

线路金具手册

PRODUCTS MANUAL OF LINE FITTINGS



江苏中天科技集团有限公司
JIANGSU ZHONGTIAN TECHNOLOGIES GROUP CO.,LTD.



南通江东通信设备有限公司
NANTONG JIANGDONG COMMUNICATIONS EQUIPMENT CO.,LTD.

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南通江东通信设备有限公司系中天科技集团下属公司，专业设计制造用于电力导线线路金具、电力光缆架空线路金具及其配套产品；生产各种规格型号的光缆接头盒、终端盒、交接箱、配线箱(柜)及光纤活动连接器等；同时生产各种规格的铝包钢单丝、铝包钢绞线、钢芯铝合金绞线等。

公司成立于1995年。公司现占地30000平方米，拥有20000多平方米的标准厂房和260多名员工，公司有超过20%的研发人员。公司现拥有数十个专利产品；八大系列(百余种品种)，产品相继通过行业、部委和国家级鉴定；取得了信息产业部颁发的“电信设备进网许可证”和全国工业产品生产许可证。产品严格执行国家标准和国际标准。电力、光缆金具分别经过国家电力建设研究所、中国电力科学研究院、武汉高压研究所、加拿大KII国际试验室和国家电力工业电力金具检测中心的检测。产品性能达到国际先进水平。

我公司技术力量雄厚，质量体系健全，工艺装配齐全，检测手段先进。公司拥有加工中心、数控机床、压铸设备、绞丝成型机等生产设备，拥有机械、电气、理化、老化、成份分析仪等先进检测设备。公司始终以“中天服务电网、电网信赖中天”为宗旨，严格执行ISO9001质量体系标准，严格的质量管理体系管理，形成了一套完整的质量控制链，使得产品质量稳定可靠。

中天科技集团立志以发展电力、通信产业为己任，以优质的产品和一流的服务真诚地与每一位客户共同承载电力、通信事业的美好明天！

Nantong Jiangdong Communications Equipment Co., Ltd. is the subsidiary company of Zhongtian Technologies Co., Ltd. It specializes in designing and manufacturing fittings for overhead conductor line, electric optical cable overhead line, and its series supporting products. Its products also include: different types of optical joint box, terminal box, distribution box, and optical fiber patch cord etc. While, we can produce all kinds of aluminum clad steel wire, aluminum clad steel stranded wire, and ACSR etc.

The company has been established since 1995, with 30000 square meters total area, more than 20000 square meters workshop area and over 460 staffs, in which 20% are technical engineer. The company has dozens of patent products, witch can be divided into 8 series and more than one hundred types. The products pass the industrial and national appraisal in succession. The company has also acquired "License of network access for telecom equipments" awarded by Information Industry Department of China. We obey the national and international standards strictly, and our electrical and optical cable fittings products have passed the tests in many the third part laboratories, such as National Electric Construction Research Institute, China Electric Power Research Institute, Wuhan High-voltage Research Institute, KINECTRICS International Inc. Canada. The performance of our products has reached international advanced level.

Our company holds rich technical power, perfect quality control system, complete technics equipments, and advanced test manners. The manufacturing equipments of our company include machining center, digital controlled machine tool, stranded wire forming machine. And the test instruments involve the advanced equipment to test mechanical performance, electrical performance, aging, and component analysis. We take "ZTT serves for Electric Power, Electric Power trusts ZTT" as our tenet, and form a complete quality control chain according to the ISO 9001 quality system so that we can make the quality of our products better and steadier.

ZTT has aimed to serve for the electric and communication industry all over the world. We will create the beautiful future of electric and communication industry with each customer through our good products and honest services.

