

诚信 / 创新 / 责任 / 价值  
Honesty / Innovate / Liability / Worth

### 南通神威钢绳有限公司

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company website



Company VR

Create Brand,  
Quality is the key to enhance the value,  
Detail is the key of trusted!



STEEL WIRE ROPE  
STEEL WIRE

南通神威钢绳有限公司

NANTONG SHENWEI STEEL WIRE ROPE CO., LTD.

江苏嵘璞钢绳有限公司

JIANGSU TOPROPE STEEL WIRE ROPE CO., LTD.

南通神威进出口有限公司

NANTONG SHENWEI IMPORT & EXPORT CO., LTD.

# Company spirit 企业精神

企业精神：  
诚信/创新/责任/价值

Philosophy spirit:  
Honesty/Innovate/Liability/Worth

诚信 | 创新 | 责任 | 价值 HONESTY, INNOVATION, RESPONSIBILITY, WORTH

## 以人为本

管理重在细节, 细节决定品质, 品质决定品牌。

People-oriented, management focus on details, details decides the quality and quality decide the brand.

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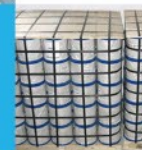
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## Company profile 公司简介

依管理夯基础，凭诚信拓市场。

Reinforce the foundation based on management and expand the market with integrity.



(南通神威 — NANTONG SHENWEI)

南通神威钢绳有限公司是于1994年6月建成投产的现代股份制企业，注册资金888万元，南通市AAA级资信企业，现有固定资产1500余万元，占地面积35000平方米，建筑面积20000平方米，现有职工400多人，其中质量技术人员48人。是钢丝、钢丝绳专业生产厂家。公司拥有拉丝、捻股、合绳、镀锌、热处理等各类生产设备150余台，年生产量达2万余吨，配有十余台质量控制设备监管生产流程保障产品质量。污水处理设施的应用有效达到保护环境的目的。

为了满足企业未来发展的需要，神威钢绳于2020年投资建成了现代化专业钢丝绳制造厂（江苏嵘璞钢绳有限公司）。注册资金1200万元，占地面积24000平方米，预计年产量12000吨，主要产品是厚锌层钢丝绳，锌铝合金钢丝绳和航空钢丝绳等。

公司主要产品为光面及镀锌钢丝，光面钢丝绳，镀锌钢丝绳及钢绞线，涂PVC、尼龙钢丝绳，不锈钢钢丝绳，以及各式的链条等。产品远销北美、

南美、欧洲、非洲、东南亚及中东等地区，国内销售覆盖二十多个省自治区，且产品可按各类标准进行生产如：GB、DIN、EN、ASTM、ISO等，产品质量赢得了国内外用户的一致好评。2000年通昌系列钢丝绳获“江苏市场用户满意产品”。

本公司始终坚持“质量第一、用户至上、开拓创新、诚实守信”的经营方针，积极采用严格的科学管理模式，先后获得和通过了“API认证（证书号：9A-0107）”、“ISO9001：2000质量体系认证”、“CE认证”等荣誉证书。

承蒙各界朋友多年的关怀与厚爱，南通神威钢绳以及下属嵘璞钢绳不断取得了快速发展，在业内外，国内外享有了很高的声誉，在企业未来的发展中，我们将本着“诚信 创新 责任 价值”的理念，愿与天下有识之士谋求双赢和价值共享，共赢各界朋友光临指导、洽谈业务。



(江苏嵘璞 — JIANGSU TOPROPE)

Nantong Shenwei Steel Wire Rope Co., Ltd. was established in June 1994 as a modern stock company, with registration capital of 8.88 million. It is a civic “AAA” enterprise with a total area of 35,000m<sup>2</sup>, building area of 20,000m<sup>2</sup>, and fixed assets of 15 million. It owns 400 highly skilled workers and 48 quality technicians. Shenwei Company specializes in the manufacture of steel wire and steel wire rope with an annual yield of nearly 20,000 tons. The plant is equipped with over 150 production apparatus for wire drawing, twisting, jointing, galvanizing and heat-treatment processing. Furthermore, it has more than ten quality control equipment to monitor the production flow and ensure the products quality. Sewage disposal installations are also used to meet the requirements of environment protection.

To meet the needs of future development of enterprise, Shenwei voted heavily to build a modern professional manufacturing facility in 2020 (Jiangsu Toprope Steel Wire Rope Co., LTD.). The com. has registration capital of (RMB)twelve million Yuan, a total area of 24000m<sup>2</sup> and an annual yield of nearly 12000tons. Its main products are galvanized steel wire rope with thick zinc coated, Alu-Zinc Alloy steel wire rope, steel wire rope for aerospace control etc.

The main products of Shenwei are ungalvanized and galvanized steel wire and steel wire rope & strands, PVC & Nylon coated steel wire rope, stainless steel wire rope, as well as different kinds of chains. The products have not only been sold well in the domestic market, but also exported to

many countries and regions including North America, South America, Europe, Africa, Southeast Asia, Middle East etc. In addition, the products can be produced according to all kinds of standard, such as GB, DIN, EN, ASTM, etc. The product quality is highly appraised and “Tongchang” Brand of steel wire rope has been awarded “Jiangsu Provincial satisfactory product” in 2000.

The company guideline is that “Quality and Customer First, innovation and honest based.” Shenwei has obtained “API certification (License No. 9A-0107)”, “ISO 9001-2008 certification”, “CE certification for steel wire rope sling, chains & chain sling”.

Being indebted of the support and great kindness of friends from all walks of life, Shenwei has achieved fast development and enjoyed high reputation both at home and abroad. During the future development of enterprise, we will hold high the banner of “INTEGRITY, INNOVATION, RESPONSIBILITY AND VALUE”. We wish to seek for win-win business and share value with people of insight. Welcome friends from all over the world for guidance and discussion.



## Qualification honor 资质荣誉

管理重在细节，细节决定品质。  
Management focuses on details, and details determine quality.



公司实施科技兴企，不断提高产品质量的同时，获得了诸多荣誉，荣誉是成长的足迹，更是继续开拓的动力。神威人在荣誉面前不淡忘危机意识，奋进路上不松懈前进的步伐。

Our company invigorates business through science and technology. On improving the quality of products continuously, we won many honors. Honor is footprint of growth, as well as the power to drive us to exploit constantly. Shenwei people do not forget crisis awareness in front of the honors, but to march forward ceaselessly.

诚信 | 创新 | 责任 | 价值 HONESTY, INNOVATION, RESPONSIBILITY, WORTH



## Production workshop 生产车间



品质是企业的灵魂，是鞭策我们不断进步的源动力。

一直以来，为了让我们的产品经得起时间的考验，更耐久、更可靠，我们不断超越自我！

Quality is the soul of company, is the impulsion to drive us forward constantly. From the first we surpass ourselves continuously to make our products stand the test of time more endure more credible.

## Production workshop 生产车间

工欲善其事，必先利其器。

If a worker wants to do his job well,  
he must first sharpen his tools.



因为专业 我们值得信赖  
因为努力 我们做的更好

Professionalism makes us trustworthy  
Efforts let us do better.

神威为每一位客户提供一流的质量保证和可靠的安全性能，并随时与用户保持紧密的联系，按照世界各地客户的要求灵活调配工艺、安全组织生产，确保每一笔订单的准确及时交货。

Shenwei provides with top quality guarantee and reliable safety capability to every client, keeps close connect with them at any moment, and adjusts the artworks and organizes safe production as per different requirement from global customers, in order to ensure the delivery on time of each order.

技术和人力资源的不断投入  
赋予客户超乎寻常的价值！

Constant input of technology and manpower endows  
clients with extraordinary value.



## Testing Equipment 检测设备



## Our products 我们的产品

创新无止境，打造神威品牌！  
Innovation is endless,  
creating a Shenwei brand!

我们将品质管理的理念，贯彻到生产的每个环节，从供应商的选择、原材料的采购检验开始做起，以一流的生产技术和严格的质量检测监控程序，回报给客户高质量的钢绳、钢丝产品。

From the choice of supplier and purchase & inspection of raw material, with the first-class production technology and strict quality control process, we transact the idea of quality management into every production link and requite all clients with steel wire rope and steel wire products with high quality.

### 争做全球高性能优质钢绳钢丝的优秀供应商

To become the world's outstanding supplier with high-quality steel wire rope.



# How to order 如何订货

订购钢丝绳，需提供以下信息，\*为关键信息

When you want to buy steel wire ropes, please give us information as follow.



## 钢丝绳主要用途推荐

Purpose: application of the rope



### 立井提升

vertical well hoisting  
cons: 6x19S 6x16W  
6x25Fi 6x29Fi 6x26WS  
6x31WS 6X36WS  
6X41WS



### 电梯用钢丝绳

lifts/elevator  
cons: 6x19S+FC  
6X19W+FC 6X25Fi+FC  
8X19S+FC 8X19W+FC  
8X25Fi+FC 6X36WS+FC  
8X19S+IWR 8X19W+IWR  
8X25Fi+IWR



### 航空用钢丝绳

aircraft/aerospace controls  
cons: 6x7+FC 7X7  
6X19+FC 7X19



### 起重机吊篮

hoist basket/nacelle machine  
cons: 4x31(ws)+PPC  
4x25(Fi)+PPC  
4x26(ws)+PPC



### 渔业拖网

fishing industry  
cons: 6x24 6X24S  
6X24W 6X19 6X19S  
6X19W+FC 6X31WS  
6X36WS 6X37 6X37S



### 其他用途

other application  
cons: 6x37+IWR  
6X12+7FC  
6X24+7FC 35X7  
19X7 6X19+FC 19X7

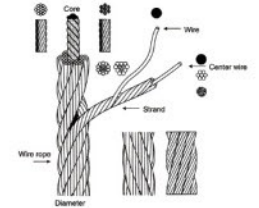
## \* 结构 Construction

### 1.点接触钢丝绳 Point contact lay steel wire rope:

股中钢丝直径均相同，各层钢丝之间捻角相同，捻距不同，所以内外层钢丝相互交叉，呈点接触状态。

典型结构:6x7, 6x19, 6x37

The diameter of wires in the strand is the same, and the twist Angle between each layer is the same, but the lay length is different, so the adjacent layers of wire cross each other, in the form of point contact.  
Typical:6x7,6x19,6x37



### 2.线接触钢丝绳 linear contact lay wire rope:

股中各层钢丝的捻距相同捻角不同，内外层钢丝互相接触在一条螺旋线上，呈线接触状态。股由不同直径的钢丝捻制而成。

典型结构:6x19S, 6x19W, 6x36WS, 6X25Fi

Each layer of wire in the strand has the same lay length but different twist Angle. Not only the wire of the same layer is in linear contact form, but also the wire of each adjacent layer is in linear contact. Strands are twisted by different diameters of wire.

Typical:6x19S,6x19W,6x36WS,6X25Fi

### 6x19+FC(1+6+12):

钢丝绳的每根钢丝直径相同，由6根钢股围绕绳芯-麻芯捻制而成。每股由19根钢丝捻制而成。一共有:6x19=114根钢丝。

第一步:以一根钢丝为中心,再用6根钢丝围绕其捻制成结构为1x7的股。

第二步:以1x7的钢股为中心,再用12根钢丝围绕其捻制成结构为1x19的股。

最后:用6根1x19的股围绕麻芯捻制成绳,绳结构即为:6x19+FC

The rope is twisted by 6 strands around the fiber core and each strand is twisted by 19 wires. Each wire is in same size, total:114wires

1. Using a steel wire as the core, and 6 wires are wrapped around it to make a strand-1x7
2. Take 1x7 as the core, then twisted 12 wires around it to make a strand-1x19
3. Finally, six strands(1X19) are twisted around the fiber core to make the rope:6x19+FC



### 8x25Fi+FC(1+6+6F+12):

钢丝绳由8根股绕麻芯捻制而成，每股25根钢丝，一共:8x25=200根钢丝。

股中最外两层钢丝之间以较小直径的钢丝填充。

从而减小了绳内部的摩擦损耗，使绳具有更好的抗挤压和抗疲劳性能。

The rope is twisted by 8 strands around the fiber core and each strand is twisted by 25 wires, total:200wires.

The outermost two layers are filled with smaller diameter steel wire.

So the internal friction loss will be reduced, that makes the rope has better resistant to extrusion and fatigue.



## 点接触与线接触钢丝绳的区别 difference

与线接触钢丝绳相比，点接触钢丝绳较软一些。

由于股中相邻层钢丝之间呈点接触形式，钢丝容易松散，使用时绳中钢丝之间易产生滑动。此外，它还具有较高的弯曲应力以及较差的抗疲劳性能，这些都使绳子的使用寿命较短一些。

而线接触钢丝绳的钢股结构更为紧凑。

因此，钢丝绳工作时可减少股中钢丝之间的滑动，而且其密度较高，扭转后的强度损失小于点接触钢丝绳，这些特性都体现出线接触钢丝绳较长的使用寿命。

当直径，抗拉强度相同时，与点接触钢丝绳相比，线接触钢丝绳的破断拉力更高，可以承载更多的重量。

据此特性，线接触钢丝绳在立井提升，电梯绳，吊篮用钢丝绳，不同用途的起重机等多领域中得到广泛应用。

Compared with linear contact lay steel wire rope, the point contact one is softer.

Due to the contact form between the adjacent layers of wire in the strand is point contact, the structure of strand is easy to loose. Besides, its bending stress is high and fatigue resistance is worse. All of these lead to its shorter service life.

While the strand structure of linear contact lay wire rope is tighter. So the sliding between the wires in the strand can be reduced when it is working, this shows its longer service life. Moreover, its density is higher and the strength loss after twisting is less than the point contact one.

When in same diameter and tensile strength, it has higher breaking load, which can carry more weight than the point contact one.

So according to the characteristics of the linear contact wire rope. It is widely used in: vertical well hoisting, elevators, hoist basket, different kinds of cranes and so on.

# How to order 如何订货

## \* 钢丝绳表面处理, 材质 Coating/Surface

发黑或光面  
Bright / Black or Ungalvanized



镀锌 / 热镀锌或电镀锌  
Galvanized / Hot dipped galvanized  
or Electric galvanized



涂塑 PVC PE PA 尼龙  
Coated PVC PE PA Nylon



不锈钢 / 材料:304 316 316L  
Stainless / MATERIAL:304 316 316L



## 镀锌钢丝绳分类 Galvanized

### 热镀锌钢丝绳 Hot dipped galvanized:

是将除锈后的钢件浸入融化的锌液中,使钢件表面附着锌层,从而起到防腐的目的。与电镀锌相比,具有更强的防锈、耐腐蚀能力,镀锌层更厚,使用寿命更长且由于表面有锌铁合金层,颜色要发乌一些。

Immerse the wire which has been derusted into the molten zinc solution to coat the surface with zinc. Compared with the electric galvanized one, it is more antirust and corrosion-resistant and has thicker zinc-coat which all lead to a longer service life.

例:6x19+FC-12.7mm(钢丝的公称直径为0.81mm),  
当其电镀锌时,镀锌层重量为10-15g/mm<sup>2</sup>。  
当其热镀锌时,镀锌层的最小重量会因标准的不同而有所区别:  
ISO2408-2004:B级镀锌层的最小重量为60g/mm<sup>2</sup>;  
GB/T 20118-2006:B级为66g/mm<sup>2</sup>;  
BS EN 10264-2:2012中:B级为75g/mm<sup>2</sup>;  
API SPEC 9A:B级为60g/mm<sup>2</sup>。

### 电镀锌钢丝绳 Electric galvanized:

利用电解,在钢件表面形成均匀、致密、结合良好的金属或合金沉积层。由于钢件表面没有发生化学反应所以还是锌的本色,看上去颜色较亮。其生产工艺稍简单,成本比热镀锌的低。

Coat the zinc layer by electricity through an external power source. There is no chemical reaction on its surface, so it is still the natural color of zinc, which looks brighter than the hot dipped one. Its cost is lower than the hot dipped one due to the simpler production process.

For example, 6x19+FC-12.7mm(nominal diameter of wire is 0.81mm), when it is electric galvanized, the thickness of the zinc-coat is only 10-15g/mm<sup>2</sup>. However when it is a hot dipped one, the minimum mass of zinc coating will vary by different standards as below:  
In ISO2408-2004, the minimum mass of zinc coating is 60g/mm<sup>2</sup> in class B.  
In GB/T 20118-2006: it's 66g/mm<sup>2</sup> in Class B.  
In BS EN 10264-2:2012: it's 75g/mm<sup>2</sup> in Class B.  
In API SPEC 9A: it's 60g/mm<sup>2</sup> in Class B.

