ELEVATOR ROPE

SHENLONG | METALLINK

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About us

The company covers an area of 30,000 square meters, with a 25,000-square-meter modern standard workshop, equipped with advanced production lines and testing equipment, and its annual production capacity exceeds 20,000 tons. The company is gathering a group of highly skilled R&D teams and experienced production management personnel, ensuring full-process quality control from raw materials to finished products.

The company focuses on technological innovation in the field of steel wires. Its product range includes high-strength steel wire ropes, special steel wires and other series, which are widely used in diverse fields such as wind power generation, automotive cables, marine engineering, port machinery, shipbuilding, construction machinery, wires and cables, construction, agriculture, and fishery. With stable product performance and customized service capabilities, the company has established long-term strategic cooperation with many leading enterprises in the industry.

Integrity management is our purpose. We believe that and rational profit are the key to long-term cooperation on the premise of meeting customer needs.

Gallery of workshop

Fiber Core NFC (sisal) 8 Strands

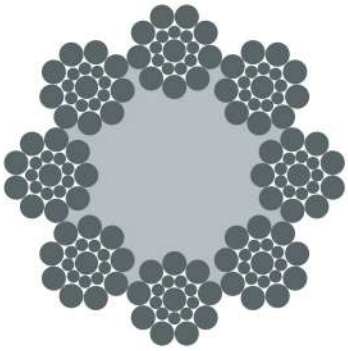
Elevator traction ropes

For low-rise: lift speed ≤ 2.0m/s, lifting height ≤ 80m
For mid-rise: lift speed ≤ 3.0m/s, lifting height ≤ 120m

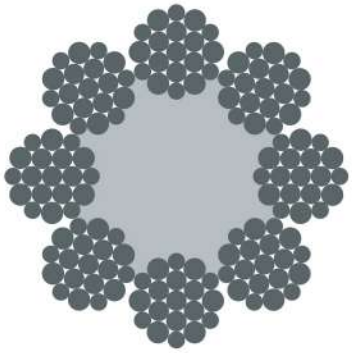
Rope ø		Approx. length mass	MBL (1370/1770)	MBL (1570/1770)	MBL (1570)
mm	inch	kg/100m	kN	kN	kN
6		12.4	15.8	17.3	16.6
6.35	1/4	13.9	17.7	19.4	18.5
6.5		14.6	18.6	20.3	19.4
8	5/16	22.1	28.1	30.8	29.4
9		27.9	35.6	38.9	37.3
9.5		31.1	39.7	43.4	41.5
10	3/8	34.5	44.0	48.1	46.0
11	7/16	41.7	53.2	58.1	55.7
12		49.7	63.3	69.2	66.2
12.7	1/2	55.6	70.9	77.5	74.2
13		58.3	74.3	81.2	77.7
14		67.6	86.1	94.2	90.2
14.3	9/16	70.5	89.9	98.3	94.1
15.9	5/8	87.2	111	121	116
16		88.3	113	123	118

* Standard ISO 4344, EN 12385-5 is avaiable upon request

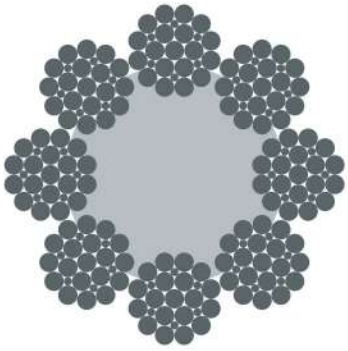
* For diameter < 8mm, polymer core or SFC instead of sisal core



8×19S-NFC



8×19W-NFC



8×25F-NFC

Rope ø	Approx. length mass	MBL (Grade E)	MBL (Grade A)
mm	kg/100m	kN	kN
8	22.0	26.0	30.8
10	34.3	40.6	48.1
11	41.5	49.2	58.2
12	49.4	58.5	69.2
13	57.9	68.6	81.3
14	67.2	79.6	94.3
16	87.8	104	123