悬垂金具 Suspension Clamp

预绞式导线、地线悬垂线夹(CL) Preformed Suspension Clamp (CL)



- 1、悬垂预绞丝：高强度防锈铝合金丝，330kV以下断头成半球状，330kV以上成椭圆状。(鸭嘴状)
- 2、悬垂套壳：高强度铸造铝合金，每套两片。
- 3、螺栓组件：高强度镀锌钢。
- 4、悬垂托板：高强度铝合金板。(特大悬垂中，配有)
- 5、悬垂衬垫：特殊橡胶，铝合金骨架。

- 1、Suspension preformed armor rod: Al-alloy wire with high strength, broken end at <330kV is a hemisphere, broken end at >330kV is an ellipsoid;
- 2、Housing: High-strength aluminium alloy casting, two pieces per set. Suspension for ground wire is of articulated type;
- 3、Bolt subassemblies: Galvanized steel with high strength;
- 4、Strap: High-strength aluminium alloy;
- 5、Insert: An elastomer specifically formulated.

一般概述

预绞式悬垂线夹的作用和普通悬垂线夹类似，可用于杆塔上悬挂导线。所不同的是预绞式悬垂线夹不仅可有效保护导线，而且其平滑的外轮廓使电晕放电大大减少，故尤其适用于220kV及以上线路。双悬垂线夹还可用于跨江河的长距离输电线及转角较大的杆塔(30°~60°)上。悬垂线夹结构见上图。由弧形橡胶垫扣住导线悬挂点，预绞式护线条缠绕保护及固定导线，从而保证了运行的安全可靠。

General Recommendations

The function of preformed suspension clamp is similar to that of the ordinary suspension clamps because it can be used on supports to suspend conductors. The difference is that preformed suspension clamp can not only protect conductors effectively but also greatly reduce corona discharge due to its smooth profile. Thus it is especially applicable for the super-high (equal to or higher than 220kV) lines. Double suspension clamp can also be used for long distance power transmission lines across rivers and supports with big turning angles (30°~60°). The following picture is the structure drawing of suspension clamp. The arc rubber lining fastens the suspension point of conductors and preformed armor rods wrap, protect and fix the conductors to ensure the security and liability of operation.

产品特点

悬垂线夹将导线所受应力分布在一个较大的区域面积上，保护由于弯曲、剪切、拉伸等静态应力对导线的影响，极大地提高了导线承受应力，而且在导线发生或舞动时，在悬垂点不易造成对导线的损伤。

由于预绞丝的保护作用，悬垂线夹牢牢握紧导线，使线夹能够承受较高不平衡载荷，避免了导线的滑移极大地保护了导线，使其磨损降至最低极限。

Product Characteristic

Suspension clamp distributes the stress on conductors to a larger area and protects conductors from the influence of static stress such as bending, cutting and stretching, thus it can greatly increase the conductors' bearing stress and prevent conductors from damage at suspension points when galloping occurs;

Due to the protection function of preformed armor rod, suspension clamp grips conductors firmly and makes the clamp capable to endure high imbalanced load. It avoids the slippage of conductors, greatly protects them and reduce their abrasion to a minimum.

悬垂预绞式线夹的护线条由特殊的铝合金丝制成，具有良好的抗腐蚀性能和防松动性。橡胶垫由特殊橡胶制成，有极优良的抗紫外线、抗臭氧能力和抗老化性，可供常年使用。

特殊的外形设计和优质的材质可以降低电磁损耗和消除电晕，护线条经过球面处理，保证了导体不至于发生尖端放电。

应用范围

适用于220kV以上的电力线路，如果杆塔转角大于30°建议使用双悬垂线夹。

须知

本产品为只能安装一次的特殊产品。

产品图片 Product Picture



The armor rod of suspension clamp is made of special al-alloy wire and it is well against corrosion and loosening. The rubber lining is made of special rubber and it is well against ultraviolet ray, ozone and aging. It can be used all the year round.

Special figure design and high-quality materials can reduce electromagnetic loss and eliminate corona. The armor rod is processed with spherical surface treatment to ensure that point discharge won't happen to conductors.

Application Range

Applicable to power lines of 220kV or higher than 220kV, if the turning angle of the support is more than 30°, double suspension protection clamp is recommended.

Note

This product is very special and it can be installed only once.