## \* 绳芯类型 Type of core

纤维芯  
Fiber Core

### 黄麻芯 JC(jute core):

较之剑麻芯更为柔软,成本更低  
Softer, lower cost

### 剑麻芯 SC(sisal core):

较之黄麻芯有更高的强度以及更好的抗腐蚀性  
High strength, corrosion resistance

### 塑料芯 PPC(plastic core):

良好的耐腐蚀性、耐高压性  
Good corrosion resistance,  
high pressure resistance

钢芯  
Steel Core

### 绳芯(IWSC):

是一根结构为7X7=6X7+IWSC的钢丝绳  
is an independent steel wire rope:6X7+IWSC=7X7

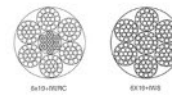
### 股芯(IWSC):

股芯的结构和钢丝绳其他的钢股一样

例: 6x19+IWSC, 股芯结构为1x19,  
而其他6根股的结构也为:1x19  
The construction of steel core is same as other strands.  
For example: 6x19+IWSC, the construction of steel core is 1x19, which is same as other 6 strands.

## 麻芯与钢芯的区别

### Difference between fiber core and steel core:



在相同结构和直径的前提下,钢芯钢丝绳的每米重量和最小破断拉力均高于纤维芯钢丝绳。此外,它具有较高的耐磨性、抗挤压性,使用寿命更长。但纤维芯绳更柔软,成本更低。

Under the premise of the same construction and diameter, the weight of per meter and the MBL of the rope with steel core are higher than the rope with fiber core. Besides, it is more wear-resistant, anti-extrusion, which lead to a longer service life. But the fiber core rope is more softer and flexible, the cost is lower.

## \* 钢丝绳的捻向 Lay direction



### 交互捻与同向捻的区别 Difference:

#### 当绳子与股的捻制方向相反时:

- 1.表面钢丝支撑面积小,摩擦损耗大,易造成表面钢丝断裂。
- 2.钢丝在扭曲时变形大,柔韧性差。在使用中,钢丝易受到很大的弯曲应力。
- 3.优点:使用时钢丝不易松脱,绳索不易旋转。

#### 当绳子与股的捻制方向相同时:

同向捻的绳子很容易旋转,钢丝很容易松开。但它具有良好的耐磨性、抗疲劳性以及柔韧性,这些都使其有一个较长的使用寿命。

#### When the rope is twisted in the opposite direction to the strand:

- 1.The supporting area of the surface steel wire is small and the friction loss is big, which cause the surface wires to break easily.
- 2.The deformation of wires is large when it is twisted,the flexibility is poor. When in use,wires are subjected to large bending stress.
- 3.Advantages:Steel wires are not easy to loose and the rope is not easy to rotate when using.

#### When the rope and strands are twisted in the same direction:

It has good wear resistance, bending fatigue resistance and flexibility, these all contribute to a longer service life. But this type of rope rotates easily and its wires are easy to loose.

## \* 涂油方式 Lubrication

### 主要针对光面钢丝绳 Ungalvanized:



A-1:股涂薄油,涂黄色表面脂(均匀涂油,表面干净)  
STRANDS SLIGHTLY GREASED, YELLOW GREASE  
A-2:股涂油,涂黄色表面脂  
STRANDS GREASED, YELLOW GREASE  
A-3:股厚涂油,涂黄色表面脂  
STRANDS HEAVY GREASED, YELLOW GREASE

C-type:股涂油,涂黑色沥青油  
STRANDS GREASED, BLACK ASPHALT GREASE  
股涂油,涂电梯绳专用油  
STRANDS GREASED, SPECIAL GREASE FOR ELEVATOR ROPE

## 其他询价相关信息 Other relevant information

抗拉强度:Tensile Strength:1570MPA-1960MPA PS-EIPS

最小破断拉力(千牛或磅):Minimum breaking load: in KN or pounds

长度 length(米或英尺):In meters or feet

标准 standard:GB, DIN, ISO, EN, JIS, BS, ASTM

包装 package(主要根据单卷绳长以及客户要求):According to length of per reel and customer's request

质保书以及唛头(据客户要求而定):Mill certificate and shipping marks

## 钢丝绳重量系数和最小破断拉力系数

Wire rope and the minimum weight coefficient breaking strength coefficient

| 组别 | 类别      | 钢丝绳重量系数 K               |                 |                | K <sub>2</sub> /K <sub>1n</sub> | K <sub>2</sub> /K <sub>1p</sub> | 最小破断拉力系数 K'      |                  | K <sub>2</sub> '/K <sub>1</sub> ' |  |  |  |
|----|---------|-------------------------|-----------------|----------------|---------------------------------|---------------------------------|------------------|------------------|-----------------------------------|--|--|--|
|    |         | 天然纤维<br>芯钢丝绳            | 合成纤维<br>芯钢丝绳    | 钢 芯<br>钢丝绳     |                                 |                                 | 纤维芯<br>钢丝绳       | 钢 芯<br>钢丝绳       |                                   |  |  |  |
|    |         | K <sub>1n</sub>         | K <sub>1p</sub> | K <sub>2</sub> |                                 |                                 | K <sub>1</sub> ' | K <sub>2</sub> ' |                                   |  |  |  |
|    |         | kg/100m.mm <sup>2</sup> |                 |                |                                 |                                 |                  |                  |                                   |  |  |  |
| 1  | 6x7     | 0.351                   | 0.344           | 0.387          | 1.10                            | 1.12                            | 0.332            | 0.359            | 1.08                              |  |  |  |
| 2  | 6x19(a) | 0.380                   | 0.371           | 0.418          | 1.10                            | 1.13                            | 0.330            | 0.356            | 1.08                              |  |  |  |
| 3  | 6x37(a) |                         |                 |                |                                 |                                 |                  |                  |                                   |  |  |  |
| 4  | 6x19(b) | 0.346                   | 0.337           | 0.381          | 1.10                            | 1.13                            | 0.307            | 0.332            | 1.08                              |  |  |  |
| 3  | 6x37(b) | 0.346                   | 0.337           | 0.381          | 1.10                            | 1.13                            | 0.295            | 0.319            | 1.08                              |  |  |  |
| 4  | 8x19    | 0.357                   | 0.344           | 0.435          | 1.22                            | 1.26                            | 0.293            | 0.346            | 1.18                              |  |  |  |
| 5  | 8x37    |                         |                 |                |                                 |                                 |                  |                  |                                   |  |  |  |
| 6  | 17x7    | 0.390                   |                 |                | --                              | --                              | 0.328            |                  | --                                |  |  |  |
| 7  | 34x7    | 0.390                   |                 |                | --                              | --                              | 0.318            |                  | --                                |  |  |  |
| 8  | 6x24    | 0.318                   | 0.304           | --             | --                              | --                              | 0.280            | --               | --                                |  |  |  |

注：

- 1、在2组a类和4组钢丝绳中，当股内钢丝的数目为19根或19根以下时，重量系数应比表中所列的数小3%；
- 2、在8组钢丝绳中，股为等捻距结构钢丝绳的重量系数和最小破断拉力系数，应分别比表中所列的数大4%；
- 3、 $K_{1p}$ 重量系数是对聚丙烯纤维芯钢丝绳而言。

### 1、近似重量计算

$$\text{公式: } M = Kd^2$$

式中 M 钢丝绳单位近似重量kg/100m

d 钢丝绳公称直径mm

k 充分涂油某一机构钢丝绳的单位长度重量系数

### 2、整绳破断拉力计算

$$\text{公式: } F_0 = \frac{K_1 \cdot d_2 \cdot R_0}{1000}$$

式中 F<sub>0</sub> 钢丝绳最小破断拉力KN

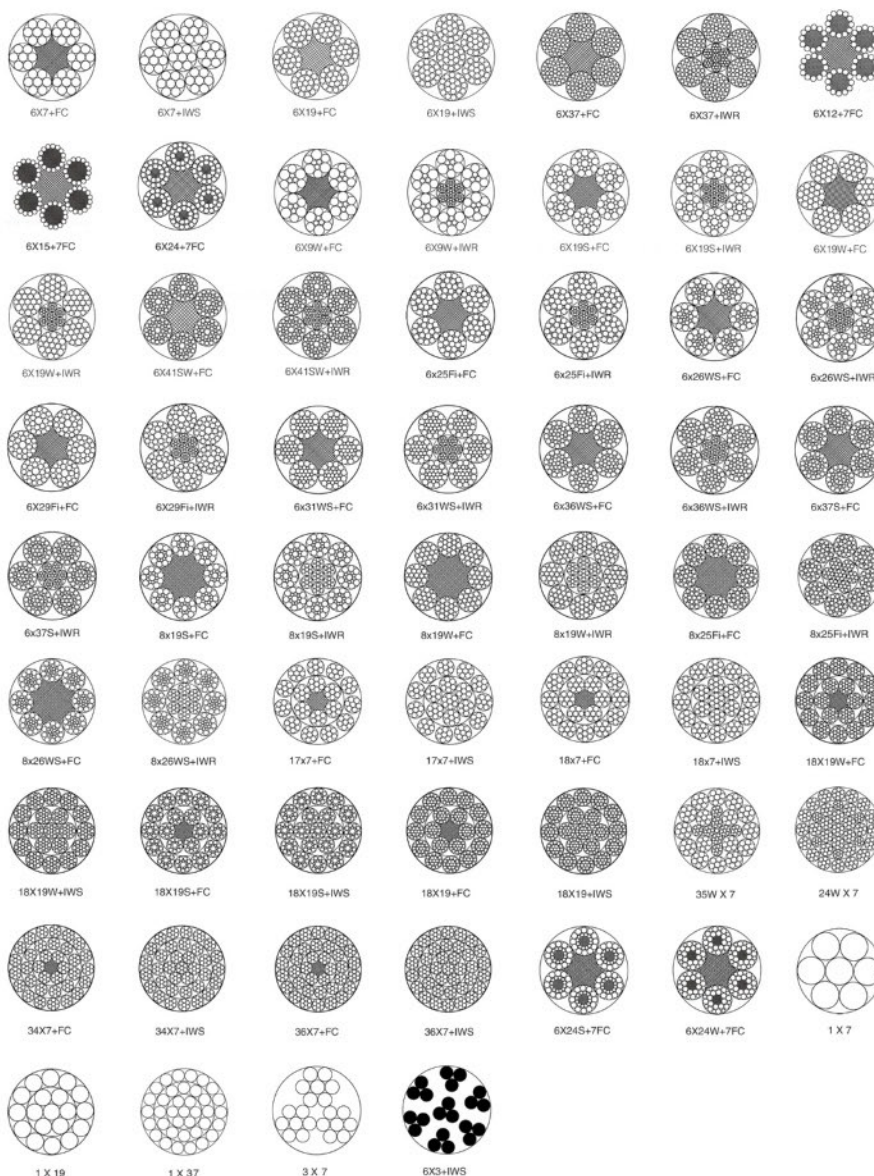
d 钢丝绳公称直径mm

R<sub>0</sub> 钢丝绳公称抗拉强度Mpa

K' 某指定机构钢丝绳的最小破断拉力系数

## 钢丝绳典型结构截面图

typical cross sections of steel rope & strand



## 钢丝绳主要用途推荐表 (GB/T20118-2006)

recommendation form of wire rope application

| 用途<br>application                                                  | 名称<br>name                                                            | 结构<br>construction                                                                                             | 规格<br>specification  | 备注<br>comments                              |
|--------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------|
| 立井提升<br>vertical well<br>hoisting<br>purposes                      | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X19S 6X19W 6X25Fi 6X29Fi 6X26WS<br>6X31WS 6X36WS 6X41WS                                                       | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
|                                                                    | 多层股钢丝绳<br>multi-strand rope                                           | 18X7 17X7                                                                                                      | 见标准<br>see standards | 用于钢丝绳罐道的立井<br>suitable for rope guide       |
| 开凿立井提升<br>(建井用)<br>well purposes<br>for excavating<br>and hoisting | 多层股钢丝绳及<br>异型股钢丝绳<br>multi-strand rope<br>shaped strand<br>wire ropes | 17X7 18X7 34X7 36X7                                                                                            | 见标准<br>see standards |                                             |
| 立井平衡绳<br>balanced wire<br>to well                                  | 扁钢丝绳<br>flat ropes                                                    | 6X4X7 8X4X7 8X4X9 8X4X19                                                                                       | 见标准<br>see standards |                                             |
|                                                                    | 钢丝绳<br>wire rope                                                      | 6X37 6X37S 6X36WS                                                                                              | 见标准<br>see standards | 仅适用于交互捻<br>only suitable for<br>regular lay |
|                                                                    | 多层股钢丝绳<br>multi-strand rope                                           | 17X7 18X7 34X7 36X7                                                                                            | 见标准<br>see standards |                                             |
| 斜井卷扬 (绞车)<br>for winch<br>purposes                                 | 钢丝绳<br>wire rope                                                      | 6TX7 见面接触钢丝绳标准<br>see the standards of facial contacted wire rope                                              | 见标准<br>see standards |                                             |
|                                                                    |                                                                       | 6X7 6X9W                                                                                                       | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
| 高炉卷扬<br>hoisting to<br>inclined well                               | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X19S 6X25Fi 6X29Fi 6X26WS 6X31WS<br>6X36WS 6X41WS                                                             | 见标准<br>see standards |                                             |
| 立井罐道<br>及索道承重<br>bearing to tank<br>and cableway                   | 密封钢丝绳<br>full-lock coil ropes                                         | 见密封钢丝绳标准 see the standards of full-lock coil ropes                                                             | 见标准<br>see standards |                                             |
|                                                                    | 多层股钢丝绳<br>multi-strand rope                                           | 18X7 17X7                                                                                                      | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
|                                                                    | 钢丝绳<br>wire rope                                                      | 6X7                                                                                                            | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
| 露天斜坡卷扬<br>hoisting to slope                                        | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X36WS 6X37S 6X41WS 6X49SWS<br>6X55WS                                                                          | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
| 石油钻井<br>for petroleum<br>drilling purposes                         | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X19S 6X19W 6X25Fi 6X29Fi 6X26WS<br>6X31WS 6X36WS                                                              | 见标准<br>see standards | 也可采用钢芯<br>also can use steel core           |
| 皮带输送机及<br>索道牵引、缆车<br>rubber<br>belt conveyer,<br>cableway          | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X19S 6X19W 6X25Fi 6X29Fi 6X26WS<br>6X31WS 6X36WS 6X41WS                                                       | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
| 挖掘机<br>(电铲卷扬)<br>Excavator<br>(winch power<br>shovel)              | 线接触钢丝绳<br>linear contact lay<br>wire rope                             | 6X19S+IWR 6X25Fi+IWR 6X19W+IWR<br>6X29Fi+IWR 6X26WS+IWR<br>6X31SW+IWR<br>6X36SW+IWR 6X55SWS+IWR<br>6X49SWS+IWR | 见标准<br>see standards | 推荐同向捻<br>recommend lang's lay               |
| 渔业拖网<br>fishing industry                                           | 钢丝绳<br>wire rope                                                      | 6X24 6X24S 6X24W<br>6X19 6X19S 6X19W<br>6X31WS 6X36WS 6X37<br>6X37S                                            | 见标准<br>see standards | 镀锌<br>zinc coated                           |
| 捆绑<br>lashing                                                      | 钢丝绳<br>wire rope                                                      | 6X24 6X24S 6X24W                                                                                               | 见标准<br>see standards |                                             |

| 用途<br>use                                                               | 名称<br>name                                                                                                      | 结构<br>construction                                                                           | 规格<br>specification                                                                                                                                       | 备注<br>comments       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 起重<br>crane<br>purpose                                                  | 大型浇筑 / 吊 车<br>large-scale<br>casting,<br>for cranes purposes                                                    | 线接触钢丝绳<br>linear contact lay<br>wire rope                                                    | 6X19S+IWR 6X19W+IWR<br>6X25Fi+IWR 6X36WS+IWR<br>6X41WS+IWR                                                                                                | 见标准<br>see standards |
|                                                                         | 港口装卸和建筑用<br>塔式起重机<br>port loading and<br>unloading and<br>construction purposes,<br>for tower crane<br>purposes | 多层股钢丝绳<br>multi-strand rope                                                                  | 18X19 18X19S 18X19W<br>34X7 36X7                                                                                                                          | 见标准<br>see standards |
|                                                                         | 其他用途<br>other application                                                                                       | 线接触钢丝绳<br>linear contact lay<br>wire rope                                                    | 6X19S 6X19W 6X25Fi<br>6X29Fi 6X26SW 6X31WS<br>6X36WS 6X37S 6X41WS<br>6X49WS 6X55SWS 8X19S<br>8X19W 8X25Fi 8X19S<br>8X31WS 8X36WS 8X41WS<br>8X49WS 8X55SWS | 见标准<br>see standards |
| 热移钢机<br>(轧钢推钢台)<br>heat moving steel machine<br>(moving steel platform) | 线接触钢丝绳<br>linear contact lay<br>wire rope                                                                       | 点接触钢丝绳<br>point contact wire rope                                                            | 6X19 6X37                                                                                                                                                 | 见标准<br>see standards |
|                                                                         |                                                                                                                 | 点接触钢丝绳<br>point contact wire rope                                                            | 6X19+IWR                                                                                                                                                  | 见标准<br>see standards |
| 船舶装卸<br>boat loading and<br>unloading                                   | 线接触钢丝绳<br>linear contact lay<br>wire rope                                                                       | 点接触钢丝绳<br>point contact wire rope                                                            | 6X19 6X37                                                                                                                                                 | 见标准<br>see standards |
|                                                                         |                                                                                                                 | 点接触钢丝绳<br>point contact wire rope                                                            | 6X19 6X37                                                                                                                                                 | 镀锌<br>zinc coated    |
| 拖船、货网<br>浮运木材<br>towboat and loading net,<br>logging purposes           | 钢丝绳<br>wire ropes                                                                                               | 6X24 6X24S 6X24W<br>6X37 6X31WS 6X36WS<br>6X37S                                              | 见标准<br>see standards                                                                                                                                      | 镀锌<br>zinc coated    |
| 船舶张拉桅杆及吊杆<br>fishing boat                                               | 钢丝绳<br>wire ropes                                                                                               | 6X7+IWS 6X19+IWR<br>6X19S+IWR                                                                | 见标准<br>see standards                                                                                                                                      | 镀锌<br>zinc coated    |
| 打捞沉船<br>salvaging sunken vessels                                        | 钢丝绳<br>wire ropes                                                                                               | 6X37 6X37S 6X36SW<br>6X41WS 6X49SWS 6X31WS<br>8X19S 8X19W 8X31SW<br>8X36WS 8X41WS<br>8X49SWS | 见标准<br>see standards                                                                                                                                      | 镀锌<br>zinc coated    |

