WIRE ROPE

KONDOTEC

KONDOTEC コンドーテック株式会社

KONDOTEC

KONDOTEC INTERNATIONAL (THAILAND) CO., LTD (Founded 2012)

1-7 Zuellig House Unit 302 3rd Floor
Silom Road Silom Bangrak Bangkok
Thailand 10500
Tel : +66(0)2 236 5070-71
Fax : +66(0)2 236 5073

TAX ID : 0105555163079

www.kondotec-inter.com
www.kondotec.co.jp

KONDOTEC INC - HEADQUARTERS (Founded 1947)

2-90 Sakaigawa 2-chome
Nishi-ku Osaka
550-0024 Japan
Tel: +81 6 6582 9672
Fax: +81 6 6582 9674

Capital (Head Quarter) :	2,666.5 million yen (Around 888 million THB)
Capital (Thailand) :	102 million yen
Japan Representative :	Katsuhiko Kondo,President
Thailand Representative :	Soichi Furuta, President
Employee :	691 (as of March 2014)
Suppliers :	Ourself Factory and Around 5,000 companies both at home and abroad Wire Rope Cooperate Factory (Original equipment manufacturer : OEM)
Customers :	Dealers of Civil Construction material Do-it-yourself stores (DIY) Fabricator

KONDOTEC コンドーテック株式会社

PRODUCT

Environmental / Green Belt / Industrial Waste Materials
- Oil Absorbent
- Container Bag, Jumbo Bag
- Grating

Wire Rope / Lifting Equipments
- Wire Rope Clip
- Belt Sling

Hook / Ring / Shackle / Swivel

Scaffolding Material
- Form Tie (Seperator)
- Scaffolding Chain
- Scaffolding Clamp
- Bonjoint

Fabricate Material

Construction Material

Turnbuckles / Bolt / Fastener
- Architecure Turnbuckle
- High Tension Bolt & Nut(F10T)
- Eye Bolt & Eye Nut
- Anchor Bolt
- Railway Hook Anchor

Transport-Cargo Equipment / Chain / Shipping
- Lever Hoist
- Chain Sling, Chain
- Winch
- Power Lashing
- Load Binder
- Strecth Wrap Film
- Toe Lift Jack & Roller

Tools / Stainless Steel Product

Hardware for Wooden House/ Building Material

TECHNOLOGY, EQUIPMENT AND DEVELOPMENT POWER THAT KEEPS

KYUSHU FACTORY

KYUSHU FACTORY 1

JIS AUTHORIZATION FACTORY
ISO 9001 AUTHORIZATHION FACTORY
SCAFFOLDING AUTHORIZATION FACTORY

KYUSHU FACTORY 2 & 3

SHIGA FACTORY

JIS AUTHORIZATION FACTORY
ISO 9001 AUTHORIZATHION FACTORY

JIS AUTHORIZATION

KYUSHU FACTORY

- JIS A 5540 TURNBUCKLE FOR CONSTRUCTION
- JIS A 5541 TURNBUCKLE BODY FOR CONSTRUCTION
- JIS A 5542 TURNBUCKLE BOLT FOR CONSTRUCTION

SHIGA FACTORY

KANTO FACTORY

- JIS A 5540 TURNBUCKLE FOR CONSTRUCTION
- JIS A 5542 TURNBUCKLE BOLT FOR CONSTRUCTION

SAPPORO FACTORY

ADVANCING

KANTO FACTORY

JIS AUTHORIZATION FACTORY

IS0 9001 AUTHORIZATHION FACTORY

SAPPORO FACTORY

JIS AUTHORIZATION FACTORY

KANTO DISTRIBUTION CENTER

ISO 9001 REGISTRATION CERTIFICATION

〔REGISTRATION NO, JQA-QM4017〕

KYUSHU FACTORY

〔REGISTRATION NO.JQA-13365〕

SHIGA FACOTRY

〔REGISTRATION NO. JSQA 1230〕

KANTO FACTORY

〔REGISTRATION NO. RQ2117〕

SAPPORO FACTORY

PRODUCTION LINE FOR CHAIN

PRODUCTION LINE FOR TURNBUCKLE

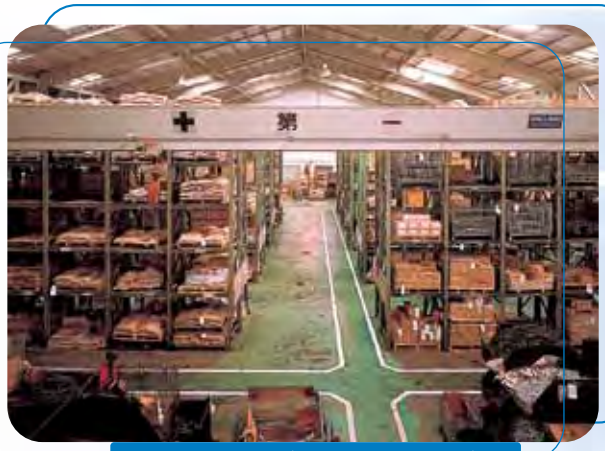
PRODUCTION LINE FOR DROP FORGED

PRODUCTION LINE FOR SEPARATOR

WE 'LL ANSWER CUSTOMER'S NEEDS BY HIGH QUALITY AND LOW COST

PRODUCTS, PRODUCTION LINE

PRODUCTION LINE FOR BRACE



STOCK YARD (FINAL PRODUCTS)

PRODUCTION LINE FIR STEEL PLATE OF CONSTRUCTION

STOCK YARD (MATERIAL)

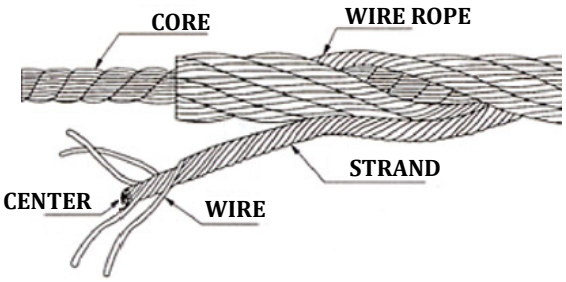
HIGH QUALITY & LOW COST

WIRE ROPES
FIBER ROPES
ROPE FITTINGS

GENERAL INFORMATION

WHAT IS WIRE ROPE

The right picture illustrates the component of a wire rope. In general, a wire rope consists of a number of wire strands formed helically about a central axis.



The most popular ropes have 6 or 8 strands supported by an axial member known as the core.

There are other constructions, but they are less common. Each strand is composed of a number of individual wires which have been formed helically about an axial member called the center.

This center supporting member of the strand is generally once or more wires, however, it may be natural fibers (cotton, hemp, sisal, etc) or synthetic fibers (rayon, nylon, polypropylene).

RAW MATERIALS

Ungalvanized (Bright) Steel Wire

Drawn Galvanized Steel Wire

Stainless Steel Wire

TENSILE STRENGTHS OF STEEL WIRE

Steel wire is made in various tensile strength to meet the different requirements of a particular job.
For the production of our ropes, we use wire in the following tensile strength ranges:

1470 N/mm2 (=150 kgf/ mm2)
1570 N/mm2 (=160 kgf/ mm2)
1770 N/mm2 (=180 kgf/ mm2)
1960 N/mm2 (=200 kgf/ mm2)
2160 N/mm2 (=220 kgf/ mm2)

JIS STANDARD : E type (E種) 1320 N/mm2
: G type (G種) 1470 N/mm2
: A type (A種) 1620 N/mm2
: B type (B種) 1770 N/mm2

In the U.S.A the various grades are designated as follows:

Traction Steel
Mild Plow Steel (MPS)
Plow Steel (PS)
Improved Plow Steel (IPS)
Extra Improved Plow Steel (EIPS)

The most common grades is “Improved Plow Steel”
Which comes nearest to our 1770 N/mm2 (=180 kgf/ mm2) tensile strength.

TENSILE GRADES

MANUFACTURING STANDARDS

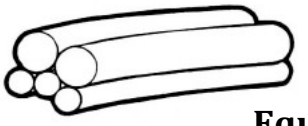
ISO	METRIC	AMERICAN
1960 N/mm2	200 kgf/ mm2	Extra Improved Plow Steel (EIPS)
1770 N/mm2	180 kgf/ mm2	Improved Plow Steel (IPS)
1570 N/mm2	160 kgf/ mm2	Plow Steel (PS)
1420 N/mm2	145 kgf/ mm2	Traction Steel

GENERAL INFORMATION

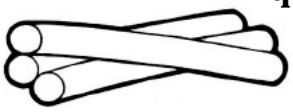
STRAND

Components of the strand

A strand consists of a strand core and a layer or a number of layers of round wires. The round wire are laid helically around the strand core. the stran core consists either of a wire (core wire) or a number of wires or even iber yarns.



Equal Lay



Cross Lay

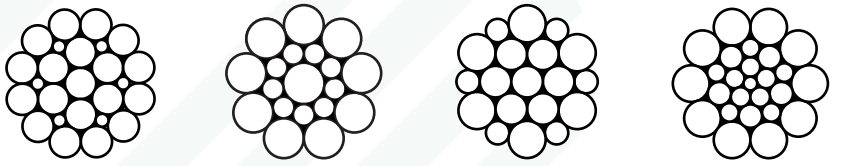
STRAND CONSTRUCTION

Two different types of laying the strand are Equal Lay and Cross Lay.

