/32	.032	5/64	1.5
3/32-7/64-1/8	AN 100-4 *	AN 100-C4 *	.350	45/64	7/32	9/64	.032	5/64	4.3
5/32	AN 100-5 *	AN 100-C5 *	.400	51/64	7/32	11/64	.032	7/64	6
3/16	AN 100-6 *	AN 100-C6 *	.500	1	5/16	13/64	.032	11/64	9.8
7/32-1/4	AN 100-8 *	AN 100-C8 *	.700	1-13/32	13/32	17/64	.032	11/64	15
9/32-5/16	AN 100-10*	AN 100-C10*	.900	1-51/64	7/16	21/64	.040	7/32	35
3/8	AN 100-12*	AN 100-C12*	1.000	2	5/8	25/64	.060	17/64	85

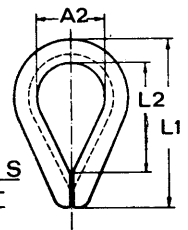


AN thimbles come in either cold-rolled steel (zinc plated) or stainless steel (natural finish). Fit cable diameters from 1/16" to 3/8" to meet the most demanding marine, aircraft or industrial requirements. AN Thimbles meet all Military Specifications.

TYPE 316, HEAVY DUTY STAINLESS STEEL THIMBLES SPECIFICATIONS

Part No.	To Fit Cable Dia.	A1	A2	B	L1	L2	Thickness Comparison		Weight Each and Comparison	
							Heavy Duty (S)	AN Type (E)	Heavy Duty	AN Type
090-0546	3/32"	.118	.393	.196	.866	.590	.039	.032"	.44	.43
090-0412	1/8"	.157	.393	.255	.984	.629	.047	.032"	.88	.43
090-0430	5/32"	.196	.472	.295	1.062	.708	.047	.032"	1.1	.6
090-0458	3/16"	.236	.511	.334	1.259	.826	.059	.032"	2.2	.98
090-0476	1/4"	.275	.590	.393	1.496	1.023	.059	.032"	2.64	1.5
090-0494	9/32"	.314	.748	.433	1.771	1.220	.078	.040"	4.4	3.5
090-0519	5/16"	.354	.866	.511	1.968	1.456	.078	.040"	5.94	3.5
090-0537	3/8"	.393	.944	.551	2.283	1.614	.098	.060"	8.8	8.5
090-0555	1/2"	.551	1.141	.669	2.755	2.047	.118		16.28	

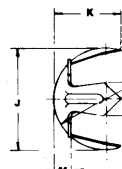
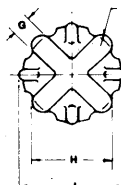
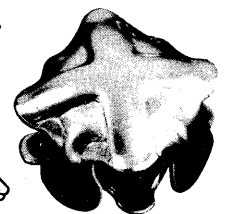
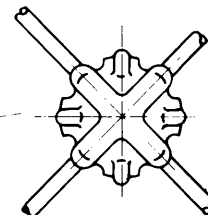
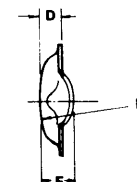
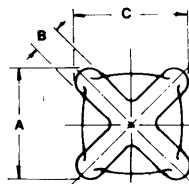
NOTE: EY 18-3 will fit 1/16" Wire Rope, EY 18-6 will fit 7/32" Wire Rope



NET CLIPS SPECIFICATIONS

NET CLIPS were designed specifically for use on steel cables. They are used by the U.S. Navy and Coast Guard to fabricate safety nets and have found wide acceptance whenever wire rope nets are needed. The one size available will accept "cross-overs" of 7 x 7 or 7 x 19 construction cable in unjacketed cable diameters of 5/32, 3/16, and 1/4". Jacketed cables with outside diameters of 5/32, 3/16, 1/4, and 5/16" can also be used. Net clips are available in Heavy Zinc Plated Carbon Steel and Stainless Steel. Order by Part Number.