* Standard JISG 3525

Full Steel Core IWRC 8 Strands

Elevator traction ropes

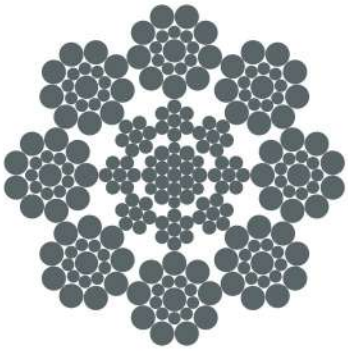
For mid-rise: lift speed ≤ 4.0m/s, lifting height ≤ 200m

Rope ø		Approx. length mass	MBL (1370/1770)	MBL (1570/1770)	MBL (1570)
mm	inch	kg/100m	kN	kN	kN
6		14.8	---	---	24.3[1]
6.5		17.4	---	---	28.6[2]
8	5/16	26.4	38.4	40.8	38.4
9		33.4	48.6	51.7	48.6
9.5	3/8	37.2	54.1	57.6	54.1
10		41.2	60.0	63.8	60.0
11	7/16	49.9	72.6	77.2	72.6
12		59.3	86.4	91.9	86.4
12.7	1/2	66.5	96.7	103	96.7
13		69.6	101	108	101
14.3	9/16	84.2	123	130	123
15		92.7	135	144	135
15.9	5/8	104	152	161	152
16		105	154	163	154

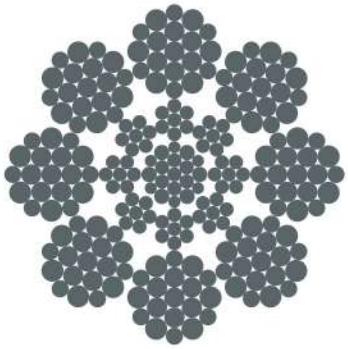
* Standard ISO 4344, EN 12385-5 is avaiable upon request

* [1] 26.8 kN can be customized if required

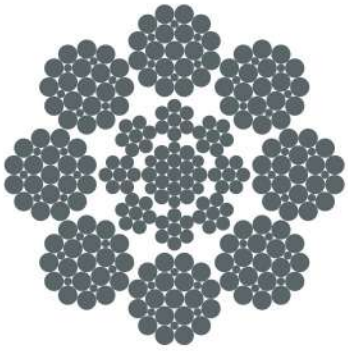
* [2] 31.5 kN can be customized if required



8×19S-IWRC



8×19W-IWRC



8×25F-IWRC

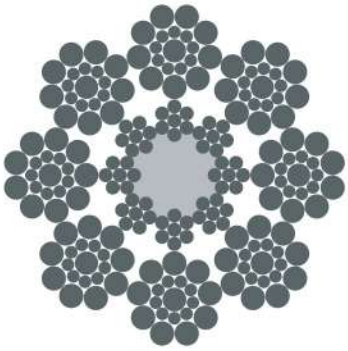
Composite Steel Core CSC 8 Strands

Elevator traction ropes

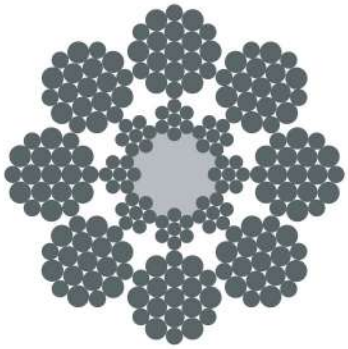
For mid-rise: lift speed ≤ 4.0m/s, lifting height ≤ 200m