Strands with Equal Lay Wires

In these constructions, the pitches of various layers of wire are identical as stranding is carried out in a single operation, therefore, the contacts between wires are linear. Seale, Warrington and Filler strands belong to this construction. Wires of different diameters are required for these construction.

As For Example:
Seale : 9+9+1
Warrington : 6/6+6+1
Filler : 12+6F+6+1



Filler **Seale** **Warrington** **Warrington-Seale**

Strands with Cross Lay Wires

All the wires in this type of strand are of equal diameter and for geometrical reasons the number of wires decreases in each layer, starting from the outermost one, according to an arithmetical progression based on number (e.g. 16+10+3 or 18+12+6+1 or 12+6). In cross lay constructions, each layer of wire is laid up a seperate operation with a different length of lay, the result being the crossing of the various layers of wires. Consequently strong pressure occurs between the wires which may break, especially with variable with variable loads.

ROPE CORES

Ropes are supplied either with iber or steel core, the choice being largely dependent on the application.

Fiber Core

Fiber cores are mainly made from polypropylene. This material has the advantage that it neither absorbs nor retains moisture, and thus it eliminates conditions creating internal corrosion.
Polypropylene core will have small variations in size and weight and are less susceptible to damage, especially under moist conditions.

The following precautions must be taken during use:

- Do not use iber core ropes where these are exposed to high temperatures, i.e. above 90 degree, this will damage the iber core.
- The iber core ropes should not be used when multi-layer winding is required as the iber cores susceptible to crushing.

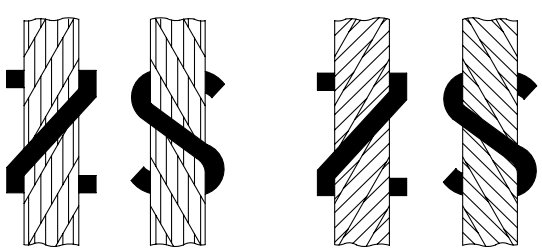
Steel Core

The steel core is designated IWRC (Independent Wire Rope Core) and normal construction is 7 x 7.
Steel core proves advantageous in severe working conditions involving a low factor of safety, small drums and sheaves, high operational speeds and wide leet angles. Steel core tends to preserve the circular cross-section of the rope when it is crushed by over - winding on drums. It also prevents the strands from bridging, (being forcibly against each other) which can result in fatigue failure of wires.

WIRE ROPE LAY

The direction of lay or rotation of the strands is normally right hand. But some machinery needs left hand lay.

R.H.O.L- Right Hand Ordinary Lay
R.H.L.L - Right Hand Lang's Lay
L.H.O.L - Left Hand Ordinary Lay
L.H.L.L - Left Hand Lang's Lay



R.H.O.L. L.H.O.L. R.H.L.L. L.H.L.L.

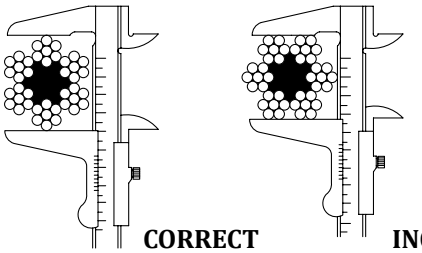
GENERAL INFORMATION

Diameter of Wire Ropes

The diameter of a wire rope is the diameter of circle which encloses all of the wires.
When measuring wire rope, it is important to take the greatest distance of the outer limits of the Crowns' of 2 opposite strands. A measurement across the valleys will result in incorrect lower readings.

Method of Measuring Diameter

Caliper, itted with jaws broad enough to cover not less than two adjacent strands (see picture)



CORRECT INCORRECT

Safety Factor of Wire Rope

It is dif icult to ix the safety factor for each type of wire rope to be used for various equipments, as this factor depends not only on the load carried, but also on the speed of rope working, the kinds of itting used for rope ends, the acceleration and deacceleration, length of rope, the number, size and arrangements of sheave and drums etc.
The following safety factor are minimum requirements for safety and economy in the common installation.

Ropes Characteristics

This chart is purely an attempt to illustrate the relative characteristics of different constructions of wire rope as indicated in the text.

No numerical scale is shown or intended.

PURPOSE	MINIMUM SAFETY FACTOR
ELEVATOR	10
CRANE, HOIST DERRICK, SLING	6
GUY OR STAY, HORIZONTAL PULL OR TRACTION	4
MAIN WIRE OF AERIAL ROPE WAY	3

WIRE ROPE APPLICATIONS

The following list of suggested contructions of wire rope for various applications is of course not exhaustive and, may often be modi ied the light of a particular machine manufacturer's advice or of local experience where unusual conditions may favor some variation from accepted practice elsewhere.

These suggestions should therefore be taken as a guide where no other guidance exists, or as possible alternatives where one construction has been found unsatisfactory.

		CONSTRUCTION		
		STRANDS	CORE	LAY
CRANES Incl. Clamshells	Derrick/Boom	6 x 19 Filler (6 x 25Fi)	IWRC	O or L
		6 x 36	IWRC	O or L
	Hoist (holding/closing)	6 x 19 Filler (6 x 25Fi)	IWRC	O
		6 x 36	IWRC	O
		18 x 7	FC or Strand	O or L
	Tag lines	6 x 19	FC	O
Tower Cranes	Hoist	6 x 19	FC or Strand	O or L
Dredgers	Boom Hoist	6 x 19 Filler (6 x 25Fi)	IWRC	O
	Swing	6 x 19 Filler (6 x 25Fi)	IWRC	O
	Ladder Hoist	6 x 19 Filler (6 x 25Fi)	IWRC	O
		6 x 36	IWRC	O or L
	Spud	6 x 19 Filler (6 x 25Fi)	IWRC	O
Drilling Rigs (Rotary)	Drilling Lines	6 x 19 Seale	IWRC	O
	Sand Coring Swabbing	6 x 7 Galv.	Poly	O
	Casing	6 x 19 Filler (6 x 25Fi)	IWRC or FC	O
Drilling Rigs (Percussion)	Drilling Lines	6 x 21 Filler, Generally Left Har	FC	O

GENERAL INFORMATION

Handling and Installation

MUST AVOID FOR LONGER LIFE OF ROPE

- Twist, loop or kink of wire rope.
- Moisture, dust and acid or sulphuric hume gas
- Overload
- Crushing or hammering
- Sever or reverse bending (S-Bending)
- Too small sheaves, drums and guide rollers.
- Hard rolling of sheaves and guide rollers.
- Worn groove, broken or soft sheaves and rollers.
- Poor or no lubrication.
- Heat in luence
- Wrong itting and spooling on the drum
- Excessive leet angle
- Vibration
- Obstacles, sand and grit on the surface of operation line
- Shock too fast or stop

How to order

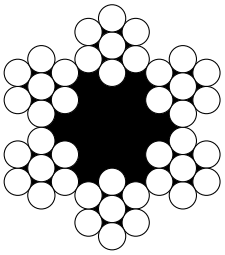
In ordering steel wire rope, you are requested to give us complete information as speci ied below :

1. Application	: Working condition, type of reprocessing.
2. Size	: Diameter of the rope in millimeters or inches.
3. Construction	: Number of strands, number of wires per strand and type of strand construction.
4. Type of core	: Fiber core (FC), Independent wire rope core (IWRC), or Independent wire strand core (IWSC)
5. Lay	: Right regular lay, left regular lay, right lang lay, left lang lay.
6. Preforming	: Preformed or not.
7. Material	: Bright (ungalvanized), galvanized or stainless steel.
8. Wire Grade	: Tensile strength of the wires
9. Breaking Load	: Minimum or calculated breaking load in tones or pounds.
10. Lubrication	: Whether lubrication is desired or not, and required lubricant.
11. Packing Length	: Length of wire rope per package.
12. Packing	: In coils wrapped with oil paper and hessian (or PP) cloth, or on wooden reels.
13. Quantity	: By number of coils or reels, by length or weight.
14. Speci ication	: Any recognized speci ication, if required.
15. Test Report	: Any format or ISO/IEC 17025 accredited test report.
16. Remarks	: Other requirements such as coating, swaging, armouring, shipping, etc.