### 注:

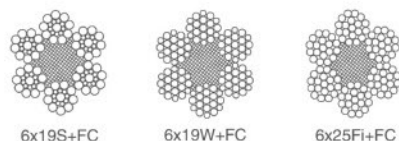
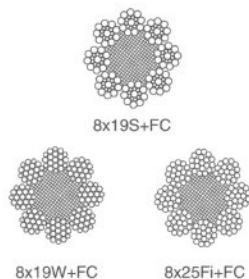
1. 腐蚀是主要报废原因时, 应采用镀锌钢丝绳;
2. 钢丝绳工作时, 终端不能自由旋转, 或虽有反拨力, 但不能相互糾合在一起的工作场合, 应采用同向捻钢丝绳。

note:

1. If the corrosion is main reason of useless, please adopt galvanized wire rope.
2. When wire rope in working condition, the ends can't rotate by itself, or can't twist together although anti-turning force, pls use the ropes in L.H.L.L. or R.H.L.L.

## 电梯用钢丝绳 steel wire rope for lifts

执行标准(standard): GB8903-2005  
和各电梯公司采购要求  
purchase request of different  
elevator company.  
结 构(construction): 股



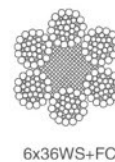
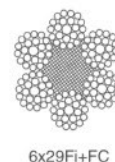
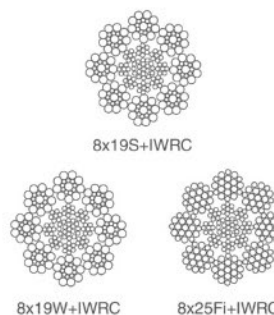
### 力学性能 mechanical property

| 钢丝绳<br>公称直径<br>nominal<br>diameter | 参考重量<br>approx-<br>imate<br>weight | 最小破断拉力 /KN min.breaking strength |           |           |           |                             |      |      |
|------------------------------------|------------------------------------|----------------------------------|-----------|-----------|-----------|-----------------------------|------|------|
|                                    |                                    | 双强度 /Mpa double strength         |           |           |           | 单强度 /Mpa<br>single strength |      |      |
| mm                                 | kg/100m                            | 1180/1770                        | 1320/1620 | 1370/1770 | 1570/1770 | 1570                        | 1620 | 1770 |
| 6                                  | 12.9                               | 16.3                             | 16.8      | 17.8      | 19.5      | 18.7                        | 19.2 | 21.0 |
| 6.3                                | 14.2                               | 17.9                             | -         | -         | 21.5      | -                           | 21.2 | 23.2 |
| 6.5                                | 15.2                               | 19.1                             | 19.7      | 20.9      | 22.9      | 21.9                        | 22.6 | 24.7 |
| 8                                  | 23.0                               | 28.9                             | 29.8      | 31.7      | 34.6      | 33.2                        | 34.2 | 37.4 |
| 9                                  | 29.1                               | 36.6                             | 37.7      | 40.1      | 43.8      | 42.0                        | 43.3 | 47.3 |
| 9.5                                | 32.4                               | 40.8                             | 42.0      | 44.7      | 48.8      | 46.8                        | 48.2 | 52.7 |
| 10                                 | 35.9                               | 45.2                             | 46.5      | 49.5      | 54.1      | 51.8                        | 53.5 | 58.4 |
| 11                                 | 43.4                               | 54.7                             | 54.3      | 59.9      | 65.5      | 62.7                        | 64.7 | 70.7 |
| 12                                 | 51.7                               | 65.1                             | 62.0      | 71.3      | 77.9      | 74.6                        | 77.0 | 84.1 |
| 12.7                               | 57.9                               | 72.9                             | 75.0      | 79.8      | 87.3      | 83.6                        | 86.2 | 94.2 |
| 13                                 | 60.7                               | 76.4                             | 78.6      | 83.7      | 91.5      | 87.6                        | 90.3 | 98.7 |
| 14                                 | 70.4                               | 88.6                             | 91.2      | 97.0      | 106       | 102                         | 105  | 114  |
| 14.3                               | 73.4                               | 92.4                             | -         | -         | 111       | -                           | -    | 119  |
| 15                                 | 80.8                               | 102                              | -         | 111       | 122       | 117                         | -    | 131  |
| 16                                 | 91.9                               | 116                              | 119       | 127       | 139       | 133                         | 137  | 150  |
| 17.5                               | 110                                | 138                              | -         | -         | 166       | -                           | -    | 179  |
| 18                                 | 116                                | 146                              | 151       | 160       | 175       | 168                         | 173  | 189  |
| 19                                 | 130                                | 163                              | 168       | 179       | 195       | 187                         | 193  | 211  |
| 20                                 | 144                                | 181                              | 186       | 198       | 216       | 207                         | 214  | 234  |
| 20.6                               | 152                                | 192                              | -         | -         | 230       | -                           | -    | 248  |
| 22                                 | 174                                | 219                              | 225       | 240       | 262       | 251                         | 259  | 283  |

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 8    | 21.8 | 25.7 | 26.5 | 28.1 | 30.8 | 29.4 | 30.4 | 33.2 |
| 9    | 27.5 | 32.5 | -    | 35.6 | 38.9 | 37.3 | -    | 42.0 |
| 9.5  | 30.7 | 36.2 | 37.3 | 39.7 | 43.6 | 41.5 | 42.8 | 46.8 |
| 10   | 34.0 | 40.1 | 41.3 | 44.0 | 48.1 | 46.0 | 47.5 | 51.9 |
| 11   | 41.1 | 48.6 | 50.0 | 53.2 | 58.1 | 55.7 | 57.4 | 62.8 |
| 12   | 49.0 | 57.8 | 59.5 | 63.3 | 69.2 | 66.2 | 68.4 | 74.7 |
| 12.7 | 54.8 | 64.7 | 66.6 | 70.9 | 77.5 | 74.2 | 76.6 | 83.6 |
| 13   | 57.5 | 67.8 | 69.8 | 74.3 | 81.2 | 77.7 | 80.2 | 87.6 |
| 14   | 66.6 | 78.7 | 81.1 | 86.1 | 94.2 | 90.2 | 93.0 | 102  |
| 14.3 | 69.5 | 82.1 | -    | -    | 98.3 | -    | -    | -    |
| 15   | 76.5 | 90.3 | -    | 98.9 | 108  | 104  | -    | 117  |
| 16   | 87.0 | 103  | 106  | 113  | 123  | 118  | 122  | 133  |
| 17.5 | 104  | 123  | -    | -    | 147  | -    | -    | -    |
| 18   | 110  | 130  | 134  | 142  | 156  | 149  | 154  | 168  |
| 19   | 123  | 145  | 149  | 159  | 173  | 166  | 171  | 187  |
| 20   | 136  | 161  | 165  | 176  | 192  | 184  | 190  | 207  |
| 20.6 | 144  | 170  | -    | -    | 204  | -    | -    | -    |
| 22   | 165  | 194  | 200  | 213  | 233  | 223  | 230  | 251  |

## 电梯用钢丝绳 steel wire rope for lifts

执行标准(standard): GB8903-2005  
和各电梯公司采购要求  
purchase request of different  
elevator company.  
结 构(construction): 股



### 力学性能 mechanical property

| 钢丝绳<br>公称直径<br>nominal<br>diameter | 参考重量<br>approx-<br>imate<br>weight | 最小破断拉力 /KN min.breaking strength |           |           |                             |      |  |
|------------------------------------|------------------------------------|----------------------------------|-----------|-----------|-----------------------------|------|--|
|                                    |                                    | 双强度 /Mpa double strength         |           |           | 单强度 /Mpa<br>single strength |      |  |
| mm                                 | kg/100m                            | 1180/1770                        | 1370/1770 | 1570/1770 | 1570                        | 1770 |  |
| 8                                  | 26.0                               | 33.6                             | 35.8      | 38.0      | 35.8                        | 40.3 |  |
| 9                                  | 33.0                               | 42.5                             | 45.3      | 48.2      | 45.3                        | 51.0 |  |
| 9.5                                | 36.7                               | 47.4                             | 50.4      | 53.7      | 50.4                        | 56.9 |  |
| 10                                 | 40.7                               | 52.5                             | 55.9      | 59.5      | 55.9                        | 63.0 |  |
| 11                                 | 49.2                               | 63.5                             | 67.6      | 79.1      | 67.6                        | 76.2 |  |
| 12                                 | 58.6                               | 75.6                             | 80.5      | 85.6      | 80.5                        | 90.7 |  |
| 12.7                               | 65.6                               | 84.7                             | 90.1      | 95.9      | 90.1                        | 102  |  |
| 13                                 | 68.8                               | 88.7                             | 94.5      | 100       | 94.5                        | 105  |  |
| 14                                 | 79.8                               | 102                              | 110       | 117       | 110                         | 124  |  |
| 15                                 | 91.6                               | 118                              | 126       | 134       | 126                         | 142  |  |
| 16                                 | 104                                | 134                              | 143       | 152       | 143                         | 161  |  |
| 18                                 | 132                                | 170                              | 181       | 193       | 181                         | 201  |  |
| 19                                 | 147                                | 190                              | 202       | 216       | 202                         | 227  |  |
| 20                                 | 163                                | 210                              | 224       | 238       | 224                         | 252  |  |
| 22                                 | 197                                | 254                              | 271       | 288       | 271                         | 305  |  |

| 钢丝绳<br>公称直径<br>nominal<br>diameter | 参考重量<br>approx-<br>imate<br>weight | 钢丝绳类别<br>category            | 最小破断拉力 /KN<br>min.breaking strength |          |          |
|------------------------------------|------------------------------------|------------------------------|-------------------------------------|----------|----------|
|                                    |                                    |                              | 1570 Mpa                            | 1770 Mpa | 1960 Mpa |
| 24                                 | 211                                | 6x36 类别<br>(包括6x36WS和6x29Fi) | 298                                 | 336      | 373      |
| 25                                 | 229                                |                              | 324                                 | 365      | 404      |
| 26                                 | 248                                |                              | 350                                 | 395      | 437      |
| 27                                 | 268                                |                              | 378                                 | 426      | 472      |
| 28                                 | 288                                |                              | 406                                 | 458      | 507      |
| 29                                 | 309                                |                              | 436                                 | 491      | 544      |
| 30                                 | 330                                |                              | 466                                 | 526      | 582      |
| 31                                 | 353                                |                              | 498                                 | 561      | 622      |
| 32                                 | 376                                |                              | 531                                 | 598      | 662      |
| 33                                 | 400                                |                              | 564                                 | 636      | 704      |
| 34                                 | 424                                |                              | 599                                 | 675      | 748      |
| 35                                 | 450                                |                              | 635                                 | 716      | 792      |
| 36                                 | 476                                |                              | 671                                 | 757      | 838      |
| 37                                 | 502                                |                              | 709                                 | 800      | 885      |
| 38                                 | 530                                |                              | 748                                 | 843      | 934      |

## 航空用钢丝绳

steel wire rope for aerospace control

执行标准(standard): YB/T5197-2005

结构(construction): 股

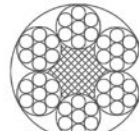
● 适用于重要机械和仪器。

apply to the major machinery and equipment.

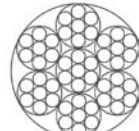
## 力学性能

mechanical property

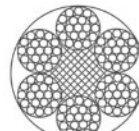
| 钢丝绳直径<br>diameter mm        |                             | 钢丝绳公称<br>抗拉强度(MPa)<br>nominal tensile<br>strength | 钢丝绳最小<br>破断拉力(KN)<br>minimun<br>breaking load | 参考重量<br>approximate<br>weight<br>kg/100m |
|-----------------------------|-----------------------------|---------------------------------------------------|-----------------------------------------------|------------------------------------------|
| 公称直径 mm<br>nominal diameter | 允许偏差 %<br>allowed tolerance |                                                   |                                               |                                          |
| 6x7+FC纤维芯绳                  |                             |                                                   |                                               |                                          |
| 1.8                         | +10<br>0                    | 1 960                                             | 2.3                                           | 1.40                                     |
| 2.15                        | +8<br>0                     | 1 960                                             | 3.3                                           | 2.00                                     |
| 2.5                         |                             |                                                   | 4.5                                           | 2.70                                     |
| 3.05                        |                             | 1 870                                             | 6.3                                           | 4.00                                     |
| 3.6                         | 8.7                         |                                                   | 5.50                                          |                                          |
| 4.1                         | +7<br>0                     | 1 770                                             | 10.4                                          | 7.00                                     |
| 4.5                         |                             |                                                   | 12.8                                          | 8.70                                     |
| 5.4                         |                             | 1 670                                             | 17.5                                          | 12.50                                    |
| 6x7+IWS金属股芯绳                |                             |                                                   |                                               |                                          |
| 1.8                         | +10<br>0                    | 1 870                                             | 2.5                                           | 1.50                                     |
| 2.15                        | +8<br>0                     |                                                   | 3.6                                           | 2.20                                     |
| 2.5                         |                             |                                                   | 5.0                                           | 3.00                                     |
| 3.05                        |                             |                                                   | 7.3                                           | 4.40                                     |
| 3.6                         | +7<br>0                     |                                                   | 10.1                                          | 6.20                                     |
| 4.5                         |                             | 1 770                                             | 15.0                                          | 9.60                                     |
| 5.4                         |                             | 1 670                                             | 20.4                                          | 13.80                                    |
| 6x19+FC纤维芯绳                 |                             |                                                   |                                               |                                          |
| 3                           | +8<br>0                     | 2 060                                             | 6.3                                           | 3.80                                     |
| 3.3                         |                             |                                                   | 6.5                                           | 4.50                                     |
| 3.6                         |                             | 1 770                                             | 7.8                                           | 5.40                                     |
| 4.2                         | 10.6                        |                                                   | 7.40                                          |                                          |
| 4.8                         | 12.9                        |                                                   | 9.00                                          |                                          |
| 5.1                         | 15.6                        |                                                   | 10.90                                         |                                          |
| 6.2                         | 1 670                       |                                                   | 20.3                                          | 15.00                                    |
| 6x19+IWS金属股芯绳               |                             |                                                   |                                               |                                          |
| 3                           | +8<br>0                     | 2 060                                             | 7.3                                           | 4.20                                     |
| 3.2                         |                             | 2 160                                             | 8.9                                           | 4.30                                     |
| 3.6                         |                             | 1 770                                             | 9.1                                           | 6.00                                     |
| 4.2                         | 12.3                        |                                                   | 8.20                                          |                                          |
| 5.1                         | 18.2                        |                                                   | 12.10                                         |                                          |
| 6                           | 23.7                        |                                                   | 16.70                                         |                                          |
| 7.5                         | 37.1                        |                                                   | 26.00                                         |                                          |
| 8.25                        | +5<br>0                     | 1 670                                             | 44.9                                          | 32.00                                    |
| 9                           |                             |                                                   | 53.4                                          | 37.60                                    |
| 9.75                        |                             |                                                   | 62.6                                          | 44.10                                    |