工程应用 Project Picture



铝绞线(LJ)用预绞式悬垂线夹

Preformed Suspension Clamp For Aluminum Strand Wire (LJ)

线夹型号 Type Of Clamp	通用导线范围(GB-1179-83) Applicable Conductor (mm)	线夹参考长度L Reference Length Of Clamp L (mm)	线夹重量 Weight Of Clamp (kg)
CL-95/LJ	LJ-95	1050	1.10
CL-120/LJ	LJ-120	1150	1.40
CL-150/LJ	LJ-150	1300	1.50
CL-185/LJ	LJ-185	1400	1.80
CL-210/LJ	LJ-210	1450	2.00
CL-240/LJ	LJ-240	1550	2.60
CL-300/LJ	LJ-300	1650	3.10
CL-400/LJ	LJ-400	2050	5.50
CL-500/LJ	LJ-500	2100	5.90
CL-630/LJ	LJ-630	2250	8.80
CL-800/LJ	LJ-800	2250	9.70

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钢芯铝绞线用预绞式悬垂线夹

Preformed Suspension Clamp For ACSR(LGJ/LGJF)

线夹型号 Type Of Clamp	适用导线范围(GB-1179-83) Applicable Conductor (mm)	线夹参考长度L Reference Length Of Clamp L (mm)	线夹重量 Weight Of Clamp (kg)
CL-35/6	35/6	660	1.10
CL-50/8	50/8	660	1.10
CL-70/10	70/10	950	1.50
CL-50/30	50/30	950	1.60
CL-70/40	70/40	1050	1.20
CL-95/15	95/15	1050	1.20
CL-95/20	95/20	1150	1.30
CL-120/7	120/7	1150	1.40
CL-120/20	120/20	1150	1.40
CL-120/25	120/25	1150	1.40
CL-95/55	95/55	1300	1.50
CL-150/8	150/8	1300	1.50
CL-150/20	150/20	1300	1.50
CL-150/25	150/25	1400	1.80
CL-150/35	150/35	1400	1.80
CL-120/70	120/70	1400	1.90
CL-185/10	185/10	1400	1.90
CL-185/25	185/25	1450	2.00
CL-185/30	185/30	1450	2.00
CL-210/10	210/10	1450	2.00
CL-180/45	180/45	1550	2.60
CL-210/25	210/25	1550	2.60
CL-210/35	210/35	1550	2.80
CL-210/50	210/50	1550	2.80
CL-240/30	240/30	1650	2.90
CL-240/40	240/40	1650	2.90
CL-240/55	240/55	1650	3.10
CL-300/15	300/15	1650	3.10
CL-300/20	300/20	1700	4.10
CL-300/25	300/25	1700	4.10
CL-300/40	300/40	1700	4.10
CL-300/50	300/50	1700	4.10
CL-300/70	300/70	1750	4.40
CL-400/20	400/20	2100	5.70
CL-400/25	400/25	2100	5.70
CL-400/35	400/35	2100	5.70
CL-400/50	400/50	2100	5.90
CL-400/65	400/65	2100	5.90
CL-400/95	400/95	2100	5.90
CL-500/35	500/35	2100	6.00
CL-500/45	500/45	2100	6.00
CL-500-65	500-65	2250	8.30
CL-630/45	630/45	2250	8.80
CL-630/55	630/55	2250	9.10
CL-630/80	630/80	2250	9.10
CL-800/55	800/55	2250	9.70
CL-800/70	800/70	2250	9.70
CL-800/100	800/100	2250	9.70

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钢芯铝绞线及铝绞线用预绞式双支点悬垂线夹

Preformed Double-pivot Suspension Clamp For ACSR Or AC Steel Core Aluminum Strand Wire, Aluminum Strand Wire