Standard Steel Wire Rope

Steel Wire Rope

6 x 7 + FC

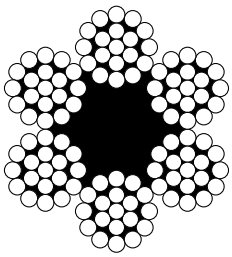


Usage:
Mining, Stay,
Logging, Tramway

6×7

Diameter mm	GB/T 8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670N/mm^2	1770N/mm^2		1670N/mm^2	1770N/mm^2	
2	2.21	2.35	1.40	2.35	2.60	1.38
3	4.98	5.28	3.16	5.29	5.86	3.11
4	8.87	9.40	5.62	9.40	10.40	5.52
5	13.80	14.60	8.77	14.70	16.30	8.63
6	19.90	21.10	12.60	21.20	23.40	12.40
7	27.10	28.70	17.20	28.80	31.90	16.90
8	35.40	37.60	22.50	37.60	41.60	22.10
9	44.90	47.50	28.40	47.60	52.70	27.90
10	55.40	58.70	35.10	58.80	65.10	34.50
11	67.00	71.10	42.50	71.10	78.70	41.70
12	79.80	84.60	50.50	84.60	93.70	49.70
13	93.70	99.30	59.30	99.30	110.00	58.30
14	108.00	115.00	68.80	115.00	128.00	67.60
16	141.00	150.00	89.90	150.00	167.00	88.30
18	179.00	190.00	114.00	190.00	211.00	112.00
20	221.00	235.00	140.00	235.00	260.00	138.00
22	268.00	284.00	170.00	284.00	315.00	167.00
24	319.00	338.00	202.00	338.00	375.00	199.00
26	374.00	397.00	237.00	397.00	440.00	233.00
28	434.00	460.00	275.00	461.00	510.00	270.00
32	567.00	601.00	359.00	602.00	666.00	353.00

6 x 19 + FC



Usage:
Mining, Stay,
Logging, Tramway

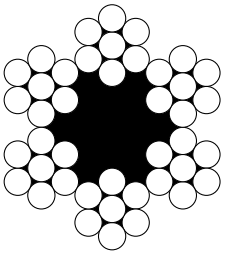
6×19

Diameter mm	GB/T 8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670N/mm^2	1770N/mm^2		1670N/mm^2	1770N/mm^2	
3	4.61	4.89	3.11	4.89	5.42	3.11
4	8.20	8.69	5.54	8.69	9.63	5.54
5	12.80	13.50	8.65	13.60	15.00	8.65
6	18.40	19.50	12.50	19.60	21.70	12.50
7	25.10	26.60	17.00	26.60	29.50	17.00
8	32.80	34.70	22.10	34.70	38.50	22.14
9	41.50	44.00	28.00	44.00	48.70	28.03
10	51.20	54.30	34.60	54.30	60.20	34.60
11	62.00	65.70	41.90	65.70	72.80	41.87
12	73.80	78.20	49.80	78.20	86.70	49.82
13	86.60	91.80	58.50	91.70	102.00	58.47
14	100.00	106.00	67.80	106.00	118.00	67.82
16	131.00	139.00	88.60	139.00	154.00	88.58
18	166 .00	176.00	112.00	176.00	195.00	112.00
20	205.00	217.00	138.00	217.00	241.00	138.00
22	248.00	263.00	167.00	263.00	291.00	167.00
24	295.00	312.00	199.00	312.00	347.00	199.00
26	346.00	367.00	234.00	367.00	407.00	234.00
28	401.00	426.00	271.00	426.00	472.00	271.00
32	524.00	556.00	354.00	556.00	616.00	354.00

Standard Steel Wire Rope

JIS Steel Wire Rope (JIS G3525-1998)

6 x 7 + FC

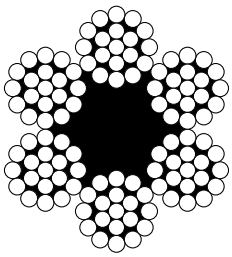


Usage:
Mining, Stay,
Logging, Tramway

6×7

Dia mm	Breaking Load		Approx Weight Kg/m
	GALV	UN-GALV	
	Grade G	Grade A	
	kN	kN	
6	19.0	21.4	0.134
8	33.8	38.1	0.237
9	42.8	48.2	0.300
10	52.8	59.5	0.371
12	76.0	85.6	0.534
14	103	117	0.727
16	135	152	0.950
18	171	193	1.20
20	211	238	1.48
22	256	288	1.80
24	304	343	2.14
26	357	402	2.51
28	414	466	2.91
30	475	535	3.34
32	541	609	3.80

6 x 19 + FC



Usage:
Mining, Stay,
Logging, Tramway

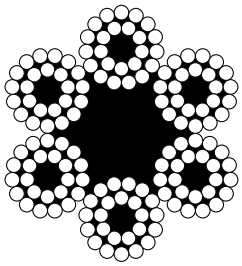
6×19

Dia mm	Breaking Load		Approx Weight Kg/m
	GALV	UN-GALV	
	Grade G	Grade A	
	kN	kN	
6	18.1	19.4	0.131
8	32.1	34.6	0.233
9	40.7	43.8	0.295
10	50.2	54.0	0.364
12	72.3	77.8	0.524
14	98.4	106	0.713
16	128	138	0.932
18	163	175	1.18
20	201	216	1.46
22	243	261	1.76
24	289	311	2.10
26	339	365	2.46
28	393	424	2.85

Standard Steel Wire Rope

Steel Wire Rope

6 x 24 + 7FC

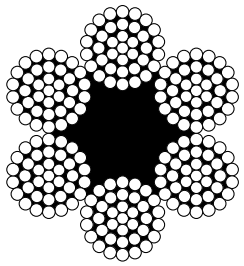


Usage:
Hoist, Marine,
General Engineering,
Lashing

6×24

Diameter mm	GB/T8918		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1570 N/mm2	1670 N/mm2	
8	28.10	29.90	20.40
9	35.60	37.80	25.80
10	43.90	46.70	31.80
11	53.10	56.50	38.50
12	63.30	67.30	45.80
13	74.20	79.00	53.70
14	86.10	91.60	62.30
16	112.00	119.00	81.40
18	142.00	151.00	103.00
20	175.00	187.00	127.00
22	212.00	226.00	154.00
24	253.00	269.00	183.00
26	297.00	316.00	215.00
28	344.00	366.00	249.00
32	450.00	478.00	326.00

6 x 37 + FC



Usage:
Mining, Stay,
Logging, Tramway

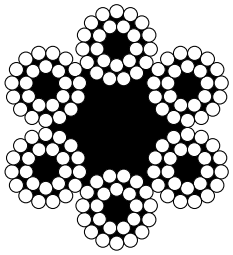
6×37

Diameter mm	GB/T8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2	
5	12.30	13.00	8.65	13.10	14.50	8.65
6	17.70	18.70	12.50	18.80	20.80	12.50
7	24.10	25.50	17.00	25.60	28.30	17.00
8	31.50	33.40	22.10	33.40	37.00	22.10
9	39.90	42.20	28.00	42.30	46.80	28.00
10	49.20	52.20	34.60	52.20	57.80	34.60
11	59.60	63.10	41.90	63.20	70.00	41.90
12	70.90	75.10	49.80	75.20	83.20	49.80
13	83.20	88.20	58.50	88.20	97.70	58.47
14	96.50	102.00	67.80	102.00	113.30	67.82
16	126.00	133.00	88.60	133.00	148.00	88.58
18	159.00	169.00	112.00	169.00	187.00	112.00
20	197.00	208.00	138.00	209.00	231.00	138.00
22	238.00	252.00	167.00	252.00	280.00	167.00
24	283.00	300.00	199.00	300.00	333.00	199.00
26	333.00	352.00	234.00	353.00	391.00	234.00
28	386.00	409.00	271.00	409.00	453.00	271.00
32	504.00	534.00	354.00	534.00	592.00	354.00

Standard Steel Wire Rope

JIS Steel Wire Rope (JIS G3525-1998)

6 x 24 + 7FC

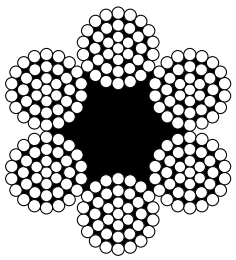


Usage:
Hoist, Marine,
General Engineering,
Lashing

6×24

Dia mm	Breaking Load		Approx Weight Kg/m
	GALV	UN-GALV	
	Grade G	Grade A	
	kN	kN	
6	16.5	17.7	0.120
8	29.3	31.6	0.212
9	37.1	39.9	0.269
10	45.8	49.3	0.332
12	65.9	71.0	0.478
14	89.7	96.6	0.651
16	117	126	0.850
18	148	160	1.08
20	183	197	1.33
22	222	239	1.61
24	264	284	1.91
26	309	333	2.24
28	359	387	2.60
30	412	444	2.99
32	469	505	3.40
36	593	639	4.30
40	732	789	5.31

6 x 37 + FC



Usage:
Mining, Stay,
Logging, Tramway

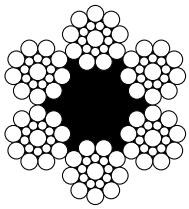
6×37

Dia mm	Breaking Load		Approx Weight Kg/m
	GALV	UN-GALV	
	Grade G	Grade A	
	kN	kN	
6	17.8	19.1	0.129
8	31.6	34.0	0.230
9	40.0	43.0	0.291
10	49.4	53.1	0.359
12	71.1	76.5	0.517
14	96.7	104	0.704
16	126	136	0.920
18	160	172	1.16
20	197	212	1.44
22	239	257	1.74
24	284	306	2.07
26	334	359	2.43
28	387	416	2.82
30	444	478	3.23
32	505	544	3.68
36	640	688	4.66
40	790	850	5.75
44	956	1030	6.96
48	1140	1220	8.28
52	1330	1440	9.72
56	1550	1670	11.3
60	1780	1910	12.9