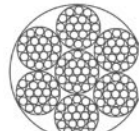
6X7+FC



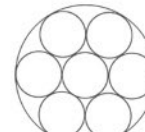
6X7+IWS



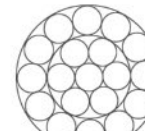
6X19+FC



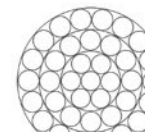
6X19+IWS



1X7



1X19



1X37

## 圆股钢丝绳 [ 光面和镀锌 ]

steel wire rope (ungalvanized and galvanized)

单股绳类/single rope

执行标准(standard):

GB/T 20118-2006

结构(construction): 股

## 力学性能

mechanical property

| 公称直径/mm<br>nominal<br>diameter | 参考重量/(kg/100m)<br>approximate<br>weight | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |
|--------------------------------|-----------------------------------------|-----------------------------------------|-------|-------|-------|
|                                |                                         | 1 570                                   | 1 670 | 1 770 | 1 870 |
|                                |                                         | 钢丝绳最小破断拉力(KN) minimum breaking load     |       |       |       |
| 1.2                            | 0.75                                    | 1.22                                    | 1.30  | 1.38  | 1.45  |
| 1.8                            | 1.69                                    | 2.75                                    | 2.92  | 3.10  | 3.27  |
| 2.4                            | 3.01                                    | 4.88                                    | 5.19  | 5.51  | 5.82  |
| 3                              | 4.70                                    | 7.63                                    | 8.12  | 8.60  | 9.09  |
| 3.6                            | 6.77                                    | 11.0                                    | 11.7  | 12.4  | 13.1  |
| 4.2                            | 9.21                                    | 15.0                                    | 15.9  | 16.9  | 17.8  |
| 4.5                            | 10.6                                    | 17.2                                    | 18.3  | 19.4  | 20.4  |
| 5.1                            | 13.6                                    | 22.1                                    | 23.5  | 24.9  | 26.3  |
| 6                              | 18.8                                    | 30.5                                    | 32.5  | 34.4  | 36.4  |
| 7.2                            | 27.1                                    | 43.9                                    | 46.7  | 49.5  | 52.3  |
| 9                              | 42.3                                    | 68.7                                    | 73.0  | 77.4  | 81.8  |
| 10.5                           | 57.5                                    | 93.5                                    | 99.4  | 105   | 111   |
| 11.5                           | 69.0                                    | 112                                     | 119   | 126   | 134   |
| 12                             | 75.2                                    | 122                                     | 130   | 138   | 145   |

注1: 最小钢丝绳破断拉力总和=钢丝绳最小破断拉力×1.111。

| 公称直径/mm<br>nominal<br>diameter | 参考重量/(kg/100m)<br>approximate<br>weight | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |
|--------------------------------|-----------------------------------------|-----------------------------------------|-------|-------|-------|
|                                |                                         | 1 570                                   | 1 670 | 1 770 | 1 870 |
|                                |                                         | 钢丝绳最小破断拉力(KN) minimum breaking load     |       |       |       |
| 1                              | 0.51                                    | 0.83                                    | 0.89  | 0.94  | 0.99  |
| 2                              | 2.03                                    | 3.33                                    | 3.54  | 3.75  | 3.96  |
| 3                              | 4.56                                    | 7.49                                    | 7.97  | 8.44  | 8.92  |
| 4                              | 8.11                                    | 13.3                                    | 14.2  | 15.0  | 15.9  |
| 5                              | 12.7                                    | 20.8                                    | 22.1  | 23.5  | 24.8  |
| 6                              | 18.3                                    | 30.0                                    | 31.9  | 33.8  | 35.7  |
| 7                              | 24.8                                    | 40.8                                    | 43.4  | 46.0  | 48.6  |
| 8                              | 32.4                                    | 53.2                                    | 56.6  | 60.0  | 63.4  |
| 9                              | 41.1                                    | 67.4                                    | 71.7  | 76.0  | 80.3  |
| 10                             | 50.7                                    | 83.2                                    | 88.6  | 93.8  | 99.1  |
| 11                             | 61.3                                    | 101                                     | 107   | 114   | 120   |
| 12                             | 73.0                                    | 120                                     | 127   | 135   | 143   |
| 13                             | 85.7                                    | 141                                     | 150   | 159   | 167   |
| 14                             | 99.4                                    | 163                                     | 173   | 184   | 194   |
| 15                             | 114                                     | 187                                     | 199   | 211   | 223   |

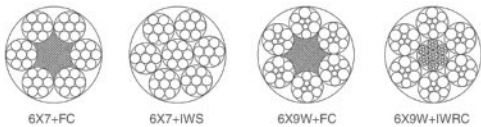
注1: 最小钢丝绳破断拉力总和=钢丝绳最小破断拉力×1.111。

| 公称直径/mm<br>nominal<br>diameter | 参考重量/(kg/100m)<br>approximate<br>weight | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |
|--------------------------------|-----------------------------------------|-----------------------------------------|-------|-------|-------|
|                                |                                         | 1 570                                   | 1 670 | 1 770 | 1 870 |
|                                |                                         | 钢丝绳最小破断拉力(KN) minimun breaking load     |       |       |       |
| 1.4                            | 0.98                                    | 1.51                                    | 1.60  | 1.70  | 1.80  |
| 2.8                            | 3.93                                    | 6.03                                    | 6.42  | 6.80  | 7.18  |
| 3.5                            | 6.14                                    | 9.42                                    | 10.0  | 10.6  | 11.2  |
| 4.9                            | 12.0                                    | 18.5                                    | 19.6  | 20.8  | 22.0  |
| 5.6                            | 15.7                                    | 24.1                                    | 25.7  | 27.2  | 28.7  |
| 7                              | 24.5                                    | 37.7                                    | 40.1  | 42.5  | 44.9  |
| 8.4                            | 35.4                                    | 54.3                                    | 57.7  | 61.2  | 64.7  |
| 9.8                            | 48.1                                    | 73.9                                    | 78.6  | 83.3  | 88.0  |
| 11                             | 60.6                                    | 93.1                                    | 99.0  | 105   | 111   |
| 12                             | 72.1                                    | 111                                     | 118   | 125   | 132   |
| 14                             | 98.2                                    | 151                                     | 160   | 170   | 180   |
| 17                             | 145                                     | 222                                     | 236   | 251   | 265   |
| 18                             | 162                                     | 249                                     | 265   | 281   | 297   |
| 21                             | 221                                     | 339                                     | 361   | 382   | 404   |

注1: 最小钢丝绳破断拉力总和=钢丝绳最小破断拉力×1.176。

## 圆股钢丝绳 [光面和镀锌]

steel wire rope (ungalvanized and galvanized)



执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于各种缆车、钢丝绳皮带输送机、索道牵引和斜井卷扬。  
for various kind of cable car, belt cinveyer, cable way drawing and slope well winching.

### 力学性能

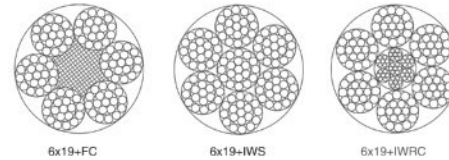
mechanical property

| 钢丝绳<br>公称直径<br>diameter<br>(mm) | 参考重量(kg/100m)<br>approximate weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |
|---------------------------------|-------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                 |                                     |                 |                  | 1570                                    |                  | 1670      |                  | 1770      |                  | 1870      |                  |
|                                 |                                     |                 |                  | 钢丝绳最小破断拉力(KN) minimum breaking load     |                  |           |                  |           |                  |           |                  |
|                                 | 天然<br>纤维芯<br>NF                     | 合成<br>纤维芯<br>SF | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC                               | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |
| 1.8                             | 1.14                                | 1.11            | 1.25             | 1.69                                    | 1.83             | 1.80      | 1.94             | 1.90      | 2.06             | 2.01      | 2.18             |
| 2                               | 1.40                                | 1.38            | 1.55             | 2.08                                    | 2.25             | 2.22      | 2.40             | 2.35      | 2.54             | 2.48      | 2.69             |
| 3                               | 3.16                                | 3.10            | 3.48             | 4.69                                    | 5.07             | 4.99      | 5.40             | 5.29      | 5.72             | 5.59      | 6.04             |
| 4                               | 5.62                                | 5.50            | 6.19             | 8.34                                    | 9.02             | 8.87      | 9.59             | 9.40      | 10.2             | 9.93      | 10.7             |
| 5                               | 8.78                                | 8.60            | 9.68             | 13.0                                    | 14.1             | 13.9      | 15.0             | 14.7      | 15.9             | 15.5      | 16.8             |
| 6                               | 12.6                                | 12.4            | 13.9             | 18.8                                    | 20.3             | 20.0      | 21.6             | 21.2      | 22.9             | 22.4      | 24.2             |
| 7                               | 17.2                                | 16.9            | 19.0             | 25.5                                    | 27.6             | 27.2      | 29.4             | 28.8      | 31.1             | 30.4      | 32.9             |
| 8                               | 22.5                                | 22.0            | 24.8             | 33.4                                    | 36.1             | 35.5      | 38.4             | 37.6      | 40.7             | 39.7      | 43.0             |
| 9                               | 28.4                                | 27.9            | 31.3             | 42.2                                    | 45.7             | 44.9      | 48.6             | 47.6      | 51.5             | 50.3      | 54.4             |
| 10                              | 35.1                                | 34.4            | 38.7             | 52.1                                    | 56.4             | 55.4      | 60.0             | 58.8      | 63.5             | 62.1      | 67.1             |
| 11                              | 42.5                                | 41.6            | 46.8             | 63.1                                    | 68.2             | 67.1      | 72.5             | 71.1      | 76.9             | 75.1      | 81.2             |
| 12                              | 50.5                                | 49.5            | 55.7             | 75.1                                    | 81.2             | 79.8      | 86.3             | 84.6      | 91.5             | 89.4      | 96.7             |
| 13                              | 59.3                                | 58.1            | 65.4             | 88.1                                    | 95.3             | 93.7      | 101              | 99.3      | 107              | 105       | 113              |
| 14                              | 68.8                                | 67.4            | 75.9             | 102                                     | 110              | 109       | 118              | 115       | 125              | 122       | 132              |
| 16                              | 89.9                                | 88.1            | 99.1             | 133                                     | 144              | 142       | 153              | 150       | 163              | 159       | 172              |
| 18                              | 114                                 | 111             | 125              | 169                                     | 183              | 180       | 194              | 190       | 206              | 201       | 218              |
| 20                              | 140                                 | 138             | 155              | 208                                     | 225              | 222       | 240              | 235       | 254              | 248       | 269              |
| 22                              | 170                                 | 166             | 187              | 252                                     | 273              | 268       | 290              | 284       | 308              | 300       | 325              |
| 24                              | 202                                 | 198             | 223              | 300                                     | 325              | 319       | 345              | 338       | 366              | 358       | 387              |
| 26                              | 237                                 | 233             | 262              | 352                                     | 381              | 375       | 405              | 397       | 430              | 420       | 454              |
| 28                              | 275                                 | 270             | 303              | 409                                     | 442              | 435       | 470              | 461       | 498              | 487       | 526              |
| 30                              | 316                                 | 310             | 348              | 469                                     | 507              | 499       | 540              | 529       | 572              | 559       | 604              |
| 32                              | 359                                 | 352             | 396              | 534                                     | 577              | 568       | 614              | 602       | 651              | 636       | 687              |
| 34                              | 406                                 | 398             | 447              | 603                                     | 652              | 641       | 693              | 679       | 735              | 718       | 776              |
| 36                              | 455                                 | 446             | 502              | 676                                     | 730              | 719       | 777              | 762       | 824              | 805       | 870              |

注1:最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.134(纤维芯)或1.214(钢芯)。

## 圆股钢丝绳 [光面和镀锌]

steel wire rope (ungalvanized and galvanized)



执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于起重吊装、热移钢机, 起重机械、渔业拖网。  
for lifting machine, fish net dragging, heat steel-moving machine.

### 力学性能

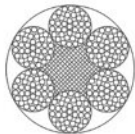
mechanical property

| 钢丝绳<br>公称直径<br>diameter<br>(mm) | 参考重量(kg/100m)<br>approximate weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |
|---------------------------------|-------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                 |                                     |                 |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  |
|                                 |                                     |                 |                  | 钢丝绳最小破断拉力(KN) minimum breaking load     |                  |           |                  |           |                  |           |                  |
|                                 | 天然<br>纤维芯<br>NF                     | 合成<br>纤维芯<br>SF | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC                               | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |
| 3                               | 3.16                                | 3.10            | 3.60             | 4.34                                    | 4.69             | 4.61      | 4.99             | 4.89      | 5.29             | 5.17      | 5.59             |
| 4                               | 5.62                                | 5.50            | 6.40             | 7.71                                    | 8.34             | 8.20      | 8.87             | 8.69      | 9.40             | 9.19      | 9.93             |
| 5                               | 8.78                                | 8.60            | 10.0             | 12.0                                    | 13.0             | 12.8      | 13.9             | 13.6      | 14.7             | 14.4      | 15.5             |
| 6                               | 12.6                                | 12.4            | 14.4             | 17.4                                    | 18.8             | 18.5      | 20.0             | 19.6      | 21.2             | 20.7      | 22.4             |
| 7                               | 17.2                                | 16.9            | 19.6             | 23.6                                    | 25.5             | 25.1      | 27.2             | 26.6      | 28.8             | 28.1      | 30.4             |
| 8                               | 22.5                                | 22.0            | 25.6             | 30.8                                    | 33.4             | 32.8      | 35.5             | 34.8      | 37.6             | 36.7      | 39.7             |
| 9                               | 28.4                                | 27.9            | 32.4             | 39.0                                    | 42.2             | 41.6      | 44.9             | 44.0      | 47.6             | 46.5      | 50.3             |
| 10                              | 35.1                                | 34.4            | 40.0             | 48.2                                    | 52.1             | 51.3      | 55.4             | 54.4      | 58.8             | 57.4      | 62.1             |
| 11                              | 42.5                                | 41.6            | 48.4             | 58.3                                    | 63.1             | 62.0      | 67.1             | 65.8      | 71.1             | 69.5      | 75.1             |
| 12                              | 50.5                                | 50.0            | 57.6             | 69.4                                    | 75.1             | 73.8      | 79.8             | 78.2      | 84.6             | 82.7      | 89.4             |
| 13                              | 59.3                                | 58.1            | 67.6             | 81.5                                    | 88.1             | 86.6      | 93.7             | 91.8      | 99.3             | 97.0      | 105              |
| 14                              | 68.8                                | 67.4            | 78.4             | 94.5                                    | 102              | 100       | 109              | 107       | 115              | 113       | 122              |
| 16                              | 89.9                                | 88.1            | 102              | 123                                     | 133              | 131       | 142              | 139       | 150              | 147       | 159              |
| 18                              | 114                                 | 111             | 130              | 156                                     | 169              | 166       | 180              | 176       | 190              | 186       | 201              |
| 20                              | 140                                 | 138             | 160              | 193                                     | 208              | 205       | 222              | 217       | 235              | 230       | 248              |
| 22                              | 170                                 | 166             | 194              | 233                                     | 252              | 248       | 268              | 263       | 284              | 278       | 300              |
| 24                              | 202                                 | 198             | 230              | 278                                     | 300              | 295       | 319              | 313       | 338              | 331       | 358              |
| 26                              | 237                                 | 233             | 270              | 326                                     | 352              | 346       | 375              | 367       | 397              | 388       | 420              |
| 28                              | 275                                 | 270             | 314              | 378                                     | 409              | 402       | 435              | 426       | 461              | 450       | 487              |
| 30                              | 316                                 | 310             | 360              | 434                                     | 469              | 461       | 499              | 489       | 529              | 517       | 559              |
| 32                              | 359                                 | 352             | 410              | 494                                     | 534              | 525       | 568              | 557       | 602              | 588       | 636              |
| 34                              | 406                                 | 398             | 462              | 557                                     | 603              | 593       | 641              | 628       | 679              | 664       | 718              |
| 36                              | 455                                 | 446             | 518              | 625                                     | 676              | 664       | 719              | 704       | 762              | 744       | 805              |
| 38                              | 507                                 | 497             | 578              | 696                                     | 753              | 740       | 801              | 785       | 849              | 829       | 896              |
| 40                              | 562                                 | 550             | 640              | 771                                     | 834              | 820       | 887              | 869       | 940              | 919       | 993              |
| 42                              | 619                                 | 607             | 706              | 850                                     | 919              | 904       | 978              | 959       | 1 040            | 1 010     | 1 100            |
| 44                              | 680                                 | 666             | 774              | 933                                     | 1 010            | 993       | 1 070            | 1 050     | 1 140            | 1 110     | 1 200            |
| 46                              | 743                                 | 728             | 846              | 1 020                                   | 1 100            | 1 080     | 1 170            | 1 150     | 1 240            | 1 210     | 1 310            |

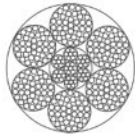
注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.226 (纤维芯) 或 1.321 (钢芯)。

## 圆股钢丝绳 [ 光面和镀锌 ]

steel wire rope (ungalvanized and galvanized)



6X37+FC



6X37+IWR

执行标准(standard): GB/T 20118-2006

结构(construction): 股

● 适用于立井平衡绳、起重机械、船舶装卸、打捞沉船、渔业拖网、起重吊装。  
for vertical well balance, loading and unloading of ship, fish net dragging and salvaging sunken ship.