型号 Type	适用导线直径范围 Diameter Range Of Applicable Conductor	适用导线类型(钢芯绞线) Applicable Conductor Type (Steel Core Strand Wire)	适用导线类型(铝绞线) Applicable Conductor Type (Aluminum Strand Wire)	线夹长度 Length Of Clamp (mm)	线夹重量 Weight Of Clamp (kg)
SCL-35/6	8.03-8.31	35/6	/	970	1.8
SCL-50/8	9.53-9.88	50/8	/	960	2.0
SCL-70/10	11.05-11.45	70/10	/	1210	2.6
SCL-50/30	11.46-11.94	50/30	/	1220	2.6
SCL-95/L	12.24-12.69	/	95	1330	2.0
SCL-70/40	13.49-13.78	70/40	/	1350	2.0
SCL-95/15	13.79-14.10	95/15	/	1470	2.2
SCL-95/20	14.11-14.56	95/20	/	1470	2.4
SCL-120/L	14.57-15.10	120/20	/	1470	2.4
SCL-120/20	15.75-16.39	120/25	150	1680	3.0
SCL-150/8		150/8			
SCL-150/20	16.40-16.10	150/20	/	1820	3.0
SCL-150/25		150/25			
SCL-150/35	17.11-17.54	150/35	185	1830	3.2
SCL-120/70	17.55-18.04	120/70	/	1830	3.2
SCL-185/10		185/10			
SCL-185/25		185/25			
SCL-185/30	18.59-19.00	185/30	210	1820	4.2
SCL-210/10		210/10			
SCL-180/45	19.52-20.10	180/45	240	1980	4.4
SCL-210/25		210/25			
SCL-210/35	20.11-20.94	210/35	/	1980	4.6
SCL-210/50		210/50			
SCL-240/30	21.48-22.09	240/30	/	2080	4.8
SCL-240/40		240/40			
SCL-240/55	22.10-22.69	240/55	300	2080	4.8
SCL-300/15	22.70-23.05	300/15	/	2080	5.6
SCL-300/20	23.39-23.79	300/20	/	2280	5.6
SCL-300/25		300/25			
SCL-300/40	23.80-24.45	300/40	/	2290	5.8
SCL-300/50		300/50			
SCL-300/70	25.08-25.54	300/70	/	2290	5.8
SCL-400/L	25.22-25.97	/	400	2740	8.8
SCL-400/20		400/20			
SCL-400/25	26.43-27.29	400/25	/	2740	8.8
SCL-400/35		400/35			
SCL-400/50	27.30-27.69	400/50	/	2740	9.2
SCL-400/65	27.70-28.40	400/65	/	2740	9.2
SCL-400/95	28.88-29.26	400/95	500	2740	9.4
SCL-500/35	29.87-30.68	500/35	/	2740	9.4
SCL-500/45		500/45			
SCL-500/65	30.69-31.14	500/65	/	2970	13.0
SCL-630/L	32.00-32.66	/	630	2970	13.6
SCL-630/45	33.69-34.42	630/45	/	2970	13.6
SCL-630/55		630/55			
SCL-630/80	34.43-35.41	630/80	/	3050	15.2
SCL-800/L	36.64-37.52	/	800	3050	15.2
SCL-800/55	37.53-38.51	800/55	/	3050	15.2
SCL-800/70	38.52-39.55	800/70	/	3050	15.2
SCL-800/100		800/100			

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地线用预绞式悬垂线夹

Preformed Suspension Clamp For Ground Wire

线夹型号 Type Of Clamp		地线外径 Outer Diameter Of Ground Wire (mm)	线夹参考长度L Reference Length Of Clamp L (mm)	线夹重量 Weight Of Clamp (kg)
CL-1/G	CL-1/GS	7.20	660/960	1.20
		7.00		
CL-4/G	CL-4/GS	7.80	660/960	1.20
CL-6/G	CL-6/GS	8.40	660/960	1.20
CL-7/G	CL-7/GS	9.00	660/960	1.20
CL-9/G	CL-9/GS	9.60	660/960	1.30
CL-10/G	CL-10/GS	10.00	900/1220	1.70
CL-11/G	CL-11/GS	10.50	900/1220	1.70
CL-12/G	CL-12/GS	11.00	900/1220	1.70
CL-13/G	CL-13/GS	11.40	900/1220	1.70
CL-15/G	CL-15/GS	12.00	900/1220	1.80
CL-16/G	CL-16/GS	12.50	1150/450	1.90