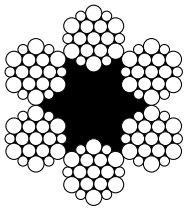
Standard Steel Wire Rope

Steel Wire Rope

6 x S(19) + FC



6 x W(19) + FC

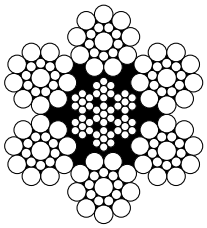


Usage:
Hoist,
General Engineering,
Crane

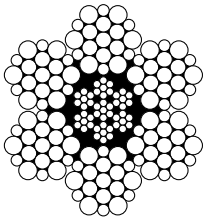
6 x S(19) + FC 6 x W(19) + FC

Diameter mm	GB/T8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2	
6	19.80	21.00	13.30	21.00	23.30	12.90
7	27.00	28.60	18.10	28.60	31.70	17.60
8	35.20	37.30	23.60	37.40	41.40	23.00
9	44.60	47.30	29.90	47.30	52.40	29.10
10	55.10	58.40	36.90	58.40	64.70	35.90
11	66.60	70.60	44.60	70.70	78.30	43.30
12	79.30	84.10	53.10	84.10	93.10	51.70
13	93.10	98.70	62.30	98.70	109.00	60.70
14	108.00	114.00	72.20	114.00	127.00	70.40
16	141.00	149.00	94.40	150.00	166.00	91.90
18	178.00	189.00	119.00	189.00	210.00	116.00
20	220.00	233.00	147.00	234.00	259.00	144.00
22	266.00	282.00	178.00	283.00	313.00	174.00
24	317.00	336.00	212.00	336.00	373.00	207.00
26	372.00	394.00	249.00	395.00	437.00	243.00
28	432.00	457.00	289.00	458.00	507.00	281.00
32	564.00	598.00	377.00	598.00	662.00	368.00

6 x S(19) + IWRC



6 x W(19) + IWRC



Usage:
Hoist,
General Engineering,
Crane

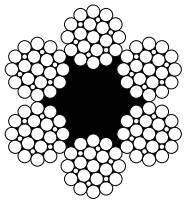
6 x S(19) + IWRC 6 x W(19) + IWRC

Diameter mm	GB/T8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2	
6	21.40	22.60	14.60	22.70	25.10	14.40
7	29.10	30.80	19.90	30.90	34.20	19.60
8	38.00	40.30	25.90	40.30	44.70	25.60
9	48.10	51.00	32.80	51.00	56.50	32.40
10	59.40	63.00	40.50	63.00	69.80	40.00
11	71.90	76.20	49.10	76.20	84.40	48.40
12	85.60	90.70	58.40	90.70	100.00	57.60
13	100.00	106.00	68.50	106.00	118.00	67.60
14	116.00	123.00	79.50	124.00	137.00	78.40
16	152.00	161.00	104.00	161.00	179.00	102.00
18	192.00	204.00	131.00	204.00	226.00	130.00
20	237.00	252.00	162.00	252.00	279.00	160.00
22	287.00	304.00	196.00	305.00	338.00	194.00
24	342.00	362.00	234.00	363.00	402.00	230.00
26	401.00	425.00	274.00	426.00	472.00	270.00
28	466.00	494.00	318.00	494.00	547.00	314.00
32	608.00	645.00	415.00	645.00	715.00	410.00

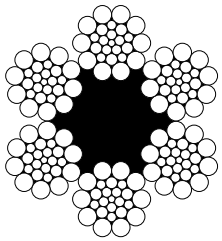
Standard Steel Wire Rope

Steel Wire Rope

6 x Fi(25) + FC



6 x WS(26) + FC

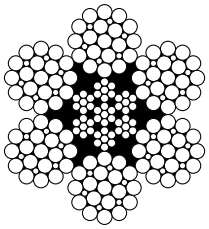


Usage:
Hoist,
General Engineering,
Crane

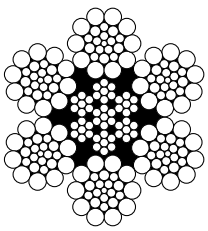
6 x Fi(25) + FC 6 x WS(26) + FC

Diameter mm	GB/T8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2	
6	----	----	----	21.00	23.30	12.90
7	----	----	----	28.60	31.70	17.60
8	----	----	----	37.40	41.40	23.00
9	----	----	----	47.30	52.40	29.10
10	----	----	----	58.40	64.70	35.90
11	----	----	----	70.70	78.30	43.30
12	79.30	84.10	54.70	84.10	93.10	51.70
13	93.10	98.70	64.20	98.70	109.00	60.70
14	108.00	114.00	74.50	114.00	127.00	70.40
16	141.00	149.00	97.30	150.00	166.00	91.90
18	178.00	189.00	123.00	189.00	210.00	116.00
20	220.00	233.00	152.00	234.00	259.00	144.00
22	266.00	282.00	184.00	283.00	313.00	174.00
24	317.00	336.00	219.00	336.00	373.00	207.00
26	372.00	394.00	257.00	395.00	437.00	243.00
28	432.00	457.00	298.00	458.00	507.00	281.00
32	564.00	598.00	389.00	598.00	662.00	368.00

6 x Fi(25) + IWRC



6 x WS(26) + IWRC



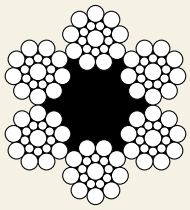
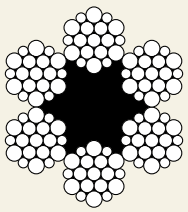
Usage:
Hoist,
General Engineering,
Crane

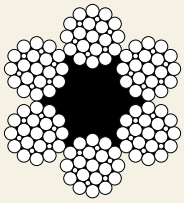
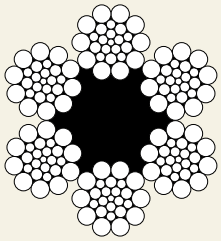
6 x Fi(25) + IWRC 6 x W(26) + IWRC

Diameter mm	GB/T8918			EN 12385-4		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2	
6	----	----	----	21.00	23.30	12.90
7	----	----	----	28.60	31.70	17.60
8	----	----	----	37.40	41.40	23.00
9	----	----	----	47.30	52.40	29.10
10	----	----	----	58.40	64.70	35.90
11	----	----	----	70.70	78.30	43.30
12	79.30	84.10	54.70	84.10	93.10	51.70
13	93.10	98.70	64.20	98.70	109.00	60.70
14	108.00	114.00	74.50	114.00	127.00	70.40
16	141.00	149.00	97.30	150.00	166.00	91.90
18	178.00	189.00	123.00	189.00	210.00	116.00
20	220.00	233.00	152.00	234.00	259.00	144.00
22	266.00	282.00	184.00	283.00	313.00	174.00
24	317.00	336.00	219.00	336.00	373.00	207.00
26	372.00	394.00	257.00	395.00	437.00	243.00
28	432.00	457.00	298.00	458.00	507.00	281.00
32	564.00	598.00	389.00	598.00	662.00	368.00

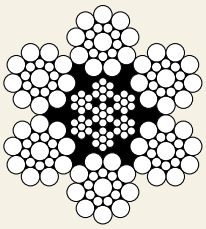
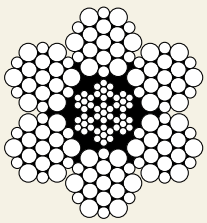
Standard Steel Wire Rope

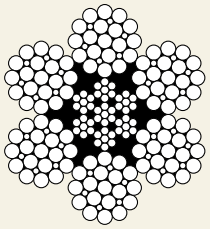
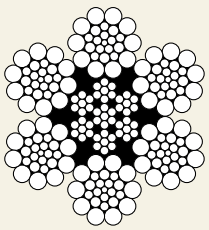
JIS Steel Wire Rope (JIS G3525-1998)

Construction	6×S (19)	6×W (19)
Section		

Construction	6×Fi (25)	6×WS (26)
Section		

Dia mm	Breaking Load GALV / UN-GALV Grade E kN	Grade A kN	Grade B kN	Approx Weight Kg/m
4	–	–	9.29	0.062
5	–	–	14.5	0.096
6	16.1	19.6	20.9	0.139
6.3	17.7	21.6	23.0	0.153
8	28.6	34.9	37.2	0.247
9	36.2	44.1	47.0	0.312
10	44.7	54.5	58.1	0.386
11.2	56.1	68.3	72.8	0.484
12	64.4	78.5	83.7	0.556
12.5	69.9	85.1	90.7	0.603
14	87.7	107	114	0.756
16	115	139	149	0.988
18	145	176	188	1.25
20	179	218	232	1.54
22.4	224	273	291	1.94
25	280	340	363	2.41
28	–	–	455	3.02
30	–	–	523	3.47
31.5	–	–	576	3.83
33.5	–	–	652	4.33
35.5	–	–	732	4.86
37.5	–	–	816	5.43
40	–	–	929	6.17

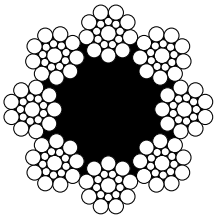
Construction	IWRC 6×S (19)	IWRC 6×W (19)
Section		

Construction	IWRC 6×Fi (25)	IWRC 6×WS (26)
Section		

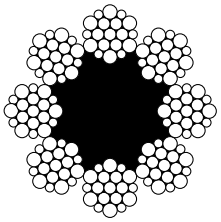
Dia mm	Breaking Load GALV / UN-GALV Grade B kN	Approx Weight Kg/m
10	66.2	0.430
11.2	83.0	0.539
12.5	103	0.672
14	130	0.843
16	169	1.10
18	214	1.39
20	265	1.72
22.4	332	2.16
25	414	2.69
28	519	3.37
30	596	3.87
31.5	657	4.27
33.5	743	4.83
35.5	834	5.42
37.5	931	6.05
40	1060	6.88