### 力学性能

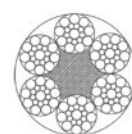
mechanical property

| 钢丝绳<br>公称直径<br>nominal<br>diameter<br>(mm) | 参考重量(kg/100m)<br>approximate weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |
|--------------------------------------------|-------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                            |                                     |                 |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  |
|                                            | 钢丝绳最小破断拉力(KN) minimum breaking load |                 |                  |                                         |                  |           |                  |           |                  |           |                  |
|                                            | 天然<br>纤维芯<br>NF                     | 合成<br>纤维芯<br>SF | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC                               | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |
| 5                                          | 8.65                                | 8.43            | 10.0             | 11.6                                    | 12.5             | 12.3      | 13.3             | 13.1      | 14.1             | 13.8      | 14.9             |
| 6                                          | 12.5                                | 12.1            | 14.4             | 16.7                                    | 18.0             | 17.7      | 19.2             | 18.8      | 20.3             | 19.9      | 21.5             |
| 7                                          | 17.0                                | 16.5            | 19.6             | 22.7                                    | 24.5             | 24.1      | 26.1             | 25.6      | 27.7             | 27.0      | 29.2             |
| 8                                          | 22.1                                | 21.6            | 25.6             | 29.6                                    | 32.1             | 31.5      | 34.1             | 33.4      | 36.1             | 35.3      | 38.2             |
| 9                                          | 28.0                                | 27.3            | 32.4             | 37.5                                    | 40.6             | 39.9      | 43.2             | 42.3      | 45.7             | 44.7      | 48.3             |
| 10                                         | 34.6                                | 33.7            | 40.0             | 46.3                                    | 50.1             | 49.3      | 53.3             | 52.2      | 56.5             | 55.2      | 59.7             |
| 11                                         | 41.9                                | 40.8            | 48.4             | 56.0                                    | 60.6             | 59.6      | 64.5             | 63.2      | 68.3             | 66.7      | 72.2             |
| 12                                         | 49.8                                | 48.5            | 57.6             | 66.7                                    | 72.1             | 70.9      | 76.7             | 75.2      | 81.3             | 79.4      | 85.9             |
| 13                                         | 58.5                                | 57.0            | 67.6             | 78.3                                    | 84.6             | 83.3      | 90.0             | 88.2      | 95.4             | 93.2      | 101              |
| 14                                         | 67.8                                | 66.1            | 78.4             | 90.8                                    | 98.2             | 96.6      | 104              | 102       | 111              | 108       | 117              |
| 16                                         | 88.6                                | 86.3            | 102              | 119                                     | 128              | 126       | 136              | 134       | 145              | 141       | 153              |
| 18                                         | 112                                 | 109             | 130              | 150                                     | 162              | 160       | 173              | 169       | 183              | 179       | 193              |
| 20                                         | 138                                 | 135             | 160              | 185                                     | 200              | 197       | 213              | 209       | 226              | 221       | 239              |
| 22                                         | 167                                 | 163             | 194              | 224                                     | 242              | 238       | 258              | 253       | 273              | 267       | 289              |
| 24                                         | 199                                 | 194             | 230              | 267                                     | 288              | 284       | 307              | 301       | 325              | 318       | 344              |
| 26                                         | 234                                 | 228             | 270              | 313                                     | 339              | 333       | 360              | 353       | 382              | 373       | 403              |
| 28                                         | 271                                 | 264             | 314              | 363                                     | 393              | 386       | 418              | 409       | 443              | 432       | 468              |
| 30                                         | 311                                 | 303             | 360              | 417                                     | 451              | 443       | 479              | 470       | 508              | 496       | 537              |
| 32                                         | 354                                 | 345             | 410              | 474                                     | 513              | 504       | 546              | 535       | 578              | 565       | 611              |
| 34                                         | 400                                 | 390             | 462              | 535                                     | 579              | 570       | 616              | 604       | 653              | 638       | 690              |
| 36                                         | 448                                 | 437             | 518              | 600                                     | 649              | 638       | 690              | 677       | 732              | 715       | 773              |
| 38                                         | 500                                 | 487             | 578              | 669                                     | 723              | 711       | 769              | 754       | 815              | 797       | 861              |
| 40                                         | 554                                 | 539             | 640              | 741                                     | 801              | 788       | 852              | 835       | 903              | 883       | 954              |
| 42                                         | 610                                 | 594             | 706              | 817                                     | 883              | 869       | 940              | 921       | 996              | 973       | 1 050            |
| 44                                         | 670                                 | 652             | 774              | 897                                     | 970              | 954       | 1 030            | 1 010     | 1 090            | 1 070     | 1 150            |
| 46                                         | 732                                 | 713             | 846              | 980                                     | 1 060            | 1 040     | 1 130            | 1 100     | 1 190            | 1 170     | 1 260            |
| 48                                         | 797                                 | 776             | 922              | 1 070                                   | 1 150            | 1 140     | 1 230            | 1 200     | 1 300            | 1 270     | 1 370            |
| 50                                         | 865                                 | 843             | 1 000            | 1 160                                   | 1 250            | 1 230     | 1 330            | 1 300     | 1 410            | 1 380     | 1 490            |
| 52                                         | 936                                 | 911             | 1 080            | 1 250                                   | 1 350            | 1 330     | 1 440            | 1 410     | 1 530            | 1 490     | 1 610            |
| 54                                         | 1 010                               | 983             | 1 170            | 1 350                                   | 1 460            | 1 440     | 1 550            | 1 520     | 1 650            | 1 610     | 1 740            |
| 56                                         | 1 090                               | 1 060           | 1 250            | 1 450                                   | 1 570            | 1 540     | 1 670            | 1 640     | 1 770            | 1 730     | 1 870            |
| 58                                         | 1 160                               | 1 130           | 1 350            | 1 560                                   | 1 680            | 1 660     | 1 790            | 1 760     | 1 900            | 1 860     | 2 010            |
| 60                                         | 1 250                               | 1 210           | 1 440            | 1 670                                   | 1 800            | 1 770     | 1 920            | 1 880     | 2 030            | 1 990     | 2 150            |

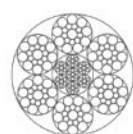
注1: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.249(纤维芯)或1.336(钢芯)。

## 圆股钢丝绳 [ 光面和镀锌 ]

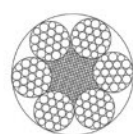
steel wire rope (ungalvanized and galvanized)



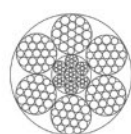
6X19S+FC



6X19S+IWR



6X19W+FC



6X19W+IWR

执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于立井提升、高炉卷扬石油钻井、皮带运输及索道牵引、缆车、挖掘机。  
for vertical well hoisting, blast furnace winching oil well drilling, belt conveyor and cable way drawing, cable car excavator.

### 力学性能

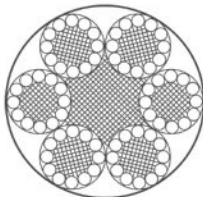
mechanical property

| 钢丝绳<br>公称<br>直径<br><br>nominal<br>diameter<br>(mm) | 参考重量<br>(kg/100m)<br>approximate weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|----------------------------------------------------|-----------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                                    |                                         |                 |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  | 1 960     |                  | 2 160     |                  |
|                                                    |                                         |                 |                  | 钢丝绳最小破断拉力(KN) minimum breaking load     |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|                                                    | NF<br>天然<br>纤维芯                         | SF<br>合成<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯                               | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 |
| 6                                                  | 13.3                                    | 13.0            | 14.6             | 18.7                                    | 20.1             | 19.8      | 21.4             | 21.0      | 22.7             | 22.2      | 24.0             | 23.3      | 25.1             | 25.7      | 27.7             |
| 7                                                  | 18.1                                    | 17.6            | 19.9             | 25.4                                    | 27.4             | 27.0      | 29.1             | 28.6      | 30.9             | 30.2      | 32.6             | 31.7      | 34.2             | 34.9      | 37.7             |
| 8                                                  | 23.6                                    | 23.0            | 25.9             | 33.2                                    | 35.8             | 35.3      | 38.0             | 37.4      | 40.3             | 39.5      | 42.6             | 41.4      | 44.6             | 45.6      | 49.2             |
| 9                                                  | 29.9                                    | 29.1            | 32.8             | 42.0                                    | 45.3             | 44.6      | 48.2             | 47.3      | 51.0             | 50.0      | 53.9             | 52.4      | 56.5             | 57.7      | 62.3             |
| 10                                                 | 36.9                                    | 36.0            | 40.6             | 51.8                                    | 55.9             | 55.1      | 59.5             | 58.4      | 63.0             | 61.7      | 66.6             | 64.7      | 69.8             | 71.3      | 76.9             |
| 11                                                 | 44.6                                    | 43.5            | 49.1             | 62.7                                    | 67.6             | 66.7      | 71.9             | 70.7      | 76.2             | 74.7      | 80.6             | 78.3      | 84.4             | 86.2      | 93.0             |
| 12                                                 | 53.1                                    | 51.8            | 58.4             | 74.6                                    | 80.5             | 79.4      | 85.6             | 84.1      | 90.7             | 88.9      | 95.9             | 93.1      | 100              | 103       | 111              |
| 13                                                 | 62.3                                    | 60.8            | 68.5             | 87.6                                    | 94.5             | 93.1      | 100              | 98.7      | 106              | 104       | 113              | 109       | 118              | 120       | 130              |
| 14                                                 | 72.2                                    | 70.5            | 79.5             | 102                                     | 110              | 108       | 117              | 114       | 124              | 121       | 130              | 127       | 137              | 140       | 151              |
| 16                                                 | 94.4                                    | 92.1            | 104              | 133                                     | 143              | 141       | 152              | 150       | 161              | 158       | 170              | 166       | 179              | 182       | 197              |
| 18                                                 | 119                                     | 117             | 131              | 168                                     | 181              | 179       | 193              | 189       | 204              | 200       | 216              | 210       | 226              | 231       | 249              |
| 20                                                 | 147                                     | 144             | 162              | 207                                     | 224              | 220       | 238              | 234       | 252              | 247       | 266              | 259       | 279              | 285       | 308              |
| 22                                                 | 178                                     | 174             | 196              | 251                                     | 271              | 267       | 288              | 283       | 305              | 299       | 322              | 313       | 338              | 345       | 372              |
| 24                                                 | 212                                     | 207             | 234              | 298                                     | 322              | 317       | 342              | 336       | 363              | 355       | 383              | 373       | 402              | 411       | 443              |
| 26                                                 | 249                                     | 243             | 274              | 350                                     | 378              | 373       | 402              | 395       | 426              | 417       | 450              | 437       | 472              | 482       | 520              |
| 28                                                 | 289                                     | 282             | 318              | 406                                     | 438              | 432       | 466              | 458       | 494              | 484       | 522              | 507       | 547              | 559       | 603              |
| 30                                                 | 332                                     | 324             | 365              | 466                                     | 503              | 496       | 535              | 526       | 567              | 555       | 599              | 582       | 628              | 642       | 692              |
| 32                                                 | 377                                     | 369             | 415              | 531                                     | 572              | 564       | 609              | 598       | 645              | 632       | 682              | 662       | 715              | 730       | 787              |
| 34                                                 | 426                                     | 416             | 469              | 599                                     | 646              | 637       | 687              | 675       | 728              | 713       | 770              | 748       | 807              | 824       | 889              |
| 36                                                 | 478                                     | 466             | 525              | 671                                     | 724              | 714       | 770              | 757       | 817              | 800       | 863              | 838       | 904              | 924       | 997              |
| 38                                                 | 532                                     | 520             | 585              | 748                                     | 807              | 796       | 858              | 843       | 910              | 891       | 961              | 934       | 1 010            | 1 030     | 1 110            |
| 40                                                 | 590                                     | 576             | 649              | 829                                     | 894              | 882       | 951              | 935       | 1 010            | 987       | 1 070            | 1 030     | 1 120            | 1 140     | 1 230            |

注: 最小钢丝破断拉力总和=钢丝绳最小破断拉力×1.214(纤维芯)或1.308(钢芯)。

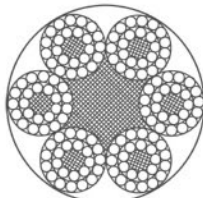
## 圆股钢丝绳 [ 光面和镀锌 ] steel wire rope (ungalvanized and galvanized)

执行标准(standard):  
GB/T 20118-2006  
结构(construction):股



6X12+7FC

执行标准(standard):  
GB/T 20118-2006  
结构(construction):股



6X24+7FC

● 适用于拖船、货网、  
浮运木材、渔业拖网、  
捆绑等。  
for tugboat, cargo net,  
floating of wood,  
fish net dragging and bind.

### 力学性能 mechanical property

| 公称直径/mm<br>nominal<br>diameter      | 参考重量/(kg/100m)<br>approximate<br>weight |             | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |
|-------------------------------------|-----------------------------------------|-------------|-----------------------------------------|-------|-------|-------|
|                                     | 天然纤维芯<br>NF                             | 合成纤维芯<br>SF | 1 470                                   | 1 570 | 1 670 | 1 770 |
| 钢丝绳最小破断拉力(kN) minimum breaking load |                                         |             |                                         |       |       |       |
| 8                                   | 16.1                                    | 14.8        | 19.7                                    | 21.0  | 22.3  | 23.7  |
| 9                                   | 20.3                                    | 18.7        | 24.9                                    | 26.6  | 28.3  | 30.0  |
| 10                                  | 25.1                                    | 23.1        | 30.7                                    | 32.8  | 34.9  | 37.0  |
| 11                                  | 30.4                                    | 28.0        | 37.2                                    | 39.7  | 42.2  | 44.8  |
| 12                                  | 36.1                                    | 33.3        | 44.2                                    | 47.3  | 50.3  | 53.3  |
| 13                                  | 42.4                                    | 39.0        | 51.9                                    | 55.5  | 59.0  | 62.5  |
| 14                                  | 49.2                                    | 45.3        | 60.2                                    | 64.3  | 68.4  | 72.5  |
| 16                                  | 64.3                                    | 59.1        | 78.7                                    | 84.0  | 89.4  | 94.7  |
| 18                                  | 81.3                                    | 74.8        | 99.5                                    | 106   | 113   | 120   |
| 20                                  | 100                                     | 92.4        | 123                                     | 131   | 140   | 148   |
| 22                                  | 121                                     | 112         | 149                                     | 159   | 169   | 179   |
| 24                                  | 145                                     | 133         | 177                                     | 189   | 201   | 213   |
| 26                                  | 170                                     | 156         | 208                                     | 222   | 236   | 250   |
| 28                                  | 197                                     | 181         | 241                                     | 257   | 274   | 290   |
| 32                                  | 257                                     | 237         | 315                                     | 336   | 357   | 379   |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.136。

| 公称直径/mm<br>nominal<br>diameter      | 参考重量/(kg/100m)<br>approximate<br>weight |             | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |
|-------------------------------------|-----------------------------------------|-------------|-----------------------------------------|-------|-------|-------|
|                                     | 天然纤维芯<br>NF                             | 合成纤维芯<br>SF | 1 470                                   | 1 570 | 1 670 | 1 770 |
| 钢丝绳最小破断拉力(kN) minimum breaking load |                                         |             |                                         |       |       |       |
| 8                                   | 20.4                                    | 19.5        | 26.3                                    | 28.1  | 29.9  | 31.7  |
| 9                                   | 25.8                                    | 24.6        | 33.3                                    | 35.6  | 37.9  | 40.1  |
| 10                                  | 31.8                                    | 30.4        | 41.2                                    | 44.0  | 46.8  | 49.6  |
| 12                                  | 45.8                                    | 43.8        | 59.3                                    | 63.3  | 67.3  | 71.4  |
| 14                                  | 62.3                                    | 59.6        | 80.7                                    | 86.2  | 91.6  | 97.1  |
| 18                                  | 103                                     | 98.5        | 133                                     | 142   | 152   | 161   |
| 20                                  | 127                                     | 122         | 165                                     | 176   | 187   | 198   |
| 24                                  | 183                                     | 175         | 237                                     | 253   | 269   | 285   |
| 28                                  | 249                                     | 238         | 323                                     | 345   | 367   | 389   |
| 32                                  | 326                                     | 311         | 421                                     | 450   | 479   | 507   |
| 36                                  | 412                                     | 394         | 533                                     | 570   | 606   | 642   |
| 40                                  | 509                                     | 486         | 659                                     | 703   | 748   | 793   |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.150。

## 圆股钢丝绳 [ 光面和镀锌 ] steel wire rope (ungalvanized and galvanized)

6x25Fi+FC 6x25Fi+IWRC 6x26WS+FC 6x26WS+IWRC  
6x29Fi+FC 6x29Fi+IWRC 6x31WS+FC 6x31WS+IWRC  
6x36WS+FC 6x36WS+IWRC 6x37S+FC 6x37S+IWRC

执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于港口装卸和建筑用塔式  
起重机、吊车, 等。  
for port loading and unloading and construction  
purposes, for tower crane purposes.