Part No.	Description	Wt. Per M Sets
089-3705	Galvanized Steel Net Clip	44.5 lbs.
089-3723	Stainless Steel Net Clip	44.5 lbs.



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
15/16	1/4	15/16	3/16	1-1/8R	9/32	1/4	15/16	1-3/16	1-3/16	3/4	7/16	3/16	1-1/8R	1/2

TOOL TO APPLY NET CLIPS — PART NO. 1-N WEIGHT EACH 10 LBS.

*Denotes Stock Item.

When ordering: Specify Loos Part No. and diameter of cable hardware is to fit.

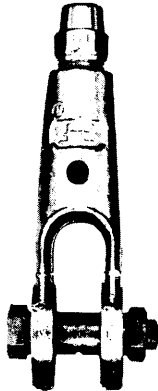


W.J. KEATING LIMITED

FORGED FITTINGS

CLEVIS SOCKET ASSEMBLY

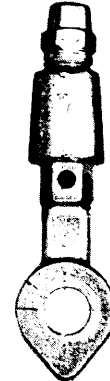
ROPE SIZE	WEIGHT
1/4	.54
5/16	.76
3/8	1.10
7/16	1.90
1/2	2.60
5/8	4.40
3/4	7.40
7/8	11.00
1	15.80
1 1/8	19.80
1 1/4	28.35
1 3/8	49.94
1 1/2	49.98



K-5042

EYE SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
1/4	.37
5/16	.52
3/8	.70
7/16	1.2
1/2	1.7
5/8	2.1
3/4	4.7
7/8	7.7
1	11.3



K-5038

STUD SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
1/4	.51
5/16	.65
3/8	1.0
7/16	1.8
1/2	2.0
5/8	3.6
3/4	6.2
7/8	9.1
1	13.5
1 1/8	30.63
1 1/4	32.40
1 3/8	55.72
1 1/2	55.33



K-5043

OVAL EYE SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
1/4	.61
5/16	.76
3/8	.98
7/16	1.58
1/2	2.28
5/8	3.20
3/4	6.29
7/8	11.91
1	16.03
1 1/8	23.34
1 1/4	34.00



K-5039

OVAL EYE SWIVEL SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
1/8	.21
3/16	.37
1/4	.63

K-5044



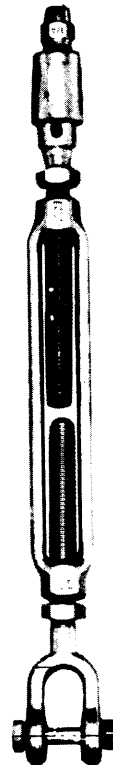
AVAILABLE IN SELF-COLOURED STEEL OR GALVANIZED



OPEN BODY CLEVIS AND SOCKET TURNBUCKLE

Also Available as Double Socket Turnbuckle...Factory Quote

ROPE SIZE	TAKEUP	WEIGHT
1/4	6"	2.11
1/4	9"	2.44
1/4	12"	2.75
5/16	6"	2.36
5/16	9"	2.69
5/16	12"	3.00
3/8	6"	3.09
3/8	9"	3.61
3/8	12"	4.13
7/16	6"	4.69
7/16	9"	5.44
7/16	12"	6.13
1/2	6"	4.69
1/2	9"	5.44
1/2	12"	6.13
5/8	12"	9.38
5/8	18"	11.46
3/4	18"	25.55
3/4	24"	29.35
7/8	18"	27.30
7/8	24"	31.10
1	18"	40.70
1	24"	45.90
1 1/8	18"	72.62
1 1/8	24"	79.62
1 1/4	18"	74.39
1 1/4	24"	81.39
1 3/8	24"	121.02
1 1/2	24"	123.63



K-5045

COUPLING ASSEMBLY



K-5046

ROPE SIZE	WEIGHT
1/16	.085
1/8	.160
3/16	.235
1/4	.417
5/16	.625
3/8	.750
7/16	1.500
1/2	2.062
5/8	3.750
3/4	6.000
7/8	10.330
1	17.000