Steel Wire Rope

8 x S(19) + FC　　8 x W(19) + FC



8×S（19）

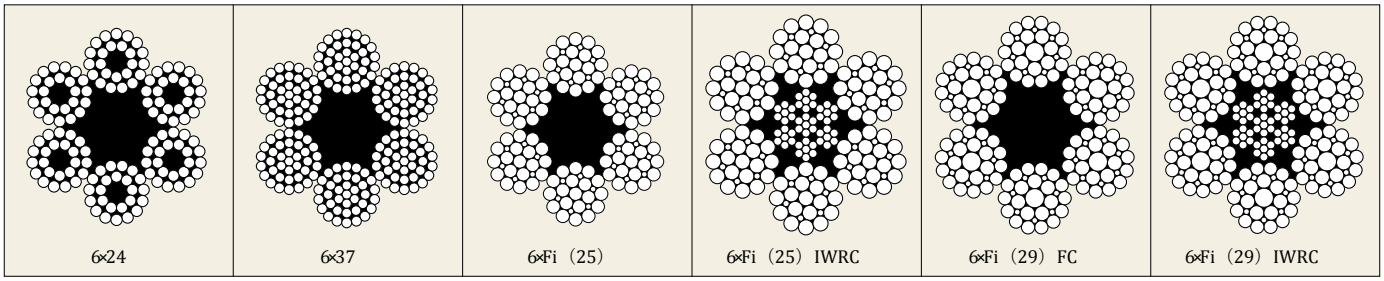


8×W（19）

Usage: Hoist, General Industry,
Sink, Boat Dragging

Diameter mm	GB/T 20118-2006 / GB 8918-2006			EN 12385-4			JIS G 3525-2006				
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Diameter mm	Min. Breaking Load (kN)			Approx. Weight (Kg/m)
	1670N/mm²	1770N/mm²		1770N/mm²	1960N/mm²			Ungalv./Galv.			
								E Type	A Type	B Type	
8	31.30	33.20	22.10	33.20	36.80	21.80	8.0	26.0	30.8	32.8	0.220
9	39.60	42.00	28.00	42.00	46.50	27.50	10.0	40.6	48.1	51.3	0.343
10	48.90	51.90	34.60	51.90	57.40	34.00					
11	59.20	62.80	41.90	62.80	69.50	41.10	11.2	51.0	60.3	64.3	0.430
12	70.50	74.70	49.90	74.70	82.70	49.00	12.0	58.5	69.2	73.8	0.494
13	82.70	87.60	58.50	87.60	97.10	57.50	12.5	63.5	75.1	80.1	0.536
14	95.90	102.00	67.90	102.00	113.00	66.60	14.0	79.6	94.3	100.0	0.672
16	125.00	133.00	88.70	133.00	147.00	87.00	16.0	104.0	123.0	131.0	0.878
18	159.00	168.00	112.00	168.00	186.00	110.00	18.0	132.0	156.0	166.0	1.110
20	196.00	207.00	139.00	207.00	230.00	136.00	20.0	162.0	192.0	205.0	1.370
22	237.00	251.00	168.00	251.00	278.00	165.00	22.4	204.0	241.0	257.0	1.720
24	282.00	299.00	199.00	299.00	331.00	196.00	25.0	254.0	301.0	320.0	2.140
26	331.00	351.00	234.00	351.00	388.00	230.00					
28	384.00	407.00	271.00	407.00	450.00	267.00					
32	501.00	531.00	355.00	531.00	588.00	348.00					

JIS WIRE ROPE　JIS G 3525-2006



6×24　6×37　6×Fi（25）　6×Fi（25）IWRC　6×Fi（29）FC　6×Fi（29）IWRC

Standard Steel Wire Rope

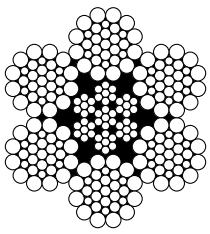
WIRE ROPE

6 x WS(31) + IWRC

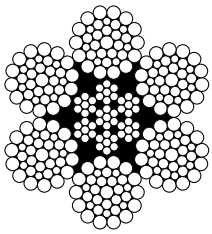
6 x WS(36) + IWRC

6 x WS(41) + IWRC

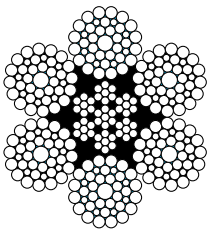
Diameter mm	GB / T 20118-2006 / GB 8918-2006			EN 12385-4			JIS G 3525-2006		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	mm	Breaking Load kN	kg/m
	1670 N/mm2	1770 N/mm2		1770 N/mm2	1960 N/mm2			Grade B	
8	38.00	40.30	26.80	40.30	44.70	26.20			
9	48.00	51.00	33.90	51.00	56.50	33.10	10.0	67.7	0.440
10	59.50	63.00	41.80	63.00	69.80	40.90	11.2	84.9	0.552
11	72.00	76.20	50.60	76.20	84.40	49.50	12.5	106.0	0.688
12	85.60	90.70	60.20	90.70	100.00	58.90	14.0	133.0	0.863
13	100.00	106.00	70.60	106.00	118.00	69.10	16.0	173.0	1.130
14	117.00	124.00	81.90	124.00	137.00	80.20	18.0	219.0	1.430
16	152.00	161.00	107.00	161.00	179.00	105.00	20.0	271.0	1.760
18	193.00	204.00	135.00	204.00	226.00	133.00	22.4	340.0	2.210
20	238.00	252.00	167.00	252.00	279.00	164.00	25.0	423.0	2.750
22	288.00	305.00	202.00	305.00	338.00	198.00	28.0	531.0	3.450
24	342.00	363.00	241.00	363.00	402.00	236.00	30.0	609.0	3.960
26	402.00	426.00	283.00	426.00	472.00	276.00	31.5	672.0	4.370
28	466.00	494.00	328.00	494.00	547.00	321.00	33.5	760.0	4.940
32	609.00	645.00	428.00	645.00	715.00	419.00	35.5	853.0	5.550
							37.5	952.0	6.190
							40.0	1080.0	7.040
							42.5	1220.0	7.950
							45.0	1370.0	8.910
							47.5	1530.0	9.930
							50.0	1690.0	11.000
							53.0	1900.0	12.400
							56.0	2120.0	13.800
							60.0	2440.0	15.800



6 x WS(31) + IWRC



6 x WS(36) + IWRC



6 x WS(41) + IWRC

Usage: Well Drilling, Hoist, General Industry,

Crane, Construction Machine, Mine Lifting,

High-furnace Hoisting, Cable Car, Excavator, Marine

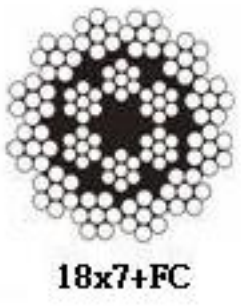
JIS Standard Steel Wire Rope

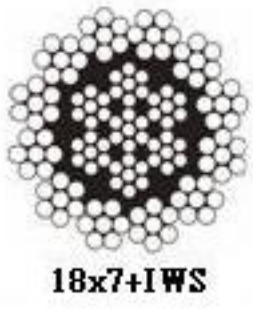
WIRE ROPE

18 x 7 + IWS

17 x 7 + IWS

Diameter mm	GB/T 20118-2006 / GB 8918-2006			EN 12385-4				JIS G 3525-2006		
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)		Diameter mm	Min. Breaking Load (kN)	Approx. Weight (Kg/m)
	1670N/mm^2	1770N/mm^2		1770N/mm^2	1960N/mm^2				Ungalv./Galv.	
	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC	IWS		A Type	
6	19.70	20.90	15.50	20.90	23.10	13.80	14.40	12	84.70	0.612
7	26.80	28.40	21.10	28.40	31.50	18.70	19.60	14	115.00	0.833
8	35.10	37.20	27.50	37.20	41.10	24.40	25.70	16	151.00	1.090
9	44.40	47.00	34.80	47.00	52.10	30.90	32.50	18	191.00	1.380
10	54.80	58.10	43.00	58.10	64.30	38.20	40.10	20	235.00	1.700
11	66.30	70.20	52.00	70.20	77.80	46.20	48.50	22	285.00	2.060
12	78.90	83.60	61.90	83.60	92.60	55.00	57.70			
13	92.50	98.10	72.70	98.10	109.00	64.60	67.80			
14	107.00	114.00	84.30	114.00	126.00	74.90	78.60			
16	140.00	149.00	110.00	149.00	165.00	97.80	103.00			
18	177.00	188.00	139.00	188.00	208.00	124.00	130.00			
20	219.00	232.00	172.00	232.00	257.00	153.00	160.00			
22	265.00	281.00	208.00	281.00	311.00	185.00	194.00			
24	316.00	334.00	248.00	334.00	370.00	220.00	231.00			
26	370.00	392.00	291.00	392.00	435.00	258.00	271.00			
28	429.00	455.00	337.00	455.00	504.00	299.00	314.00			
32	561.00	594.00	440.00	-	-	-	-			