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铝包钢绞线(JLB)用预绞式悬垂线夹

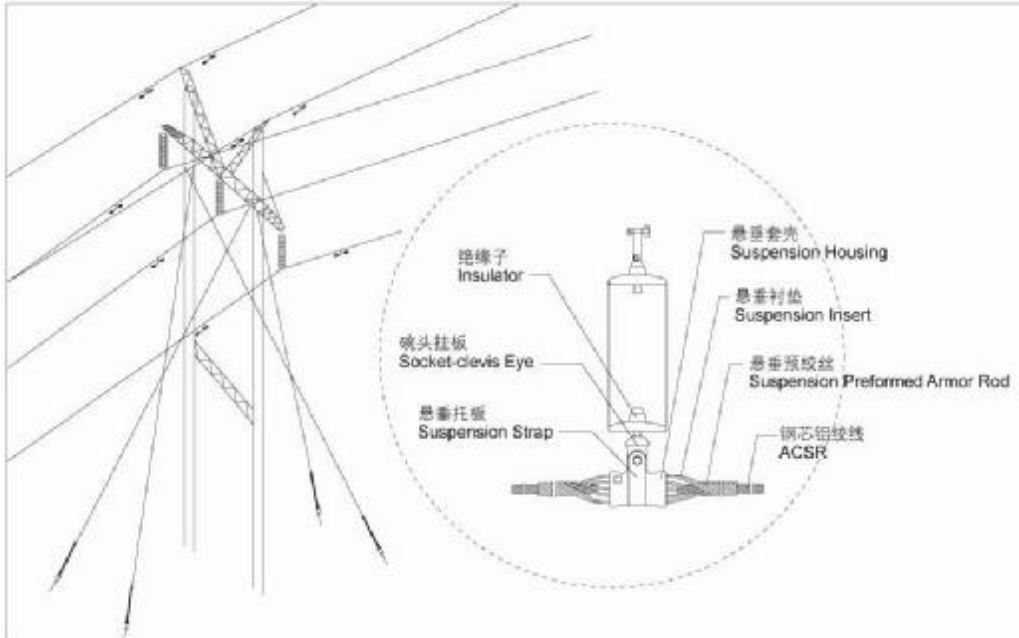
Preformed Suspension Clamp For JLB (Aluminum Covered Steel Wire) Conductor

产品型号 Type Of Product	适用铝包钢绞线(JLB) AS(JLB)		长度 Length(mm)	色标 Color Tag	
	截面 Section (mm ²)	外径 Outer Diameter (mm)			
NL-30/JLB	30	6.90	660	橙	Orange
NL-35/JLB	35	7.50	760	棕	Brown
NL-40/JLB	40	8.25	860	黄	Yellow
NL-50/JLB	50	9.00	960	红	Red
NL-55/JLB	55	9.60	1060	黄	Yellow
NL-65/JLB	65	10.50	1160	蓝	Blue
NL-70/JLB	70	10.80	1260	红	Red
NL-80/JLB	80	11.40	1360	黑	Black
NL-95/JLB	95	12.48	1460	绿	Green
NL-100/JLB	100	13.00	1560	橙	Orange
NL-120/JLB	120	14.25	1660	蓝	Blue
NL-150/JLB	150	15.75	1860	棕	Brown
NL-185/JLB	185	17.50	2060	红	Red

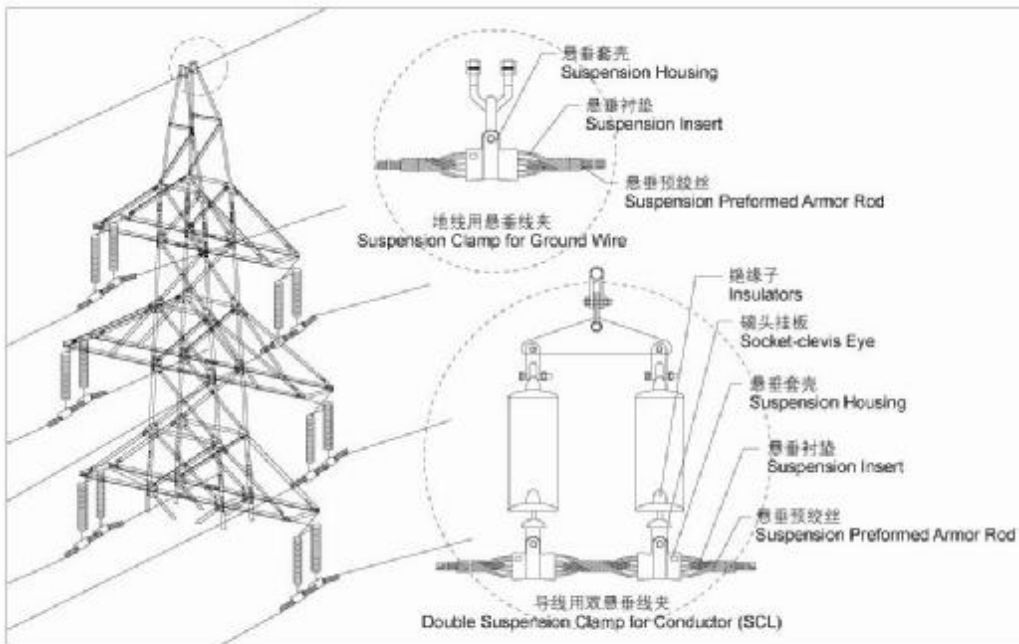
本表只列出部分产品, 其它产品请与本公司联系!