Rope ø		Approx. length mass	MBL (1370/1770)	MBL (1570/1770)	MBL (1570)
mm	inch	kg/100m	kN	kN	kN
8	5/16	24.2	35.4	37.6	35.4
9		30.6	44.8	47.6	44.8
9.5	3/8	34.1	49.9	53.1	49.9
10		37.8	55.3	58.8	55.3
11	7/16	45.7	66.9	71.1	66.9
12		54.4	79.6	84.6	79.6
12.7	1/2	61.0	89.1	94.8	89.1
13		63.9	93.4	99.3	93.4
14.3	9/16	77.3	113	120	113
15		85.1	124	132	124
15.9	5/8	95.6	139	148	139
16		96.8	141	150	141

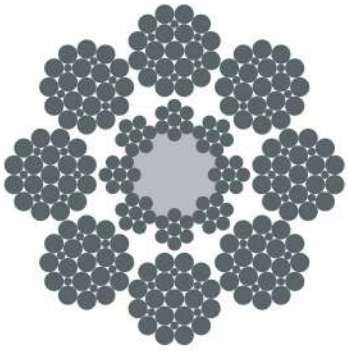
* Standard ISO 4344



8×19S-CSC



8×19W-CSC



8×25F-CSC

Full Steel Core IWRC (7x7) 8 Strands

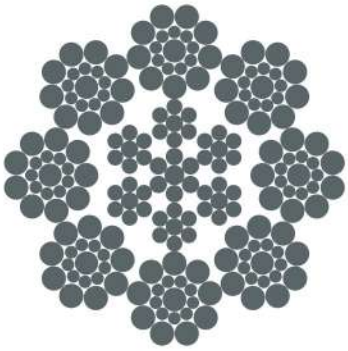
Elevator traction ropes

For villa / MRL / hydraulic elevator

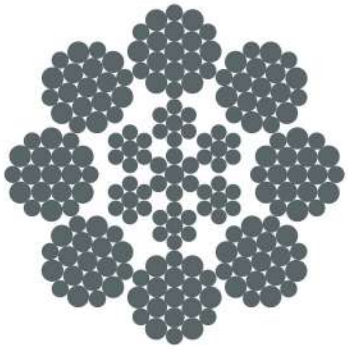
Rope ø		Approx. length mass	MBL (1570)	MBL (1770)	MBL (1770)
mm	inch	kg/100m	kN	kN	kN
6		14.8	21.6	24.3	25.9 [1]
6.35	1/4	16.6	24.2	27.3	----
6.5		17.4	25.3	28.6	31.5 [1]

* Standard ISO 4344, EN 12385-5 is avaiable upon request

* [1] High performance



8×19S-IWRC(7×7)



8×19W-IWRC(7×7)

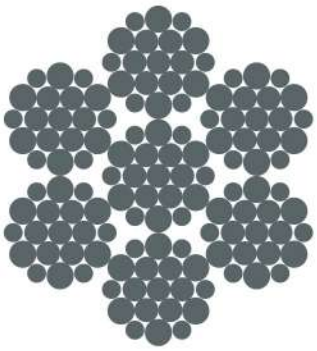
Full Steel Core WSC 6 Strands

Elevator traction ropes

For villa / MRL / hydraulic elevators

Rope ø		Approx. length mass	MBL (1770)
mm	inch	kg/100m	kN
6		15.0	22.7
6.35	1/4	16.9	25.4
6.5		17.7	26.6

* Standard ISO 4344



6×19W-WSC

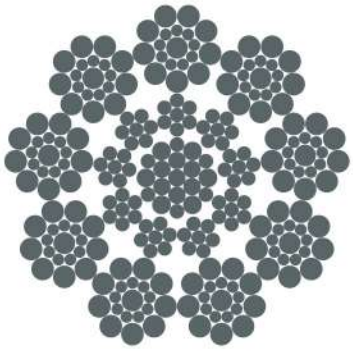
Full Steel Core IWRC
9 Strands

Elevator traction ropes

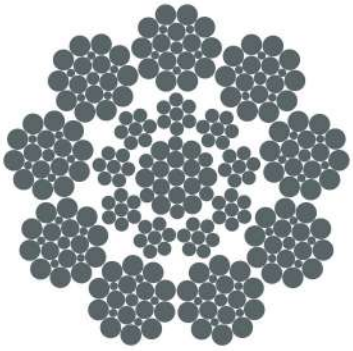
For mid-rise: lift speed ≥ 4.0m/s, lifting height ≤ 300m