18x7+FC


18x7+IWS

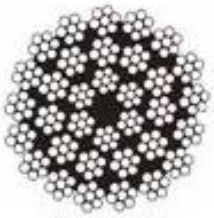

17x7+FC


17x7+IWS

Usage: Vertical Well, Tramway Support, Crane

WIRE ROPE

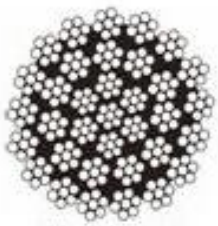
34 x 7 + FC 36 x 7 + FC Usage: Crane, General Engineering

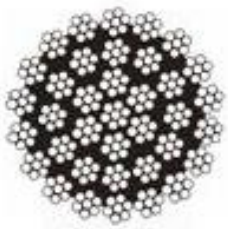

34x7+FC


36x7+FC

Diameter mm	GB/T 20118-2006 / GB 8918-2006			EN 12385-4			
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	
	1670N/mm²	1770N/mm²		1770N/mm²	1960N/mm²		
	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC	IWS
10	51.60	54.70	39.00	56.30	62.30	39.00	40.10
11	62.40	66.20	47.20	68.10	75.40	47.20	48.50
12	74.30	78.80	56.20	81.10	89.80	56.20	57.70
13	87.20	92.40	65.90	95.10	105.00	65.90	67.80
14	101.00	107.00	76.40	110.00	122.00	76.40	78.60
16	132.00	140.00	99.80	144.00	160.00	99.80	103.00
18	167.00	177.00	126.00	182.00	202.00	126.00	130.00
20	206.00	218.00	156.00	225.00	249.00	156.00	160.00
22	249.00	264.00	189.00	272.00	302.00	189.00	194.00
24	296.00	314.00	225.00	324.00	359.00	225.00	231.00
26	348.00	369.00	264.00	380.00	421.00	264.00	271.00
28	403.00	427.00	306.00	441.00	489.00	306.00	314.00
32	527.00	558.00	399.00	576.00	638.00	399.00	411.00

34 x 7 + IWS 36 x 7 + IWS Usage: Crane, General Engineering


34x7+IWS

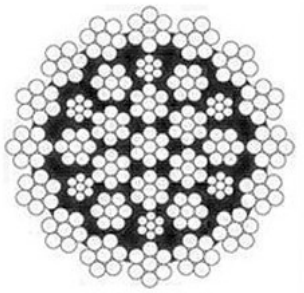

36x7+IWS

Diameter mm	GB/T 20118-2006 / GB 8918-2006			EN 12385-4			
	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)	
	1670N/mm²	1770N/mm²		1770N/mm²	1960N/mm²		
	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC / IWS	FC	IWS
10	53.10	56.30	43.00	56.30	62.30	39.00	40.10
11	64.30	68.10	52.00	68.10	75.40	47.20	48.50
12	76.50	81.10	61.90	81.10	89.80	56.20	57.70
13	89.70	95.20	72.70	95.10	105.00	65.90	67.80
14	104.00	110.00	84.30	110.00	120.00	76.40	78.60
16	136.00	144.00	110.00	144.00	160.00	99.80	103.00
18	172.00	182.00	139.00	182.00	202.00	126.00	130.00
20	212.00	225.00	172.00	225.00	249.00	156.00	160.00
22	257.00	272.00	208.00	272.00	302.00	189.00	194.00
24	306.00	324.00	248.00	324.00	359.00	225.00	231.00
26	359.00	380.00	291.00	380.00	421.00	264.00	271.00
28	416.00	441.00	337.00	441.00	489.00	306.00	314.00
32	544.00	576.00	440.00	576.00	638.00	399.00	411.00

WIRE ROPE

35 (W) X 7

Usage: Crane, General Engineering

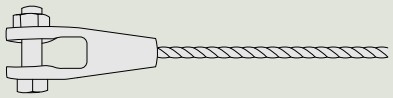
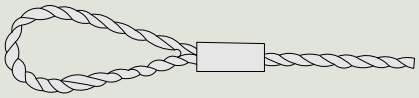
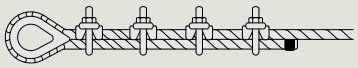
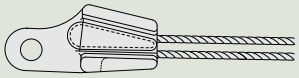
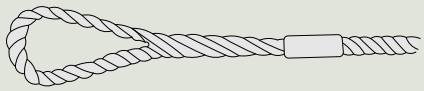


35WX7

Diameter mm	GB/T 20118-2006 / GB 8918-2006							EN 12385-4		
	Min. Breaking Load (kN)						Approx. Weight (Kg/100m)	Min. Breaking Load (kN)		Approx. Weight (Kg/100m)
	1570N/mm^2	1670N/mm^2	1770N/mm^2	1870N/mm^2	1960N/mm^2	2160N/mm^2		1960N/mm^2	2160N/mm^2	
8	36.20	38.50	40.80	43.10	45.20	49.80	29.40	45.20	48.40	29.10
9	45.80	48.70	51.60	54.50	57.20	63.00	37.30	57.20	61.20	36.80
10	56.50	60.10	63.70	67.30	70.60	77.80	46.00	70.60	75.60	45.40
11	68.40	72.70	77.10	81.50	85.40	94.10	55.70	85.40	91.50	54.90
12	81.40	86.60	91.80	96.90	102.00	112.00	66.20	102.00	109.00	65.40
13	95.50	102.00	108.00	114.00	119.00	131.00	77.70	119.00	128.00	78.70
14	111.00	118.00	125.00	132.00	138.00	152.00	90.20	138.00	148.00	89.00
16	145.00	154.00	163.00	172.00	181.00	199.00	118.00	181.00	194.00	116.00
18	183.00	195.00	206.00	218.00	229.00	252.00	149.00	229.00	245.00	147.00
20	226.00	240.00	255.00	269.00	282.00	311.00	184.00	282.00	302.00	182.00
22	274.00	291.00	308.00	326.00	342.00	376.00	223.00	342.00	366.00	220.00
24	326.00	346.00	367.00	388.00	406.00	448.00	265.00	406.00	435.00	262.00
26	382.00	406.00	431.00	455.00	477.00	526.00	311.00	477.00	511.00	307.00
28	443.00	471.00	500.00	528.00	553.00	610.00	361.00	553.00	593.00	356.00
30	509.00	541.00	573.00	606.00	635.00	700.00	414.00	635.00	680.00	409.00
32	579.00	616.00	652.00	689.00	723.00	796.00	471.00	723.00	774.00	465.00
34	653.00	695.00	737.00	778.00	816.00	899.00	532.00	816.00	874.00	525.00
36	732.00	779.00	826.00	872.00	914.00	1010.00	596.00	914.00	980.00	588.00
38	816.00	868.00	920.00	972.00	1020.00	1120.00	664.00	1020.00	1090.00	656.00
40	904.00	962.00	1020.00	1080.00	1130.00	1240.00	736.00	1130.00	1210.00	726.00

Wire Rope Sling

Rope End Fitting

Processing	Ef iciency	Methord
Socket	100%	
Eye Plice	75~95%	
Rocked	95%	
Clips	about 80%	
Wedge	65~70%	
Splice With Rocked	95%	

JIS Rocked Wire Rope

Dia	1m			2m			3m			4m		
	Product Code	Weight (kg)		Product Code	Weight (kg)		Product Code	Weight (kg)		Product Code	Weight (kg)	
6	061	0.21		062	0.33		063	0.45		064	0.57	
8	081	0.39		082	0.61		083	0.82		084	1.03	
9	091	0.50		092	0.77		093	1.04		094	1.31	
10	101	0.68		102	1.01		103	1.34		104	1.67	
12	121	1.01		122	1.48		123	1.96		124	2.44	
14	141	1.49		142	2.14		143	2.79		144	3.44	
16	161	1.97		162	2.82		163	3.67		164	4.52	
18	181	2.68		182	3.76		183	4.84		184	5.92	
20	201	3.33		202	4.66		203	5.99		204	7.32	
22	221	4.17		222	5.78		223	7.39		224	9.00	

Dia	5m			6m			8m			10m		
	Product Code	Weight (kg)		Product Code	Weight (kg)		Product Code	Weight (kg)		Product Code	Weight (kg)	
6	065	0.69		066	0.81		068	1.05		0610	1.29	
8	085	1.24		086	1.45		088	1.88		0810	2.30	
9	095	1.57		096	1.84		098	2.38		0910	2.92	
10	105	2.01		106	2.34		108	3.00		1010	3.67	
12	125	2.92		126	3.40		128	4.35		1210	5.31	
14	145	4.09		146	4.74		148	6.05		1410	7.35	
16	165	5.37		166	6.22		168	7.92		1610	9.62	
18	185	7.00		186	8.08		188	9.16		1810	11.32	
20	205	8.65		206	9.98		208	12.64		2010	15.30	
22	225	10.61		226	12.22		228	15.44		2210	18.66	

Ferrule, Cutter

Alminium Ferrule (JIS/EN)

Mandrel
Seamless Tube,
Double Type

JIS H4080 (According to JIS B8817)

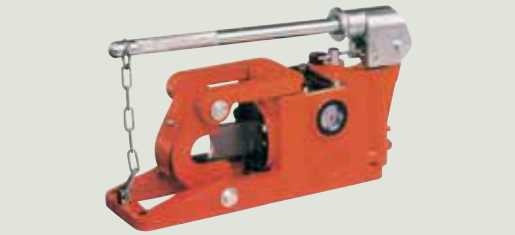
Size	Length (A)	Q'ty
6	24	600
8	31.5	500
9	36	400
10	40	250
12	48	200
14	56	140
16	64	100
18	72	70
20	80	50
22	88	40
24	96	30
26	104	28
28	112	21
30	120	17
32	128	13