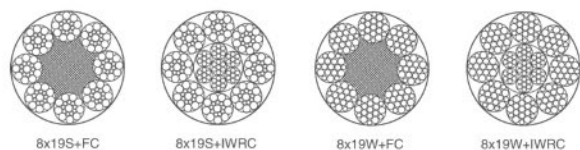
### 力学性能 mechanical property

| 钢丝绳<br>公称<br>直径<br><br>nominal<br>diameter<br>(mm) | 参考重量<br>(kg/100m)<br>approximate weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|----------------------------------------------------|-----------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                                    |                                         |                 |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  | 1 960     |                  | 2 160     |                  |
|                                                    | 钢丝绳最小破断拉力(kN) minimum breaking load     |                 |                  |                                         |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|                                                    | NF<br>天然<br>纤维芯                         | SF<br>合成<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯                               | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 | FC<br>纤维芯 | IWR<br>IWS<br>钢芯 |
| 8                                                  | 24.3                                    | 23.7            | 26.8             | 33.2                                    | 35.8             | 35.3      | 38.0             | 37.4      | 40.3             | 39.5      | 42.6             | 41.4      | 44.7             | 45.6      | 49.2             |
| 10                                                 | 38.0                                    | 37.1            | 41.8             | 51.8                                    | 55.9             | 55.1      | 59.5             | 58.4      | 63.0             | 61.7      | 66.6             | 64.7      | 69.8             | 71.3      | 76.9             |
| 12                                                 | 54.7                                    | 53.4            | 60.2             | 74.6                                    | 80.5             | 79.4      | 85.6             | 84.1      | 90.7             | 88.9      | 95.9             | 93.1      | 100              | 103       | 111              |
| 13                                                 | 64.2                                    | 62.7            | 70.6             | 87.6                                    | 94.5             | 93.1      | 100              | 98.7      | 106              | 104       | 113              | 109       | 118              | 120       | 130              |
| 14                                                 | 74.5                                    | 72.7            | 81.9             | 102                                     | 110              | 108       | 117              | 114       | 124              | 121       | 130              | 127       | 137              | 140       | 151              |
| 16                                                 | 97.3                                    | 95.0            | 107              | 133                                     | 143              | 141       | 152              | 150       | 161              | 158       | 170              | 166       | 179              | 182       | 197              |
| 18                                                 | 123                                     | 120             | 135              | 168                                     | 181              | 179       | 193              | 189       | 204              | 200       | 216              | 210       | 226              | 231       | 249              |
| 20                                                 | 152                                     | 148             | 167              | 207                                     | 224              | 220       | 238              | 234       | 252              | 247       | 266              | 259       | 279              | 285       | 308              |
| 22                                                 | 184                                     | 180             | 202              | 251                                     | 271              | 267       | 288              | 283       | 305              | 299       | 322              | 313       | 338              | 345       | 372              |
| 24                                                 | 219                                     | 214             | 241              | 298                                     | 322              | 317       | 342              | 336       | 363              | 355       | 383              | 373       | 402              | 411       | 443              |
| 26                                                 | 257                                     | 251             | 283              | 350                                     | 378              | 373       | 402              | 395       | 426              | 417       | 450              | 437       | 472              | 482       | 520              |
| 28                                                 | 298                                     | 291             | 328              | 406                                     | 438              | 432       | 466              | 458       | 494              | 484       | 522              | 507       | 547              | 559       | 603              |
| 30                                                 | 342                                     | 334             | 376              | 466                                     | 503              | 496       | 535              | 526       | 567              | 555       | 599              | 582       | 628              | 642       | 692              |
| 32                                                 | 389                                     | 380             | 428              | 531                                     | 572              | 564       | 609              | 598       | 645              | 632       | 682              | 662       | 715              | 730       | 787              |
| 34                                                 | 439                                     | 429             | 483              | 599                                     | 646              | 637       | 687              | 675       | 728              | 713       | 770              | 748       | 807              | 824       | 889              |
| 36                                                 | 492                                     | 481             | 542              | 671                                     | 724              | 714       | 770              | 757       | 817              | 800       | 863              | 838       | 904              | 924       | 997              |
| 38                                                 | 549                                     | 536             | 604              | 748                                     | 807              | 796       | 858              | 843       | 910              | 891       | 961              | 934       | 1010             | 1030      | 1110             |
| 40                                                 | 608                                     | 594             | 669              | 829                                     | 894              | 882       | 951              | 935       | 1010             | 987       | 1070             | 1030      | 1120             | 1140      | 1230             |
| 42                                                 | 670                                     | 654             | 737              | 914                                     | 986              | 972       | 1050             | 1030      | 1110             | 1090      | 1170             | 1140      | 1230             | 1260      | 1360             |
| 44                                                 | 736                                     | 718             | 809              | 1000                                    | 1080             | 1070      | 1150             | 1130      | 1220             | 1190      | 1290             | 1250      | 1350             | 1380      | 1490             |
| 46                                                 | 804                                     | 785             | 884              | 1100                                    | 1180             | 1170      | 1260             | 1240      | 1330             | 1310      | 1410             | 1370      | 1480             | 1510      | 1630             |
| 48                                                 | 876                                     | 855             | 963              | 1190                                    | 1290             | 1270      | 1370             | 1350      | 1450             | 1420      | 1530             | 1490      | 1610             | 1640      | 1770             |
| 50                                                 | 950                                     | 928             | 1040             | 1300                                    | 1400             | 1380      | 1490             | 1460      | 1580             | 1540      | 1660             | 1620      | 1740             | 1780      | 1920             |
| 52                                                 | 1030                                    | 1000            | 1130             | 1400                                    | 1510             | 1490      | 1610             | 1580      | 1700             | 1670      | 1800             | 1750      | 1890             | 1930      | 2080             |
| 54                                                 | 1110                                    | 1080            | 1220             | 1510                                    | 1630             | 1610      | 1730             | 1700      | 1840             | 1800      | 1940             | 1890      | 2030             | 2080      | 2240             |
| 56                                                 | 1190                                    | 1160            | 1310             | 1620                                    | 1750             | 1730      | 1860             | 1830      | 1980             | 1940      | 2090             | 2030      | 2190             | 2240      | 2410             |
| 58                                                 | 1280                                    | 1250            | 1410             | 1740                                    | 1880             | 1850      | 2000             | 1960      | 2120             | 2080      | 2240             | 2180      | 2350             | 2400      | 2590             |
| 60                                                 | 1370                                    | 1340            | 1500             | 1870                                    | 2010             | 1980      | 2140             | 2100      | 2270             | 2220      | 2400             | 2330      | 2510             | 2570      | 2770             |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.226 (纤维芯) 或 1.321 (钢芯), 其中 6x37S 纤维芯为 1.191, 钢芯为 1.283。

## 圆股钢丝绳 [ 光面和镀锌 ]

steel wire rope (ungalvanized and galvanized)



执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于船舶起重打捞沉船等。  
for crane purpose, salvaging sunken vessels.

### 力学性能

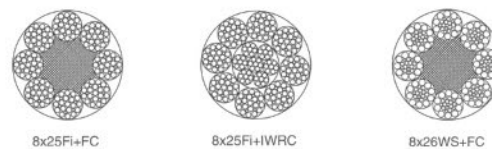
mechanical property

| 钢丝绳<br>公称<br>直径<br><br>diameter<br>(mm) | 参考重量(kg/100m)<br>approximate<br>weight |                 |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|-----------------------------------------|----------------------------------------|-----------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                         |                                        |                 |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  | 1 960     |                  | 2 160     |                  |
|                                         |                                        |                 |                  | 钢丝绳最小破断拉力(KN) minimum breaking load     |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|                                         | 天然<br>纤维芯<br>NF                        | 合成<br>纤维芯<br>SF | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC                               | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |
| 10                                      | 34.6                                   | 33.4            | 42.2             | 46.0                                    | 54.3             | 48.9      | 57.8             | 51.9      | 61.2             | 54.8      | 64.7             | 57.4      | 67.8             | 63.3      | 74.7             |
| 11                                      | 41.9                                   | 40.4            | 51.1             | 55.7                                    | 65.7             | 59.2      | 69.9             | 62.8      | 74.1             | 66.3      | 78.3             | 69.5      | 82.1             | 76.6      | 90.4             |
| 12                                      | 49.9                                   | 48.0            | 60.8             | 66.2                                    | 78.2             | 70.5      | 83.2             | 74.7      | 88.2             | 78.9      | 93.2             | 82.7      | 97.7             | 91.1      | 108              |
| 13                                      | 58.5                                   | 56.4            | 71.3             | 77.7                                    | 91.8             | 82.7      | 97.7             | 87.6      | 103              | 92.6      | 109              | 97.1      | 115              | 107       | 126              |
| 14                                      | 67.9                                   | 65.4            | 82.7             | 90.2                                    | 106              | 95.9      | 113              | 102       | 120              | 107       | 127              | 113       | 133              | 124       | 146              |
| 16                                      | 88.7                                   | 85.4            | 108              | 118                                     | 139              | 125       | 148              | 133       | 157              | 140       | 166              | 147       | 174              | 162       | 191              |
| 18                                      | 112                                    | 108             | 137              | 149                                     | 176              | 159       | 187              | 168       | 198              | 178       | 210              | 186       | 220              | 205       | 242              |
| 20                                      | 139                                    | 133             | 169              | 184                                     | 217              | 196       | 231              | 207       | 245              | 219       | 259              | 230       | 271              | 253       | 299              |
| 22                                      | 168                                    | 162             | 204              | 223                                     | 263              | 237       | 280              | 251       | 296              | 265       | 313              | 278       | 328              | 306       | 362              |
| 24                                      | 199                                    | 192             | 243              | 265                                     | 313              | 282       | 333              | 299       | 353              | 316       | 373              | 331       | 391              | 365       | 430              |
| 26                                      | 234                                    | 226             | 285              | 311                                     | 367              | 331       | 391              | 351       | 414              | 370       | 437              | 388       | 458              | 428       | 505              |
| 28                                      | 271                                    | 262             | 331              | 361                                     | 426              | 384       | 453              | 407       | 480              | 430       | 507              | 450       | 532              | 496       | 586              |
| 30                                      | 312                                    | 300             | 380              | 414                                     | 489              | 440       | 520              | 467       | 551              | 493       | 582              | 517       | 610              | 570       | 673              |
| 32                                      | 355                                    | 342             | 432              | 471                                     | 556              | 501       | 592              | 531       | 627              | 561       | 663              | 588       | 694              | 648       | 765              |
| 34                                      | 400                                    | 386             | 488              | 532                                     | 628              | 566       | 668              | 600       | 708              | 633       | 748              | 664       | 784              | 732       | 864              |
| 36                                      | 449                                    | 432             | 547              | 596                                     | 704              | 634       | 749              | 672       | 794              | 710       | 839              | 744       | 879              | 820       | 969              |
| 38                                      | 500                                    | 482             | 609              | 664                                     | 784              | 707       | 834              | 749       | 884              | 791       | 934              | 829       | 979              | 914       | 1 080            |
| 40                                      | 554                                    | 534             | 675              | 736                                     | 869              | 783       | 925              | 830       | 980              | 877       | 1 040            | 919       | 1 090            | 1 010     | 1 200            |
| 42                                      | 611                                    | 589             | 744              | 811                                     | 958              | 863       | 1 020            | 915       | 1 080            | 967       | 1 140            | 1 010     | 1 200            | 1 120     | 1 320            |
| 44                                      | 670                                    | 646             | 817              | 891                                     | 1 050            | 947       | 1 120            | 1 000     | 1 190            | 1 060     | 1 250            | 1 110     | 1 310            | 1 230     | 1 450            |
| 46                                      | 733                                    | 706             | 893              | 973                                     | 1 150            | 1 040     | 1 220            | 1 100     | 1 300            | 1 160     | 1 370            | 1 220     | 1 430            | 1 340     | 1 580            |
| 48                                      | 798                                    | 769             | 972              | 1 060                                   | 1 250            | 1 130     | 1 330            | 1 190     | 1 410            | 1 260     | 1 490            | 1 320     | 1 560            | 1 460     | 1 720            |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.214 (纤维芯) 或 1.360 (钢芯)。

## 圆股钢丝绳 [ 光面和镀锌 ]

steel wire rope (ungalvanized and galvanized)



执行标准(standard): GB/T 20118-2006  
结构(construction): 股

● 适用于各种起重机, 提升、牵引等设备。  
for various equipment of lifting, hoisting and  
dragging, the rope with steel core may be used  
under the shock load.



### 力学性能

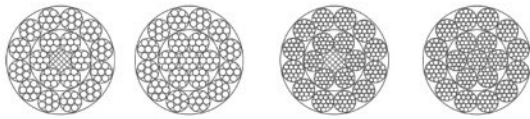
mechanical property

| 钢丝绳<br>公称<br>直径<br><br>diameter<br>(mm) | 参考重量(kg/100m)<br>approximate<br>weight |                 | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |           |                  |           |                  |           |                  |           |                  |           |                  |       |       |
|-----------------------------------------|----------------------------------------|-----------------|-----------------------------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-------|-------|
|                                         |                                        |                 | 1 570                                   |           | 1 670            |           | 1 770            |           | 1 870            |           | 1 960            |           | 2 160            |       |       |
|                                         |                                        |                 | 钢丝绳最小破断拉力(KN) minimum breaking load     |           |                  |           |                  |           |                  |           |                  |           |                  |       |       |
|                                         | 天然<br>纤维芯<br>NF                        | 合成<br>纤维芯<br>SF | 钢芯<br>IWR<br>IWS                        | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |       |       |
| 14                                      | 70.0                                   | 67.4            | 85.3                                    | 90.2      | 106              | 95.9      | 113              | 102       | 120              | 107       | 127              | 113       | 133              | 124   | 146   |
| 16                                      | 91.4                                   | 88.1            | 111                                     | 118       | 139              | 125       | 148              | 133       | 157              | 140       | 166              | 147       | 174              | 162   | 191   |
| 18                                      | 116                                    | 111             | 141                                     | 149       | 176              | 159       | 187              | 168       | 198              | 178       | 210              | 186       | 220              | 205   | 242   |
| 20                                      | 143                                    | 138             | 174                                     | 184       | 217              | 196       | 231              | 207       | 245              | 219       | 259              | 230       | 271              | 253   | 299   |
| 22                                      | 173                                    | 166             | 211                                     | 223       | 263              | 237       | 280              | 251       | 296              | 265       | 313              | 278       | 328              | 306   | 362   |
| 24                                      | 206                                    | 198             | 251                                     | 265       | 313              | 282       | 333              | 299       | 353              | 316       | 373              | 331       | 391              | 365   | 430   |
| 26                                      | 241                                    | 233             | 294                                     | 311       | 367              | 331       | 391              | 351       | 414              | 370       | 437              | 388       | 458              | 428   | 505   |
| 28                                      | 280                                    | 270             | 341                                     | 361       | 426              | 384       | 453              | 407       | 480              | 430       | 507              | 450       | 532              | 496   | 586   |
| 30                                      | 321                                    | 310             | 392                                     | 414       | 489              | 440       | 520              | 467       | 551              | 493       | 582              | 517       | 610              | 570   | 673   |
| 32                                      | 366                                    | 352             | 445                                     | 471       | 556              | 501       | 592              | 531       | 627              | 561       | 663              | 588       | 694              | 648   | 765   |
| 34                                      | 413                                    | 398             | 503                                     | 532       | 628              | 566       | 668              | 600       | 708              | 633       | 748              | 664       | 784              | 732   | 864   |
| 36                                      | 463                                    | 446             | 564                                     | 596       | 704              | 634       | 749              | 672       | 794              | 710       | 839              | 744       | 879              | 820   | 969   |
| 38                                      | 516                                    | 497             | 628                                     | 664       | 784              | 707       | 834              | 749       | 884              | 791       | 934              | 829       | 979              | 914   | 1 080 |
| 40                                      | 571                                    | 550             | 696                                     | 736       | 869              | 783       | 925              | 830       | 980              | 877       | 1 040            | 919       | 1 090            | 1 010 | 1 230 |
| 42                                      | 630                                    | 607             | 767                                     | 811       | 958              | 863       | 1 020            | 915       | 1 080            | 967       | 1 140            | 1 010     | 1 200            | 1 120 | 1 320 |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 × 1.226 (纤维芯) 或 1.374 (钢芯)。

## 多层不旋转钢丝绳 [ 光面和镀锌 ]

non-rotating rope (ungalvanized and galvanized)



18 × 7+FC    18 × 7+IWS    18 × 19+FC    18 × 19+IWS

执行标准(standard):GB/T 20118-2006  
结构(construction):股

● 适用于各种起重机, 提升、牵引和打桩等设备, 金属绳芯在冲击负荷、受热、受挤压条件下使用。

for various equipment of lifting, hoisting and dragging, the rope with steel core may be used under the shock load, heated and squeezed condition.