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预绞式悬垂线夹安装图 Installation Of Proformed Suspension Clamp



单回路
Transmission Line (Single)



双回路
Transmission Line (Double)



预绞式光缆悬垂线夹 Preformed Suspension Clamp For Optical Cable



- 1、联接件(可选件): 镀锌钢制件
- 2、铸铝夹块: 高强度铸造铝合金
- 3、橡胶夹块: 三元乙丙
- 4、外层预绞丝: 铝合金丝
- 5、内层预绞丝: 铝合金丝
- 6、并沟线夹: 硬质铝合金(仅OPGW用)
- 7、接地线: 铝合金线(仅OPGW用)

- 1、Link Fitting: Can choose
- 2、Housing: High-strength aluminium alloy casting
- 3、Insret: EPDM (Ethylene-propylene-Diene Monomer)
- 4、Outer Rods: High-strength aluminium alloy
- 5、Structural Reinforcing Rods: High-strength aluminium alloy
- 6、Parallel Clamps For OPGW: High-strength aluminium alloy
- 7、Grounding wire: Aluminium conductor with aluminium compatible lug (only for OPGW)

一般概述

预绞式悬垂线夹是将光缆悬挂在线路杆塔上的联接金具。保护光缆在架设、运行过程中不受损伤,并确保光纤变形最小。

产品特点

- 1、双层结构对于长时间不平衡负载的运行光缆起到更大的保护作用。有较好的动态应力承受能力,同时还能提高握力。
- 2、由于接触面积大,应力分布均匀,无应力集中点,增强了缆线安装点的刚度,对缆线起了很好的保护作用。
- 3、有较好的动态应力承载能力,可以提供足够的握力(10%-20%RTS),以保护光缆的不平衡载荷负载的条件下安全运行。
- 4、结构简单,安装很方便,不需要专用工具,免维护。

应用范围

- 1、该线夹可以用与110kV及以上的电力线路,同杆架设的光缆线路。
- 2、线路仰角小于25°的杆塔,大于25°的推荐使用双悬垂线夹,1套/杆塔。

General Recommendations

Preformed suspension clamp of single pivot is the suspension connector of the cable and poles, which can protect FOC from damage in the course of aerial installation and operation.

Product Characteristic

- 1、The structure of two layers of preformed strand string could make better protection for FOC, help it stand more moving power and improve the gripping power.
- 2、Because of the large touching area and equally distributed power, FOC is strengthened at the fixing point and therefore better protected.
- 3、When initially installed,the preformed suspension has a slip load of approximately 10-20% of a standard cable rated strength but significantly higher loads can be expected after the unit has been in service for a period of time.
- 4、Simple structure and convenient installation need no special tools or maintenance.

Applications

The clamp grip is used in cables accompanied with power wires (above 110kV)

The maximum recommended line angle for a single support suspension. Unit is 25°, for angles between 25° and 60°. The double suspension. We suggested can be used.