Mandrel
Seamless Tube,
Single Type

JIS H4080 (According to JIS B8817)

Size	Length (A)
6	29
8	39
9	44
10	48
12	58
14	68
16	77

Hydraulic Wire Rope Cutter



No necessity of the auxiliary tool in work, and it will be possible to cut in a few seconds.
Grinding and subsitution of the cutting blade can be easily done.
The oil leakage is prevented by adopting the new methord for packing
The state of oil plances from the oil gauge on the tank side and understands.
The oil can be easily replenshed

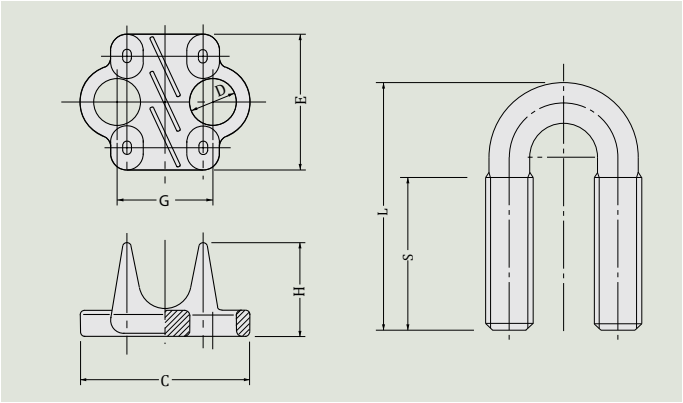
Type	Capacity (A)	Size (L)X(W)X(H)	Weight (O)
A	20	310 × 90 × 152	10
B	30	380 × 105 × 180	15
C	40	400 × 120 × 200	20
D	50	485 × 130 × 220	30
E	60	630 × 175 × 270	70
L	100	1000 × 600 × 360	200

Wire Rope Clip

Drop Forged Steel Wire Rope Clip (JIS/US)

Self Color

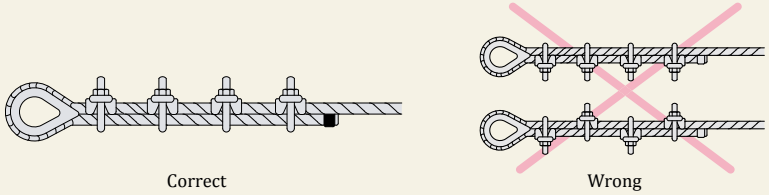
HOT DIPPED GALV.



JIS B2809-1996 (JIS Sandard F Type)

Size	BODY				U-BOLT/NUT			Weight (N)
	C	E	G	H	Thread	L	S	
6	30	24.5	14	16	M6	35	20	47
8	36	31	18	19	8	40	20	80
9	41	29	22	19	10	46	24	112
10	45	35	22	23	10	50	28	150
12	51	39	26	27	12	60	35	220
14	53	45	28	31	12	65	40	260
16	60	48	32	35	14	75	45	380
18	62	53	34	37	14	80	50	450
20-22	78	62	44	43	18	100	60	800
24-25	86	68	48	47	20	110	65	1100
26-28	94	75	54	53	22	120	70	1500
30-32	98	79	58	58	22	130	75	1600
33-38	120	93	70	65	27	150	85	2800
40-45	136	100	80	72	30	175	95	4400
47-50	150	115	89	81	33	195	100	6100
53-60	170	128	101	96	36	240	125	8900
63-70	191	142	116	105	39	270	130	10900
73-80	212	156	128	114	42	300	150	14600

Methord of installing wire rope clip
. Please install the wire rope clip correctly.
. It was tightened by correct torque then the retension ef iciency is 80%.



Correct Wrong

The slipping is caused in the tightening parts if the wrong instruction or tightening torque is not proper and it causes an accident due to the decrease in retentivity.

Notes

1: Please use what suitable for JIS rope diameter (please do not use the rope of different kinds & diameterwith the same wire rope clips)
2: Please remove if the sand on the clips and please do not use the rusted.
3: Please bring a wire rope clip that is the nearestthe eye of the thimble close the thimble as much as possible.
4: Moreover, please give the length of the wire rope of the part of the terminal end of the wire rope clip as 6 times the diameter.
Please tighten tightening with the toruque wrench by correct torque. Moreover, please tighten tightening one by one dividing from the wire rope clip of the terminal into 3 timesor more in the same order.
5: Please fasten in the diameter's become thin and slipperiness
6: Please mark with the paint or others, and sometimes con irm the presence of slipping after installation ends.
7: Please do not use the wire rope clip for the Vinyl cora wire rope when the laod.

Fitting Standard (FOR 6X24 / 6X 37)

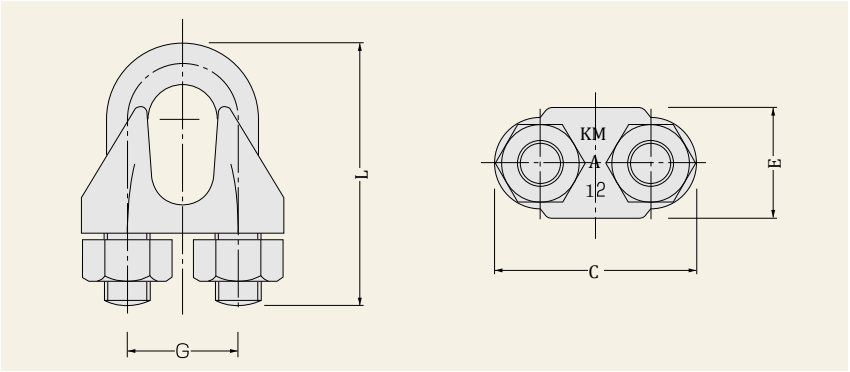
Rope Dia (A)	Fitting Q'ty	Space (A)	Toruque (O f･B)
6	4	40	100
8	4	50	120
10	4	70	160
12	4	80	240
14	4	90	380
16	4	100	530
18	5	120	680
20	5	130	840
24	5	160	1210
26	5	170	1400
30	6	200	1900
36	7	230	2660
40	7	260	3050
48	8	310	4050

Malleable Iron Cast Wire Rope Clip

Self Color

Galvanized

Please use the drop forged wire rope clip (JIS type) when the heavy loading



Size (A)	U-BOLT/NUT (W)	Weight (N)
3	3/16	15
4.5	1/4	27
6	5/16	55
8	5/16	62
9	3/8	105
12	3/8	130
16	1/2	254
19	1/2	295
19KL	1/2	272
22	5/8	545
25	5/8	650

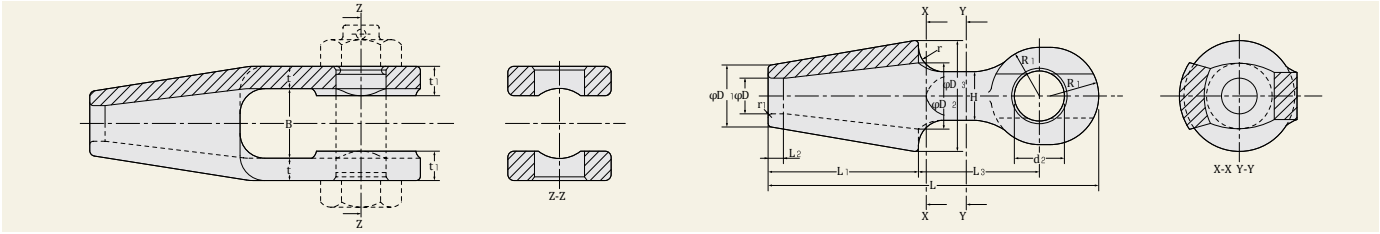
The KL clip is the small size and light for the lashing wire

	C	E	G	L
KM19	61	32	33	74
KL19	56	28	32	73

Wire rope socket

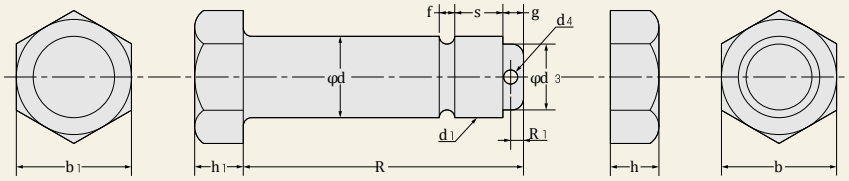
Wire rope socket （Open type） JIS F 3432-1995