Rope ø		Approx. length mass	MBL (1570/1770)	MBL (1570)	MBL (1770)
mm	inch	kg/100m	kN	kN	kN
8	5/16	27.0	41.5	39.0	44.0
9		34.2	52.5	49.3	55.6
9.5	3/8	38.1	58.5	55.0	62.0
10		42.2	64.8	60.9	68.7
11	7/16	51.1	78.4	73.7	83.1
12		60.8	93.3	87.7	98.9
12.7	1/2	68.1	105	98.3	111
13		71.3	110	103	116
14		82.7	127	119	135
14.3	9/16	86.3	133	125	140
15.9	5/8	107	164	154	174
16		108	166	156	176
18		137	210	197	223

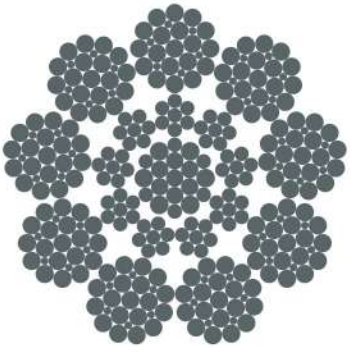
* Standard ISO 4344



9×19S-IWRC



9×21F-IWRC



9×25F-IWRC

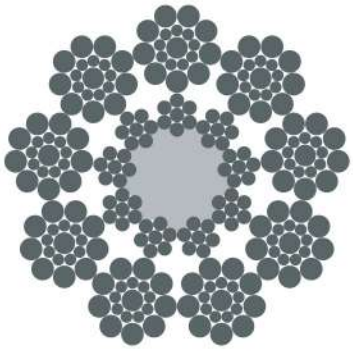
Composite Steel Core 9 Strands

Elevator traction ropes

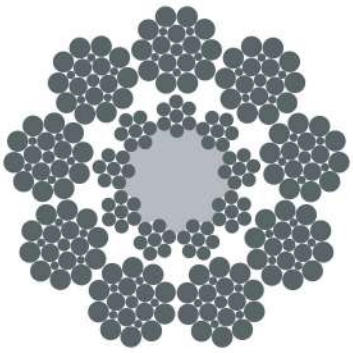
For mid-rise: lift speed ≥ 4.0m/s, lifting height ≤ 300m

Rope ø		Approx. length mass	MBL (1570/1770)	MBL (1570)	MBL (1770)
mm	inch	kg/100m	kN	kN	kN
8	5/16	23.7	36.9	34.7	39.1
9		30.1	46.7	43.9	49.5
9.5	3/8	33.5	52.0	48.9	55.1
10		37.1	57.6	54.2	61.1
11	7/16	44.9	69.7	65.5	73.9
12		53.4	83.0	78.0	87.9
12.7	1/2	59.8	93	87.4	98
13		62.7	97	92	103
14		72.7	113	106	120
14.3	9/16	75.9	118	111	125
15.9	5/8	94	146	137	154
16		95	147	139	156
18		120	187	175	198