### 力学性能

mechanical property

| 钢丝绳公称<br>直径<br><br>diameter<br>(mm) | 参考重量<br>(kg/100m)<br>approximate<br>weight |                  | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|-------------------------------------|--------------------------------------------|------------------|-----------------------------------------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|-----------|------------------|
|                                     |                                            |                  | 1 570                                   |                  | 1 670     |                  | 1 770     |                  | 1 870     |                  | 1 960     |                  | 2 160     |                  |
|                                     |                                            |                  | 钢丝绳最小破断拉力(KN) minimum breaking load     |                  |           |                  |           |                  |           |                  |           |                  |           |                  |
|                                     | 纤维芯<br>FC                                  | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC                               | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS | 纤维芯<br>FC | 钢芯<br>IWR<br>IWS |
| 6                                   | 14.0                                       | 15.5             | 17.5                                    | 18.5             | 18.6      | 19.7             | 19.8      | 20.9             | 20.9      | 22.1             | 21.9      | 23.1             | 24.1      | 25.5             |
| 7                                   | 19.1                                       | 21.1             | 23.8                                    | 25.2             | 25.4      | 26.8             | 26.9      | 28.4             | 28.4      | 30.1             | 29.8      | 31.5             | 32.8      | 34.7             |
| 8                                   | 25.0                                       | 27.5             | 31.1                                    | 33.0             | 33.1      | 35.1             | 35.1      | 37.2             | 37.1      | 39.3             | 38.9      | 41.1             | 42.9      | 45.3             |
| 9                                   | 31.6                                       | 34.8             | 39.4                                    | 41.7             | 41.9      | 44.4             | 44.4      | 47.0             | 47.0      | 49.7             | 49.2      | 52.1             | 54.2      | 57.4             |
| 10                                  | 39.0                                       | 43.0             | 48.7                                    | 51.5             | 51.8      | 54.8             | 54.9      | 58.1             | 58.0      | 61.3             | 60.8      | 64.3             | 67.0      | 70.8             |
| 11                                  | 47.2                                       | 52.0             | 58.9                                    | 62.3             | 62.6      | 66.3             | 66.4      | 70.2             | 70.1      | 74.2             | 73.5      | 77.8             | 81.0      | 85.7             |
| 12                                  | 56.2                                       | 61.9             | 70.1                                    | 74.2             | 74.5      | 78.9             | 79.0      | 83.6             | 83.5      | 88.3             | 87.5      | 92.6             | 96.4      | 102              |
| 13                                  | 65.9                                       | 72.7             | 82.3                                    | 87.0             | 87.5      | 92.6             | 92.7      | 98.1             | 98.0      | 104              | 103       | 109              | 113       | 120              |
| 14                                  | 76.4                                       | 84.3             | 95.4                                    | 101              | 101       | 107              | 108       | 114              | 114       | 120              | 119       | 126              | 131       | 139              |
| 16                                  | 99.8                                       | 110              | 125                                     | 132              | 133       | 140              | 140       | 149              | 148       | 157              | 156       | 165              | 171       | 181              |
| 18                                  | 126                                        | 139              | 158                                     | 167              | 168       | 177              | 178       | 188              | 188       | 199              | 197       | 208              | 217       | 230              |
| 20                                  | 156                                        | 172              | 195                                     | 206              | 207       | 219              | 219       | 232              | 232       | 245              | 243       | 257              | 268       | 283              |
| 22                                  | 189                                        | 208              | 236                                     | 249              | 251       | 265              | 266       | 281              | 281       | 297              | 294       | 311              | 324       | 343              |
| 24                                  | 225                                        | 248              | 280                                     | 297              | 298       | 316              | 316       | 334              | 334       | 353              | 350       | 370              | 386       | 408              |
| 26                                  | 264                                        | 291              | 329                                     | 348              | 350       | 370              | 371       | 392              | 392       | 415              | 411       | 435              | 453       | 479              |
| 28                                  | 306                                        | 337              | 382                                     | 404              | 406       | 429              | 430       | 455              | 454       | 481              | 476       | 504              | 525       | 555              |
| 30                                  | 351                                        | 387              | 438                                     | 463              | 466       | 493              | 494       | 523              | 522       | 552              | 547       | 579              | 603       | 638              |
| 32                                  | 399                                        | 440              | 498                                     | 527              | 530       | 561              | 562       | 594              | 594       | 628              | 622       | 658              | 686       | 725              |
| 34                                  | 451                                        | 497              | 563                                     | 595              | 598       | 633              | 634       | 671              | 670       | 709              | 702       | 743              | 774       | 819              |
| 36                                  | 505                                        | 557              | 631                                     | 667              | 671       | 710              | 711       | 752              | 751       | 795              | 787       | 833              | 868       | 918              |
| 38                                  | 563                                        | 621              | 703                                     | 744              | 748       | 791              | 792       | 838              | 837       | 886              | 877       | 928              | 967       | 1 020            |
| 40                                  | 624                                        | 688              | 779                                     | 824              | 828       | 876              | 878       | 929              | 928       | 981              | 972       | 1 030            | 1 070     | 1 130            |
| 42                                  | 688                                        | 759              | 859                                     | 908              | 913       | 966              | 968       | 1 020            | 1 020     | 1 080            | 1 070     | 1 130            | 1 180     | 1 250            |
| 44                                  | 755                                        | 832              | 942                                     | 997              | 1 000     | 1 060            | 1 060     | 1 120            | 1 120     | 1 190            | 1 180     | 1 240            | 1 300     | 1 370            |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 x 1.283, 其中 17x7 为 1.250。

## 多层不旋转钢丝绳 [ 光面和镀锌 ]

non-rotating rope  
(ungalvanized and galvanized)

执行标准(standard):GB/T 20118-2006  
结构(construction):股

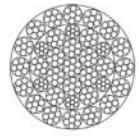
● 开凿立井提升 (建井用)  
well purposes for excavating and hoisting

### 力学性能

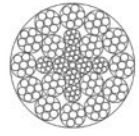
mechanical property

| 钢丝绳公称直径<br>nominal diameter<br>(mm) | 参考重量(kg/100m)<br>approximate<br>weight | 钢丝绳公称抗拉强度(MPa) nominal tensile strength |       |       |       |       |       |
|-------------------------------------|----------------------------------------|-----------------------------------------|-------|-------|-------|-------|-------|
|                                     |                                        | 1 570                                   | 1 670 | 1 770 | 1 870 | 1 960 | 2 160 |
|                                     |                                        | 钢丝绳最小破断拉力(KN) minimum breaking load     |       |       |       |       |       |
| 16                                  | 118                                    | 145                                     | 154   | 163   | 172   | 181   | 199   |
| 18                                  | 149                                    | 183                                     | 195   | 206   | 218   | 229   | 252   |
| 20                                  | 184                                    | 226                                     | 240   | 255   | 269   | 282   | 311   |
| 22                                  | 223                                    | 274                                     | 291   | 308   | 326   | 342   | 376   |
| 24                                  | 265                                    | 326                                     | 346   | 367   | 388   | 406   | 448   |
| 26                                  | 311                                    | 382                                     | 406   | 431   | 455   | 477   | 526   |
| 28                                  | 414                                    | 443                                     | 471   | 500   | 528   | 553   | 610   |
| 30                                  | 361                                    | 509                                     | 541   | 573   | 606   | 635   | 700   |
| 32                                  | 471                                    | 579                                     | 616   | 652   | 689   | 723   | 796   |
| 34                                  | 532                                    | 653                                     | 695   | 737   | 778   | 816   | 899   |
| 36                                  | 596                                    | 732                                     | 779   | 826   | 872   | 914   | 1 010 |
| 38                                  | 664                                    | 816                                     | 868   | 920   | 972   | 1 020 | 1 120 |
| 40                                  | 736                                    | 904                                     | 962   | 1 020 | 1 080 | 1 130 | 1 240 |
| 42                                  | 811                                    | 997                                     | 1 060 | 1 120 | 1 190 | 1 240 | 1 370 |
| 44                                  | 891                                    | 1 090                                   | 1 160 | 1 230 | 1 300 | 1 370 | 1 510 |
| 46                                  | 973                                    | 1 200                                   | 1 270 | 1 350 | 1 420 | 1 490 | 1 650 |
| 48                                  | 1 060                                  | 1 300                                   | 1 390 | 1 470 | 1 550 | 1 630 | 1 790 |
| 50                                  | 1 150                                  | 1 410                                   | 1 500 | 1 590 | 1 680 | 1 760 | 1 940 |

注: 最小钢丝破断拉力总和 = 钢丝绳最小破断拉力 x 1.2870。



35W X 7



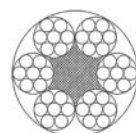
24W X 7

## 涂塑钢丝绳

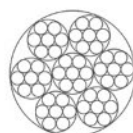
PVC coating steel wire rope

### 力学性能

mechanical property



6X7+FC

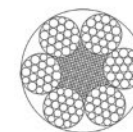


6X7+IWSC  
(7X7)

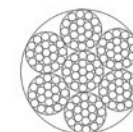
| 结构<br>construction | 直径<br>diameter | 重量(KGS/m)<br>weight | 钢丝绳最小破断拉力 (MBL)<br>min breaking load |                       |                       |
|--------------------|----------------|---------------------|--------------------------------------|-----------------------|-----------------------|
|                    |                |                     | 1175N/MM <sup>2</sup>                | 1270N/MM <sup>2</sup> | 1370N/MM <sup>2</sup> |
| 6x7+FC             | 2mm-3mm        | 0.021               | 2.22KN                               | 2.35KN                | 2.60KN                |
|                    | 2mm-3.5mm      | 0.025               | 2.22KN                               | 2.35KN                | 2.60KN                |
|                    | 3mm-4mm        | 0.043               | 4.99KN                               | 5.29KN                | 5.86KN                |
|                    | 3mm-5mm        | 0.053               | 4.99KN                               | 5.29KN                | 5.86KN                |
|                    | 4mm-5mm        | 0.072               | 8.87KN                               | 9.41KN                | 10.42KN               |
|                    | 4mm-5.5mm      | 0.078               | 8.87KN                               | 9.41KN                | 10.42KN               |
|                    | 4mm-6mm        | 0.084               | 8.87KN                               | 9.41KN                | 10.42KN               |
|                    | 5mm-6mm        | 0.109               | 13.87KN                              | 14.70KN               | 16.28KN               |
| 7x7                | 5mm-7mm        | 0.123               | 13.87KN                              | 14.70KN               | 16.28KN               |
|                    | 1.59mm-3.18mm  | 0.0220              | /                                    | 1.60KN                | 1.78KN                |
|                    | 1.8mm-2.5mm    | 0.0190              | /                                    | 2.06KN                | 2.28KN                |
|                    | 2mm-2.7mm      | 0.0206              | 2.40KN                               | 2.54KN                | 2.81KN                |
|                    | 2.38mm-3.18mm  | 0.300               | 3.40KN                               | 3.60KN                | 3.99KN                |
|                    | 2.38mm-3.50mm  | 0.0323              | 3.40KN                               | 3.60KN                | 3.99KN                |
|                    | 2.38mm-4mm     | 0.0369              | 3.40KN                               | 3.60KN                | 3.99KN                |
|                    | 2.38mm-4.76mm  | 0.0437              | 3.40KN                               | 3.60KN                | 3.99KN                |
|                    | 3.18mm-4.76mm  | 0.0564              | 6.05KN                               | 6.42KN                | 7.11KN                |
|                    | 4.76mm-6.35mm  | 0.1173              | 13.58KN                              | 14.40KN               | 15.94KN               |
|                    | 4.76mm-7.8mm   | 0.1250              | 13.58KN                              | 14.40KN               | 15.94KN               |
|                    | 5mm-7.8mm      | 0.135               | 15.00KN                              | 15.90KN               | 17.60KN               |
|                    | 5mm-10mm       | 0.175               | 15.00KN                              | 15.90KN               | 17.60KN               |
|                    | 6mm-10mm       | 0.1944              | 21.60KN                              | 22.90KN               | 25.36KN               |

## 涂塑钢丝绳

PVC coating steel wire rope



6X19+FC



6X19+IWSC  
(7X19)

| 结构<br>construction | 直径<br>diameter | 重量(KGS/m)<br>weight | 钢丝绳最小破断拉力 (MBL)<br>min breaking load |                       |                       |
|--------------------|----------------|---------------------|--------------------------------------|-----------------------|-----------------------|
|                    |                |                     | 1175N/MM <sup>2</sup>                | 1270N/MM <sup>2</sup> | 1370N/MM <sup>2</sup> |
| 6x19+FC            | 2mm-3mm        | 0.021               | 2.22KN                               | 2.35KN                | 2.60KN                |
|                    | 3.6mm-5.8mm    | 0.061               | 6.65KN                               | 7.05KN                | 7.80KN                |
|                    | 6mm-8mm        | 0.168               | 18.50KN                              | 19.60KN               | 21.70KN               |
|                    | 8mm-10mm       | 0.270               | 32.83KN                              | 34.80KN               | 38.53KN               |
|                    | 9.3mm-11mm     | 0.355               | 49.97KN                              | 52.97KN               | 58.65KN               |
|                    | 10mm-12mm      | 0.430               | 51.27KN                              | 54.34KN               | 60.17KN               |
| 7x19               | 6.35mm-7.94mm  | 0.2020              | 22.36KN                              | 23.70KN               | 26.24KN               |
|                    | 7.94mm-9.53mm  | 0.2950              | 34.95KN                              | 37.04KN               | 41.00KN               |

### 主要用途:

涂塑钢丝绳可广泛应用于汽车、船舶、建筑行业及一切需要室外应用或特殊工作环境下使用。主要用在矿井提升罐笼、肉类加工厂提升机械、海船船锚、及捕捞作业、渔业船只拖网等方面。

### Main purposes:

PVC coating steel wire rope can be widely used in automobiles, shipbuilding, construction industry and all the needs of outdoor applications or special working environment. Mainly used in mine hoist cage, meat processing plant upgrade machinery, ship anchors and fishing operations, fishing vessels trawling and so on.

## 不锈钢钢丝绳 stainless steel wire rope

执行标准(standard):

GB9944-88

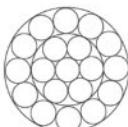
材质(material):

304、316、316L等

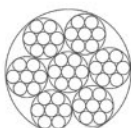
● 适用于化工、航空、机械、仪表等行业。  
it is used for chemical, engineering, aviation machine, instrument.