Wire Rope Socket Open Type



Size	Rope Dia	D	D_1	D_2	D_3	B	L	L_1	L_2	L_3	H	t	t_1	R_1	r	r_1	d_2	WLL KN (tf)	Weight (O)
16	16	20	26	37	55	40	193	88	8	74	24	9	13	26	12	2	26	25.5 （ 2.6）	1.04
18	18	23	30	40	62	43	210	95	9	81	27	11	15	29	13	2	29	32.4 （ 3.3）	1.49
20	20	25	35	44	69	47	227	103	10	86	30	13	18	32	15	2	32	40.2 （ 4.1）	2.13
22	22.4	30	40	49	77	52	245	111	11	93	33	14	20	35	17	2	35	50.0 （ 5.1）	2.84
24	24	32	44	52	84	56	262	119	12	98	36	16	22	38	18	2	38	57.9 （ 5.9）	3.77
25	25	33	49	56	91	60	281	127	13	106	39	18	24	41	20	2	41	67.7 （ 6.9）	4.83
28	28	36	53	61	98	65	298	135	14	111	41	19	26	44	21	2	44	78.5 （ 8.0）	5.92
30	30	38	58	64	106	68	316	143	15	118	44	21	28	47	23	3	47	90.2 （ 9.2）	7.50
32	31.5	40	62	68	113	72	335	151	16	125	47	23	31	50	25	3	50	103.0 （10.5）	9.21
34	33.5	42	67	71	120	75	353	159	17	131	50	25	33	54	26	3	54	112.8 （11.5）	11.3
36	35.5	44	71	76	127	80	373	168	18	138	53	26	35	57	28	3	57	127.5 （13.0）	13.1
38	37.5	47	76	80	134	84	392	177	19	144	56	27	36	60	29	3	60	142.2 （14.5）	15.4
40	40	49	80	84	141	88	413	186	20	153	59	29	38	63	31	4	63	161.8 （16.5）	18.0
42	42.5	52	84	88	148	92	434	196	21	160	61	30	40	66	33	4	66	181.4 （18.5）	20.9
45	45	54	92	96	162	101	474	214	23	175	67	33	44	72	36	4	72	205.9 （21.0）	27.5
48	47.5	57	96	99	169	104	494	223	24	183	70	35	46	75	37	4	75	225.6 （23.0）	31.4
50	50	60	99	104	176	109	516	233	25	191	73	36	48	78	39	5	78	250.1 （25.5）	35.1
53	53	63	102	108	183	113	536	242	26	199	76	38	50	81	40	5	81	274.6 （28.0）	39.3
56	56	66	108	114	193	119	567	256	28	211	80	40	53	85	42	5	85	308.9 （31.5）	46.9
60	60	70	116	124	210	129	619	279	30	232	87	43	57	92	46	6	92	353.0 （36.0）	59.4
63	63	74	120	128	216	133	641	289	31	240	90	44	58	95	47	6	95	392.3 （40.0）	64.5

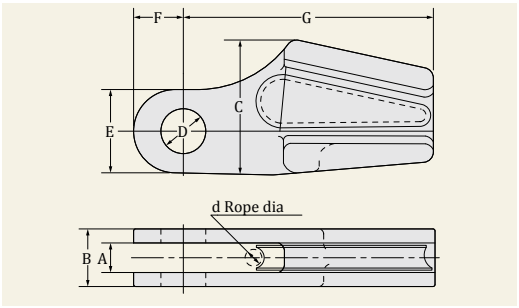
Hexagonal Bolt And Nut For Wire Rope Socket Open Type



Size	Rope Dia	d	Thread d_1	R	R_1	S	g	h	b	d_3	Dia of Cotter Pin d_4	f	h_1	Weight (O)
16	16	25	M22	81	6.5	13	10	13	32	17	5	4	14	0.50
18	18	28	M24	89	6.5	14	10	14	36	19	5	5	15	0.69
20	20	31	M27	101	8	16	12	16	41	22	5	5	17	0.80
22	22.4	34	M30	110	8	18	12	18	46	25	6	5	19	1.12
24	24	37	M33	120	8	20	12	20	50	27	6	6	21	1.44
25	25	40	M39	134	10	23	15	23	60	30	8	6	25	2.09
28	28	43	M42	143	10	25	15	25	63	32	8	7	26	2.49
30	30	46	M45	152	10	27	15	27	67	35	8	7	28	3.17
32	31.5	49	M48	162	10	29	15	29	71	35	8	8	30	3.73
34	33.5	52	M48	169	10	29	15	29	71	38	8	8	30	4.06
36	35.5	55	M52	178	10	31	15	31	77	40	8	8	32	4.83
38	37.5	58	M56	190	12	34	18	34	85	46	10	9	35	6.15
40	40	61	M56	198	12	34	18	34	85	46	10	9	35	6.63
42	42.5	64	M60	206	12	36	18	36	90	50	10	9	38	7.84
45	45	70	M68	225	12	40	18	40	100	58	10	10	42	10.5
48	47.5	73	M68	232	12	40	18	40	100	58	10	10	42	11.1
50	50	76	M72× 6	241	12	42	18	42	105	58	10	10	45	12.6
53	53	79	M76× 6	253	12	46	18	46	110	64	10	10	48	14.3
56	56	83	M80× 6	265	12	48	18	48	115	68	10	11	50	17.1
60	60	90	M85× 6	287	14	50	22	50	120	75	13	11	52	20.4
63	63	93	M85× 6	293	14	50	22	50	120	75	13	11	52	21.8

Wire rope socket

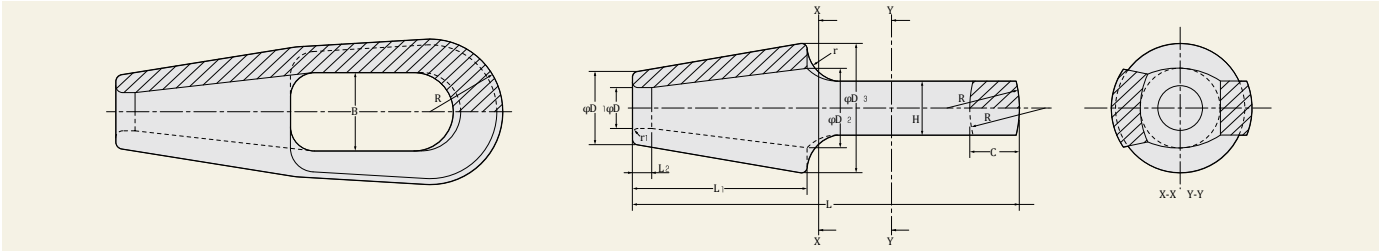
Wedging Socket



Size	Rope Dia d (m/m)	D	A	B	E	F	G	C	Weight (O)
10	10～12	25	19	37	50	30	150	84	3.1
14	14～16	29	24	50	58	35	195	106	5.0
18	18～20	32	28	64	64	40	235	128	8.7
22	22～24	40	34	78	80	48	280	154	16.2
26	26～28	45	38	90	90	55	330	178	23.8
30	30～32	50	42	104	100	60	380	203	38.2
34	34～36	60	48	118	120	75	420	233	53.8
38	38～40	65	52	128	130	80	450	260	
42	42～44	70	54	142	140	85	480	286	

Wire rope socket （Closed type） JIS F 3432-1995

Wire rope socket Closed type



Size	Rope Dia	D	D_1	D_2	D_3	B	L	L_1	L_2	H	C	R	r	r_1	WLL KN (tf)	Weight (O)
16	16	20	26	37	55	40	193	88	8	24	21	38	12	2	25.5 （ 2.6）	1.18
18	18	23	30	40	62	43	210	95	9	27	24	41	13	2	32.4 （ 3.3）	1.64
20	20	25	35	44	69	47	227	103	10	30	26	44	15	2	40.2 （ 4.1）	2.24
22	22.4	30	40	49	77	52	245	111	11	33	29	48	17	2	50.0 （ 5.1）	2.95
24	24	32	44	52	84	56	262	119	12	36	31	51	18	2	57.9 （ 5.9）	3.84
25	25	33	49	56	91	60	281	127	13	39	34	54	20	2	67.7 （ 6.9）	4.89
28	28	36	53	61	98	65	298	135	14	41	36	58	21	2	78.5 （ 8.0）	5.87
30	30	38	58	64	106	68	316	143	15	44	39	61	23	3	90.2 （ 9.2）	7.37
32	31.5	40	62	68	113	72	335	151	16	47	42	64	25	3	103.0 （10.5）	8.97
34	33.5	42	67	71	120	75	353	159	17	50	44	68	26	3	112.8 （11.5）	10.8
36	35.5	44	71	76	127	80	373	168	18	53	47	72	28	3	127.5 （13.0）	12.6
38	37.5	47	76	80	134	84	392	177	19	56	49	75	29	3	142.2 （14.5）	15.0
40	40	49	80	84	141	88	413	186	20	59	52	79	31	4	161.8 （16.5）	17.5
42	42.5	52	84	88	148	92	434	196	21	61	54	83	33	4	181.4 （18.5）	20.3
45	45	54	92	96	162	101	474	214	23	67	60	91	36	4	205.9 （21.0）	26.6
48	47.5	57	96	99	169	104	494	223	24	70	62	95	37	4	225.6 （23.0）	30.5
50	50	60	99	104	176	109	516	233	25	73	65	99	39	5	250.1 （25.5）	34.1
53	53	63	102	108	183	113	536	242	26	76	67	103	40	5	274.6 （28.0）	38.0
56	56	66	108	114	193	119	567	256	28	80	71	109	42	5	308.9 （31.5）	45.2
60	60	70	116	124	210	129	619	279	30	87	78	119	46	6	353.0 （36.0）	58.3
63	63	74	120	128	216	133	641	289	31	90	81	123	47	6	392.3 （40.0）	64.0

KONDOTEC INTERNATIONAL (THAILAND) CO.,LTD.
1-7 Zuellig House Building Unit 302 3rd Floor
Silom Road Silom Bangrak Bangkok 10500
Tel : +66(0)2 236 5070-71
Fax : +66(0)2 236 5073
Email : info@kondotec-inter.com
Site : www.kondotec-inter.com