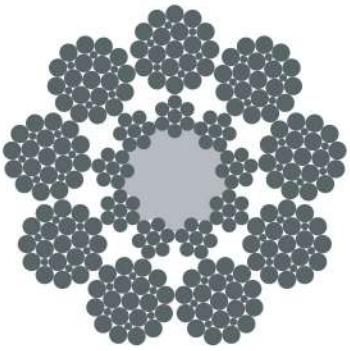
* Standard ISO 4344



9×19S-CSC



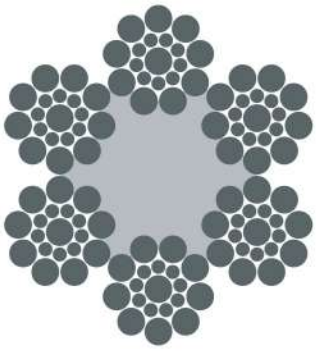
9×21F-CSC



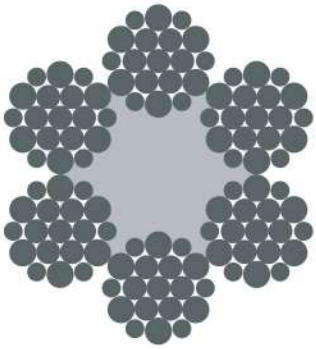
9×25F-CSC

Fiber Core SFC (pp) 6 Strands

Elevator governor ropes



6×19S-SFC



6×19W-SFC

Rope ø		Approx. length mass	MBL (1370/1770)	MBL (1770)
mm	inch	kg/100m	kN	kN
6		12.9	17.8	21.0
6.35	1/4	14.5	20.0	23.6
6.5		15.2	20.9	24.7
8		23.0	31.7	37.4

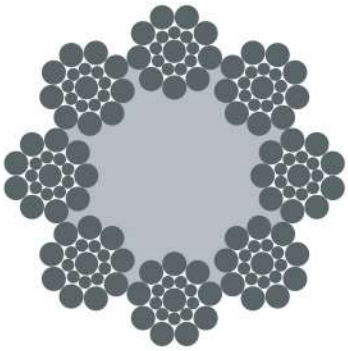
* Standard ISO 4344, EN 12385-5 is avaiable upon request

Rope ø	Weight	MBL (Grade E)
mm	kg/100m	kN
6	13.9	16.1
6.3	15.3	17.8
8	24.7	28.6

* Standard JIS G3525

Fiber Core SFC (pp) 8 Strands

Elevator governor ropes



8×19S-SFC

Rope ø		Approx. length mass	MBL (1370/1770)
mm	inch	kg/100m	kN
8	5/16	22.1	28.1
10		34.5	44.0
12		49.7	63.3

* Standard ISO 4344

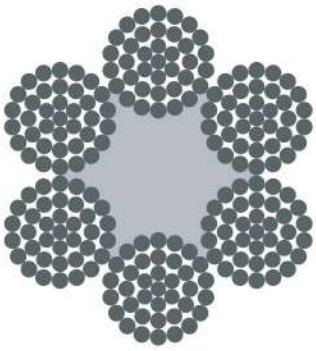
* EN 12385-5 is avaiable upon request

Rope ø	Approx. length mass	MBL (Grade E)
mm	kg/100m	kN
8	22.0	26.0
10	34.3	40.6
12	49.4	58.5

* Standard JIS G3525

Fiber Core SFC (pp)
6 Strands

Elevator compensating ropes



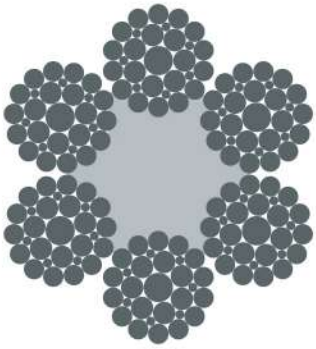
6×37M-SFC

Rope ø		Approx. length mass	MBL (1570)	MBL (1770)
mm	inch	kg/100m	kN	kN
16		88.6	119	134
18		112	150	169
20		138	185	209
22		167	224	253
24		199	267	301
26		234	313	353
28		271	363	409

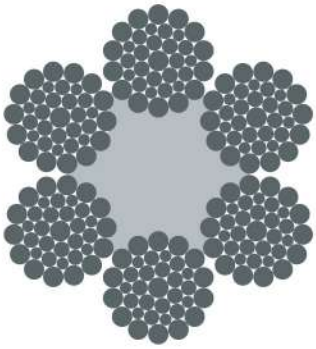
* Standard ISO 4344

Fiber Core SFC (pp)
6 Strands

Elevator compensating ropes



6×29F-SFC



6×36WS-SFC

Rope ø		Approx. length mass	MBL (1570)	MBL (1770)	MBL (1960)
mm	inch	kg/100m	kN	kN	kN
13		63.8	89.7	101	112
14		74.0	104	117	130
16		96.7	136	153	169
18		122	172	193	214
19		136	191	216	239
20		151	212	239	265
22		183	256	289	320
24		217	305	344	381
26		255	358	404	448
28		296	416	469	519