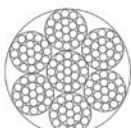
1X7



1X19



6X7+IWSC  
(7X7)



6X19+IWSC  
(7X19)

### 力学性能 mechanical property

| 结构<br>construction | 直径<br>diameter | 重量(KGS/m)<br>weight | 钢丝绳最小破断拉力(MBL)<br>min breaking load |
|--------------------|----------------|---------------------|-------------------------------------|
| 1x7                | 0.15mm         | 0.10                | 24.50KN                             |
|                    | 0.24mm         | 0.28                | 58.80KN                             |
|                    | 0.30mm         | 0.44                | 93.10KN                             |
|                    | 0.36mm         | 0.64                | 127.40KN                            |
|                    | 0.40mm         | 0.75                | 156.80KN                            |
|                    | 0.45mm         | 1.00                | 196.00KN                            |
|                    | 0.50mm         | 1.25                | 254.80KN                            |
|                    | 0.60mm         | 1.80                | 343.00KN                            |
|                    | 0.75mm         | 2.80                | 558.60KN                            |
|                    | 0.90mm         | 4.00                | 823.20KN                            |
| 1x19               | 1.00mm         | 4.80                | 999.60KN                            |
|                    | 1.20mm         | 7.00                | 1323.00KN                           |
|                    | 0.60mm         | 1.75                | 343.00KN                            |
|                    | 0.70mm         | 2.40                | 470.40KN                            |
|                    | 0.80mm         | 3.10                | 617.40KN                            |
|                    | 0.90mm         | 3.90                | 774.20KN                            |
|                    | 1.00mm         | 4.90                | 950.60KN                            |
|                    | 1.20mm         | 7.00                | 1274.00KN                           |
|                    | 1.50mm         | 11.00               | 2254.00KN                           |
|                    | 1.60mm         | 12.50               | 2597.00KN                           |
|                    | 1.80mm         | 15.00               | 3136.00KN                           |
|                    | 2.00mm         | 19.50               | 3822.00KN                           |
|                    | 2.40mm         | 28.00               | 4802.00KN                           |
|                    | 2.50mm         | 30.38               | 5586.00KN                           |
|                    | 3.00mm         | 43.74               | 8036.00KN                           |
|                    | 3.50mm         | 59.54               | 9310.00KN                           |
|                    | 4.00mm         | 77.76               | 12740.00KN                          |

| 结构<br>construction  | 直径<br>diameter | 重量(KGS/m)<br>weight | 钢丝绳最小破断拉力(MBL)<br>min breaking load |
|---------------------|----------------|---------------------|-------------------------------------|
| 6x7+IWSC<br>(7x7)   | 1.00mm         | 0.004               | /                                   |
|                     | 1.50mm         | 0.0088              | /                                   |
|                     | 1.60mm         | 0.012               | 2.15KN                              |
|                     | 1.80mm         | 0.014               | 2.25KN                              |
|                     | 2.00mm         | 0.017               | 2.94KN                              |
|                     | 2.50mm         | 0.025               | 4.41KN                              |
|                     | 3.00mm         | 0.035               | 6.37KN                              |
|                     | 4.00mm         | 0.065               | 9.51KN                              |
|                     | 5.00mm         | 0.095               | 14.70KN                             |
|                     | 6.00mm         | 0.135               | 18.62KN                             |
| 6x19+IWSC<br>(7x19) | 3.00mm         | 0.0375              | 6.37KN                              |
|                     | 4.00mm         | 0.067               | 8.62KN                              |
|                     | 5.00mm         | 0.097               | 16.66KN                             |
|                     | 6.00mm         | 0.149               | 23.52KN                             |
|                     | 8.00mm         | 0.266               | 40.05KN                             |
|                     | 9.00mm         | 0.350               | 46.06KN                             |
|                     | 9.50mm         | 0.362               | 53.40KN                             |
|                     | 10.00mm        | 0.384               | 54.88KN                             |
|                     | 12.00mm        | 0.550               | 73.50KN                             |

## 热镀锌坯料钢丝 hot dipped galvanized patented wire for further redrawing



| 品名<br>item                                         | 材料(#)<br>material | 直径(mm)<br>diameter | 许可公差(mm)<br>tolerance | 抗拉强度(Mpa)<br>T/S | 扭转回/100d<br>torsion | 附锌量(g/m²)<br>weight of<br>zinc coating |
|----------------------------------------------------|-------------------|--------------------|-----------------------|------------------|---------------------|----------------------------------------|
| 热镀锌<br>坯料钢丝<br>hot dip<br>galvanized<br>steel wire | 60                | 1.0                | +0.03~-0.03           | 105-125          | 18                  | 100                                    |
|                                                    | 60                | 1.1                | +0.03~-0.03           | 105-125          | 18                  | 100                                    |
|                                                    | 60                | 1.3                | +0.03~-0.03           | 100-125          | 18                  | 130                                    |
|                                                    | 60                | 1.4                | +0.03~-0.03           | 100-125          | 18                  | 140                                    |
|                                                    | 60                | 1.6                | +0.04~-0.03           | 100-125          | 18                  | 160                                    |
|                                                    | 60                | 1.8                | +0.04~-0.03           | 100-125          | 17                  | 180                                    |
|                                                    | 60                | 2.0                | +0.045~-0.035         | 100-125          | 17                  | 210                                    |
|                                                    | 60                | 2.2                | +0.045~-0.035         | 100-120          | 17                  | 210                                    |
|                                                    | 60                | 2.4                | +0.045~-0.035         | 100-120          | 17                  | 230                                    |
|                                                    | 70                | 2.6                | +0.045~-0.035         | 110-130          | 13                  | 240                                    |
|                                                    | 70                | 2.8                | +0.045~-0.035         | 110-130          | 13                  | 250                                    |
|                                                    | 70                | 3.0                | +0.045~-0.035         | 110-130          | 13                  | 260                                    |
|                                                    | 70                | 3.2                | +0.045~-0.035         | 108-120          | 13                  | 260                                    |
|                                                    | 70                | 3.4                | +0.045~-0.035         | 108-120          | 13                  | 260                                    |
|                                                    | 70                | 3.6                | +0.045~-0.035         | 108-120          | 13                  | 260                                    |
|                                                    | 70                | 4.0                | +0.045~-0.035         | 105-115          | 13                  | 260                                    |
|                                                    | 70                | 4.5                | +0.045~-0.035         | 105-115          | 13                  | 260                                    |

## 热处理磷化钢丝 ungalvanized patented wire for further redrawing



| 品名<br>item                                                | 材料(#)<br>material | 直径(mm)<br>diameter | 许可公差(mm)<br>tolerance | 抗拉强度(Mpa)<br>T/S | 扭转回/100d<br>torsion |
|-----------------------------------------------------------|-------------------|--------------------|-----------------------|------------------|---------------------|
| 光面热处理<br>磷化钢丝<br>heat<br>treatment<br>phosphated<br>wires | 60                | 1.2                | +0.03~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 1.3                | +0.03~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 1.4                | +0.03~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 1.5                | +0.03~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 1.6                | +0.03~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 1.8                | +0.04~-0.03           | 105-125          | 20                  |
|                                                           | 60                | 2.0                | +0.04~-0.03           | 105-125          | 18                  |
|                                                           | 60                | 2.2                | +0.045~-0.035         | 105-120          | 18                  |
|                                                           | 60                | 2.4                | +0.045~-0.035         | 105-120          | 18                  |
|                                                           | 70                | 2.6                | +0.045~-0.035         | 115-130          | 13                  |
|                                                           | 70                | 2.8                | +0.045~-0.035         | 115-130          | 13                  |
|                                                           | 70                | 3.0                | +0.045~-0.035         | 112-130          | 13                  |
|                                                           | 70                | 3.2                | +0.045~-0.035         | 110-130          | 13                  |
|                                                           | 70                | 3.4                | +0.045~-0.035         | 110-130          | 13                  |
|                                                           | 75                | 3.6                | +0.045~-0.035         | 112-130          | 13                  |
|                                                           | 75                | 3.8                | +0.045~-0.035         | 112-130          | 13                  |
|                                                           | 75                | 4.0                | +0.045~-0.035         | 110-130          | 13                  |
|                                                           | 75                | 4.2                | +0.045~-0.035         | 110-130          | 13                  |
|                                                           | 75                | 4.5                | +0.045~-0.035         | 110-130          | 13                  |

## 碳素弹簧钢丝 carbon spring steel wire

执行标准(standard): GB4357-89

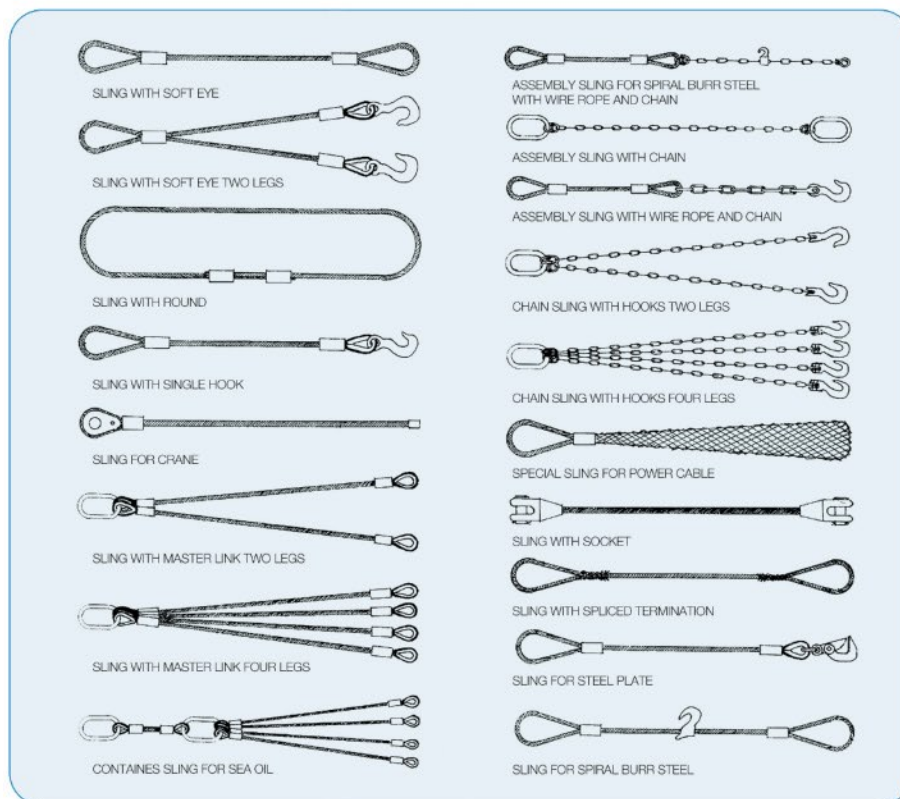
● 用于制造缠绕成型的弹簧。  
used in the manufacture of winding shape of the spring.



## 力学性能 mechanical property

| 钢丝直径 (毫米)<br>diameter(mm) | 抗拉强度 (N/mm <sup>2</sup> ) tensile strength |             |             |
|---------------------------|--------------------------------------------|-------------|-------------|
|                           | B 组 group B                                | C 组 group C | D 组 group D |
| 0.20                      | 2150-2550                                  | 2400-2790   | 2690-3090   |
| 0.22                      | 2110-2500                                  | 2350-2750   | 2690-3090   |
| 0.25                      | 2060-2450                                  | 2300-2700   | 2640-3040   |
| 0.28                      | 2010-2400                                  | 2300-2700   | 2640-3040   |
| 0.30                      | 2010-2400                                  | 2300-2700   | 2640-3040   |
| 0.32                      | 1960-2350                                  | 2250-2650   | 2600-2990   |
| 0.35                      | 1960-2350                                  | 2250-2650   | 2600-2990   |
| 0.40                      | 1910-2300                                  | 2250-2650   | 2600-2990   |
| 0.45                      | 1860-2260                                  | 2200-2600   | 2550-2940   |
| 0.50                      | 1860-2260                                  | 2200-2600   | 2550-2940   |
| 0.55                      | 1810-2210                                  | 2150-2550   | 2500-2890   |
| 0.60                      | 1760-2160                                  | 2110-2500   | 2450-2840   |
| 0.65                      | 1760-2160                                  | 2110-2500   | 2450-2840   |
| 0.70                      | 1710-2110                                  | 2060-2450   | 2450-2840   |
| 0.80                      | 1710-2060                                  | 2010-2400   | 2400-2840   |
| 0.90                      | 1710-2060                                  | 2010-2350   | 2350-2750   |
| 1.00                      | 1660-2010                                  | 1960-2300   | 2300-2690   |
| 1.20                      | 1620-1960                                  | 1910-2250   | 2250-2550   |
| 1.40                      | 1620-1910                                  | 1860-2210   | 2150-2450   |
| 1.60                      | 1570-1860                                  | 1810-2160   | 2110-2400   |
| 1.80                      | 1520-1810                                  | 1760-2110   | 2010-2300   |
| 2.00                      | 1470-1760                                  | 1710-2010   | 1910-2200   |
| 2.20                      | 1420-1710                                  | 1660-1960   | 1810-2110   |
| 2.50                      | 1420-1710                                  | 1660-1960   | 1760-2060   |
| 2.80                      | 1370-1670                                  | 1620-1910   | 1710-2010   |
| 3.00                      | 1370-1670                                  | 1570-1860   | 1710-1960   |
| 3.20                      | 1320-1620                                  | 1570-1810   | 1660-1910   |
| 3.50                      | 1320-1620                                  | 1570-1810   | 1660-1910   |
| 4.00                      | 1320-1620                                  | 1520-1760   | 1620-1860   |

## 吊索具 steel wire rope sling



## 定制产品

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## ● CUSTOMIZED SMALL PACKAGE WITH CUSTOMER'S LOGO



| SIZE(mm) | CONS. | LENGTH(M) |
|----------|-------|-----------|
| 1.8      | 7x7   | 6         |
| 1.8      | 7x7   | 9         |
| 1.8      | 7x7   | 100       |
| 2.4      | 7x7   | 6         |
| 2.4      | 7x7   | 9         |
| 2.4      | 7x7   | 100       |

| SIZE(mm) | CONS.   | LENGTH(M) |
|----------|---------|-----------|
| 2        | 6x7+PPC | 10        |
| 2        | 6x7+PPC | 25        |
| 2        | 6x7+PPC | 50        |
| 2        | 6x7+PPC | 100       |
| 3        | 6x7+PPC | 10        |
| 3        | 6x7+PPC | 25        |
| 3        | 6x7+PPC | 50        |
| 3        | 6x7+PPC | 100       |

| SIZE(mm) | CONS.    | LENGTH(M) |
|----------|----------|-----------|
| 4        | 6x12+7FC | 10        |
| 4        | 6x12+7FC | 25        |
| 4        | 6x12+7FC | 50        |
| 4        | 6x12+7FC | 100       |
| 5        | 6x12+7FC | 10        |
| 5        | 6x12+7FC | 25        |
| 5        | 6x12+7FC | 50        |
| 5        | 6x12+7FC | 100       |
| 6        | 6x12+7FC | 10        |
| 6        | 6x12+7FC | 25        |
| 6        | 6x12+7FC | 50        |
| 6        | 6x12+7FC | 100       |
| 8        | 6x12+7FC | 10        |
| 8        | 6x12+7FC | 25        |

| SIZE(mm) | CONS.    | LENGTH(M) |
|----------|----------|-----------|
| 5        | 6x12+7FC | 100       |
| 6        | 6x12+7FC | 50        |
| 6        | 6x12+7FC | 100       |
| 8        | 6x12+7FC | 50        |
| 8        | 6x12+7FC | 100       |
| 10       | 6x12+7FC | 25        |
| 10       | 6x12+7FC | 50        |
| 10       | 6x12+7FC | 100       |
| 12       | 6x12+7FC | 25        |
| 12       | 6x12+7FC | 50        |
| 12       | 6x12+7FC | 100       |
| 14       | 6x12+7FC | 50        |
| 14       | 6x12+7FC | 100       |

## 定制产品

our customized products

## ● CUSTOMIZED SMALL PACKAGE WITH CUSTOMER'S LOGO



| SIZE(mm) | CONS.  | LENGTH(M) |
|----------|--------|-----------|
| 2        | 6x7+FC | 10        |
| 2        | 6x7+FC | 25        |
| 3        | 6x7+FC | 10        |
| 3        | 6x7+FC | 25        |
| 4        | 6x7+FC | 10        |
| 4        | 6x7+FC | 25        |
| 5        | 6x7+FC | 10        |
| 5        | 6x7+FC | 25        |
| 6        | 6x7+FC | 10        |
| 6        | 6x7+FC | 25        |



| SIZE(mm) | CONS.   | LENGTH(M) |
|----------|---------|-----------|
| 2        | 6x7+FC  | 100       |
| 3        | 6x7+FC  | 100       |
| 4        | 6x7+FC  | 100       |
| 5        | 6x7+FC  | 100       |
| 6        | 6x7+FC  | 100       |
| 2-4      | 6x7+FC  | 100       |
| 3-5      | 6x7+FC  | 100       |
| 4-6      | 6x7+FC  | 100       |
| 5-7      | 6x7+FC  | 100       |
| 6-8      | 6x7+FC  | 100       |
| 8-10     | 6x7+FC  | 100       |
| 3        | 6x19+FC | 100       |
| 4        | 6x19+FC | 100       |
| 5        | 6x19+FC | 100       |
| 6        | 6x19+FC | 100       |
| 8        | 6x19+FC | 100       |
| 10       | 6x19+FC | 100       |
| 12       | 6x19+FC | 100       |



| SIZE(mm) | CONS.   | LENGTH(M) |
|----------|---------|-----------|
| 1        | 1x7     | 500       |
| 1.5      | 6x7+FC  | 250       |
| 2        | 6x7+FC  | 250       |
| 3        | 6x7+FC  | 250       |
| 4        | 6x7+FC  | 200       |
| 5        | 6x7+FC  | 200       |
| 6        | 6x7+FC  | 200       |
| 8        | 6x19+FC | 100       |
| 10       | 6x19+FC | 100       |
| 12       | 6x19+FC | 100       |
| 2-3      | 6x7+FC  | 100       |
| 3-4      | 6x7+FC  | 100       |
| 4-6      | 6x7+FC  | 100       |
| 6-8      | 6x19+FC | 100       |



## Exhibition cooperation 展会合作

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Only faithful cooperation, there will be a chance to win mutually.



我们每年参加各类国内国际五金展会,通过展会,神威产品出口到欧美、中东、非洲、东南亚等几十多个国家和地区,年销量成倍的增长,产品质量赢得了国内外用户的一致好评。

Each year we participate in various domestic and international hardware show, through the exhibition, the diversity of products exported to Europe, the Middle East, Africa, Southeast Asia, dozens of countries and regions, annual sales grow exponentially, product quality has won praise at home and abroad users.