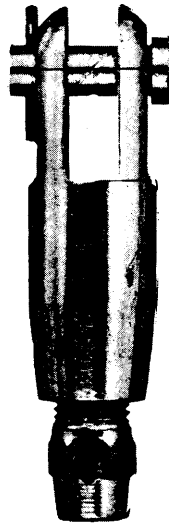
W.J. KEATING LIMITED

MACHINED FITTINGS

AVAILABLE IN STEEL, OR CADMIUM PLATED STEEL
STAINLESS STEEL OR BRONZE

CLEVIS SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
$\frac{1}{16}$	.0781
$\frac{1}{8}$	.125
$\frac{3}{16}$	.218
$\frac{1}{4}$	.438 .625
$\frac{5}{16}$	.625
$\frac{3}{8}$	.875
$\frac{7}{16}$	1.5
$\frac{1}{2}$	2



K-5066

EYE SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
$\frac{1}{16}$	.0625
$\frac{1}{8}$	.109
$\frac{3}{16}$	.203
$\frac{1}{4}$	.375
$\frac{5}{16}$	.5
$\frac{3}{8}$	.75
$\frac{7}{16}$	1.375
$\frac{1}{2}$	1.75



K-5067

STUD SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
$\frac{1}{16}$	.047
$\frac{1}{8}$	.094
$\frac{3}{16}$	.203
$\frac{1}{4}$	.5
$\frac{5}{16}$	.812
$\frac{3}{8}$	1.125
$\frac{7}{16}$	1.8
$\frac{1}{2}$	2.0



K-5068

OVAL EYE SWIVEL SOCKET ASSEMBLY

ROPE SIZE	WEIGHT
$\frac{7}{16}$	2.23
$\frac{1}{2}$	2.32
$\frac{5}{8}$	5.49
$\frac{3}{4}$	10.06
$\frac{7}{8}$	11.02
1	16.87
$1\frac{1}{8}$	32.91
$1\frac{1}{4}$	38.93
$1\frac{3}{8}$	92.67
$1\frac{1}{2}$	96.93



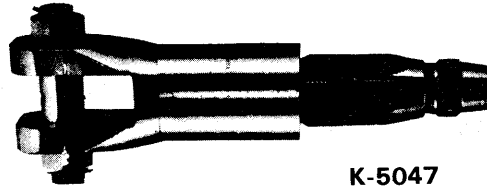
K-5069



ROLLER BEARING SWIVELS

CLEVIS AND SOCKET

ROPE SIZE	S.W.L. TONS	WEIGHT
5/16	1 1/2	4.19
3/8	2	4.25
7/16	3	7.19
1/2	3	7.25
5/8	5	15.87
3/4	8 1/2	19.62
7/8	10	27.87
1	15	40.31



K-5047

EYE AND EYE

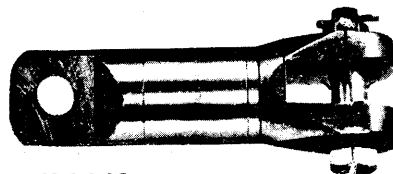
ROPE SIZE	S.W.L. TONS	WEIGHT
5/16	1 1/2	2.75
3/8	2	2.87
7/16	3	7.12
1/2	3	7.00
5/8	5	15.25
3/4	8 1/2	20.62
7/8	10	26.75
1	15	37.62



K-5048

EYE AND CLEVIS

ROPE SIZE	S.W.L. TONS	WEIGHT
5/16	1 1/2	3.56
3/8	2	4.37
7/16	3	9.00
1/2	3	8.43
5/8	5	19.43
3/4	8 1/2	23.27
7/8	10	31.00
1	15	44.75



K-5049

NEEDLE THRUST BEARING SWIVELS

Round Nose Type – No Projecting Pins

CLEVIS AND SOCKET

ROPE SIZE	S.W.L. TONS	WEIGHT
1/8	1/2	.390
3/16	5/8	.535
1/4	3/4	.810



K-5065