* Standard ISO 4344

STRINGPRO®

Maintenance Oil
designed for elevator rope

Feature

- Excellent lubrication, rust prevention, penetration, and friction-enhancing effects, providing strong frictional power and eliminating concerns about slippage due to excessive oil in the steel rope.
- Good adaptability to high and low temperatures, suitable for various working environments.
- Excellent rust prevention, effectively extending the service life of the wire rope.
- Good lubrication, ensuring good lubrication between the steel wires and strands.
- Good versatility, suitable for lubrication and protection of high-end steel wire ropes from various elevator brands.

STRINGPRO is a diluted friction-enhancing steel wire rope oil, specially designed for elevator wire ropes. It uses a new synthetic formula with nano-materials, making it easier to penetrate the interior of elevator wire ropes and thus significantly extending rope's service life.

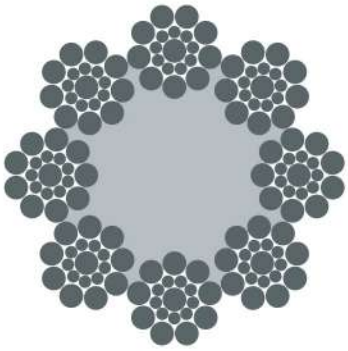
Composition

Mineral Oil	55～65 %
Film Former	5～10 %
Petroleum Sulfonate	15~25 %

Experimental verification has shown that it extends the service life of elevator wire ropes by more than

2 times

Standardized rope designation



8×19S-NFC

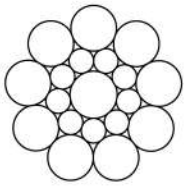
These symbols have to be used for the standardized rope designation

Example

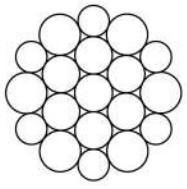
10_8 × 19 S - NFC 1370/1770 U sZ ISO4344

- 10 — nominal rope Ø 10 mm
- 8 — 8 strands
- 19 — 19 wires per strand
- S — strand construction: seale
- NFC — natural fibre core
- 1370/1770 — rope grade; outer wire: 1370 N/mm² inner wire: 1770 N/mm²
- U — wire finish: bright
- sZ — lay direction: right hand regular lay (RHRL)
- ISO4344 — standard

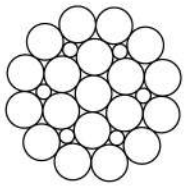
Strand construction



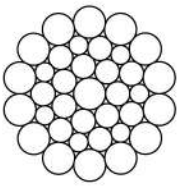
Seale



Warrington



Filler



Warrington-Seale

Lay direction

sZ = right hand regular lay
zZ = right hand lang lay
zS = left hand regular lay
sS = left hand lang lay

Rope core type

NFC = natural fibre core
SFC = synthetic fiber core
WSC = wire strand core
IWRC = independant wire rope core
PWRC = parallel wire rope centre

Wire finish

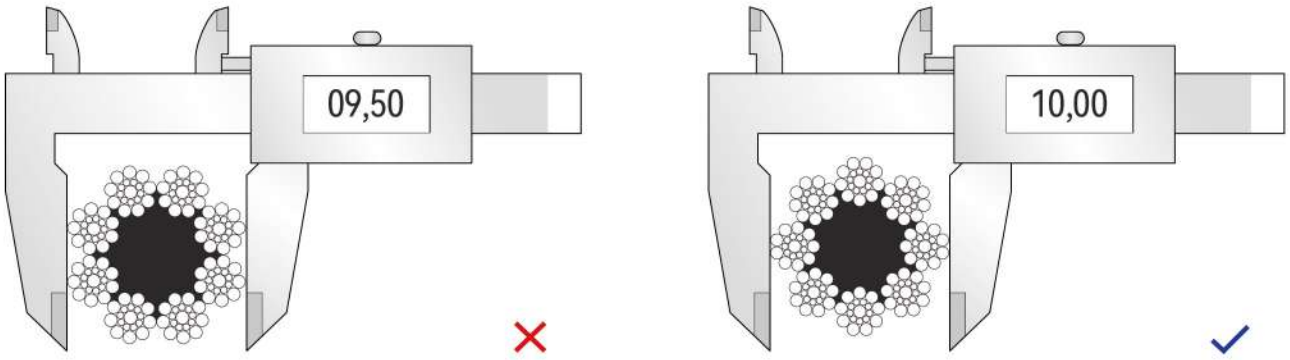
U = bright, non-galvanized
B = quality B galvanized

Rope grade - hardness

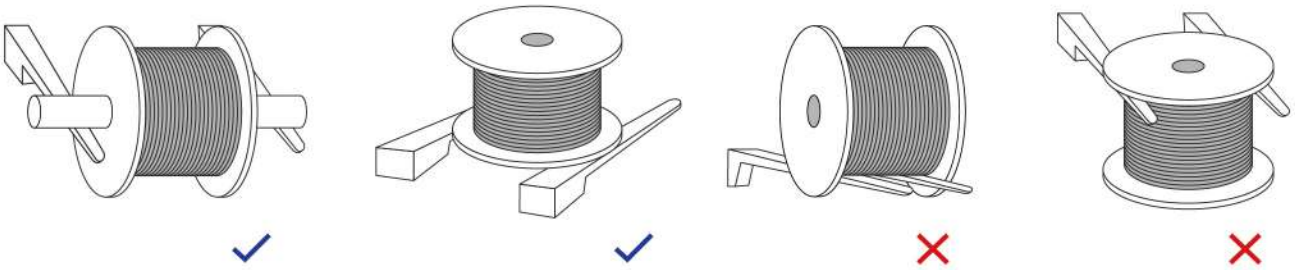
Rope grade of outer wire	Hardness of unhardened traction sheave
N/mm²	HB
1180	180 - 200
1370	200 - 230
1570	220 - 240
1620	230 - 250
1770	240 - 260

* Standard ISO 18265

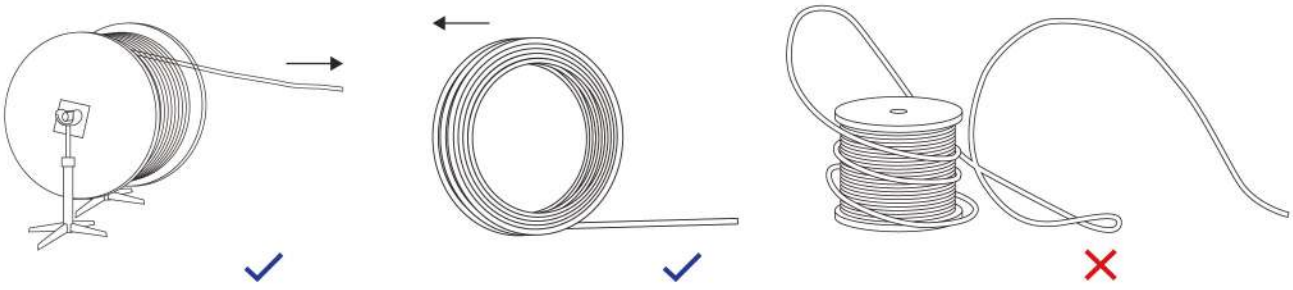
Diameter measurement

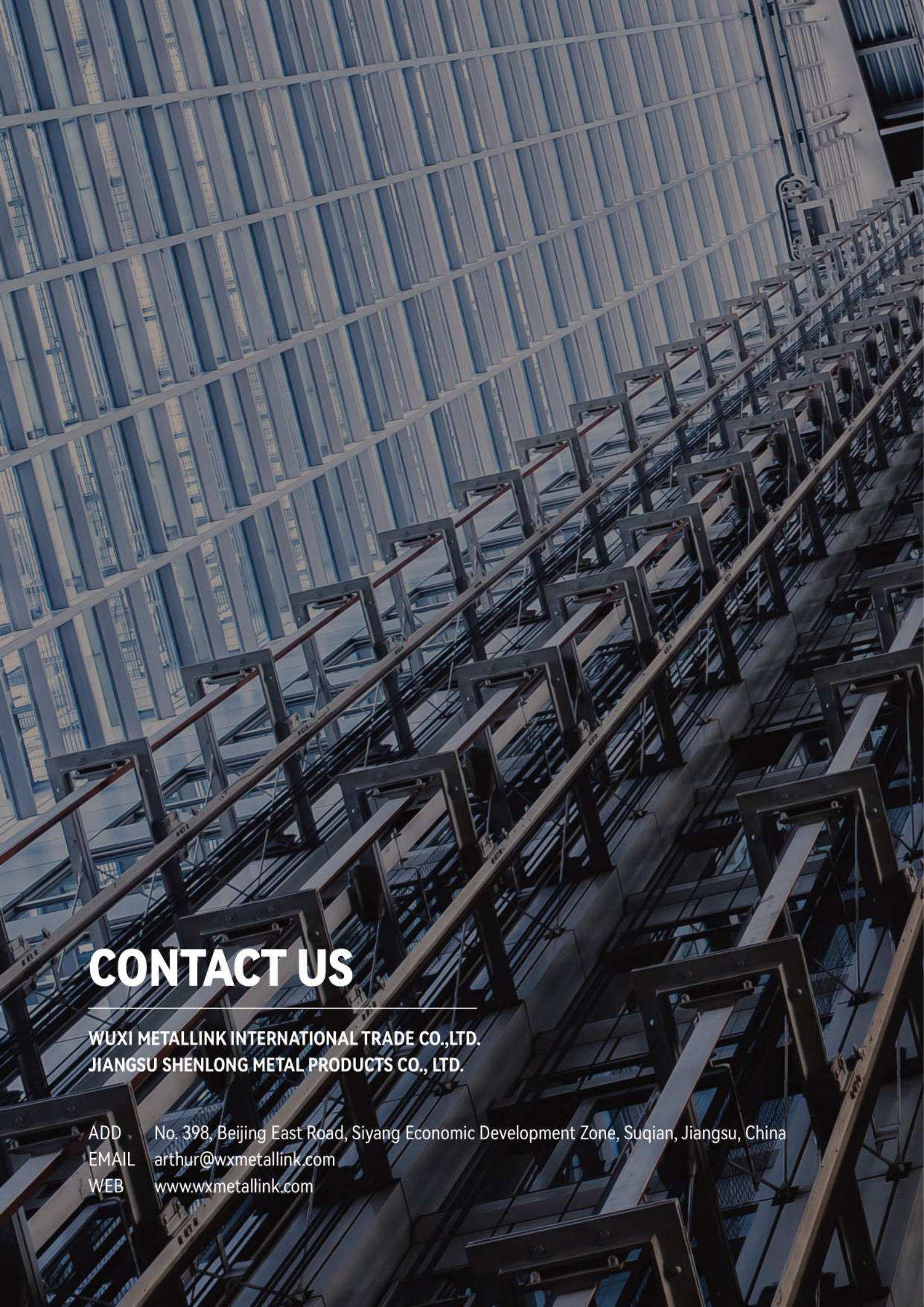


Carrying ropes



Unwinding ropes





CONTACT US

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