注意事项

线夹的握紧强度取决于OPGW的内部结构型式和绞丝材料。在订货时应根据OPGW光缆的极限抗拉强度及外径来选择合适的线夹。

标准产品适用于右旋OPGW。如果OPGW最外层为左旋时，应在订货时加以注明。

本预绞丝线夹在承受全张力后，建议一次性使用，其他配件在状况良好的情况。

Considerations

Offer cable diameter and RTS when they are ordered.

Outer layer of the clamp is right hand stranded. Notice us if needing left hand stranded.

When bearing the full suspension, the clamp is suggested to be used only once.



OPGW悬垂线夹参数表

Parameter Table Of Single Suspension Clamps For OPGW

产品型号 Specification	档距 Span (m)	内层预绞丝长度 Length Of Inner Preformed Strand String (mm)	外层预绞丝长度 Length Of Outer Preformed Strand String (mm)	重量 Weight (KG)
OC 0200 **	200以下	1600	1000	3.7
OC 0300 **	200~300	1700	1100	3.9
OC 0400 **	301~400	1900	1300	4.1
OC 0500 **	401~500	2000	1400	4.3
OC 0600 **	501~600	2100	1500	4.5
OC 0700 **	601~700	2200	1600	4.7
OC 0800 **	701~800	2400	1800	4.9
OC 0900 **	901~1000	2600	2000	5.1

O—OPGW, C—悬垂(Suspension), O+—档距(span), ** —光缆直径(Dia of Optial cable)

ADSS悬垂线夹参数表

Parameter Table Of Mide Span Single Suspension Clamps For ADSS

产品型号 Specification	档距 Span (m)	内层预绞丝长度 Length Of Inner Preformed Strand String (mm)	外层预绞丝长度 Length Of Outer Preformed Strand String (mm)	重量 Weight (KG)
AC 0200**	200以下	1500	900	3.8
AC 0300**	200~300	1600	1000	4.0
AC 0400**	301~400	1700	1100	4.2
AC 0500**	401~500	1800	1200	4.6
AC 0600**	501~600	1900	1300	4.8
AC 0700**	601~700	2000	1400	5.0
AC 0800**	701~800	2100	1500	5.2
AC 0900**	901~1000	2200	1600	5.4

A—ADSS, C—悬垂(Suspension), O+—档距(span), **—光缆直径(Dia of Optial cable)

ADSS短档距悬垂线夹 Short Span Suspension Clamp For ADSS



档距小于150m
If Span < 150m, we can choose it



可配套连接金具
Link Fittings



OPGW双悬垂线夹参数表

Parameter Table Of Double Suspension Clamps For OPGW

产品型号 Specification	适用绳径 Suitable Diameter (mm)	内层预绞丝长度 (mm) Length Of Inner Preformed Strand String	外层预绞丝长度 (mm) Length Of Outer Preformed Strand String	中心距 L Center Distance (mm)
OSC 1000 0460	9.5-10.0	2260	1660	460
OSC 1060 0460	10.1-10.6	2260	1660	460
OSC 1120 0460	10.7-11.2	2260	1660	460
OSC 1180 0460	11.3-11.8	2260	1660	460
OSC 1240 0460	11.9-12.4	2260	1660	460
OSC 1300 0460	12.5-13.0	2260	1660	460
OSC 1360 0460	13.1-13.6	2260	1660	460
OSC 1420 0460	13.7-14.2	2260	1660	460
OSC 1480 0460	14.3-14.8	2360	1760	560
OSC 1540 0460	14.9-15.4	2360	1760	560
OSC 1600 0460	15.5-16.0	2360	1760	560
OSC 1660 0560	16.1-16.6	2660	2060	660
OSC 1720 0560	16.7-17.2	2660	2060	660
OSC 1780 0560	17.3-17.8	2660	2060	660
OSC 1840 0560	17.9-18.4	2660	2060	660
OSC 1900 0560	18.5-19.0	2660	2060	660
OSC 1960 0560	19.1-19.6	2660	2060	660
OSC 2020 0560	19.7-20.2	2660	2060	660
OSC 2080 0560	20.3-20.8	2760	2160	660
OSC 2140 0560	20.9-21.4	2760	2160	660
OSC 2200 0560	21.5-22.0	2760	2160	660

普通悬垂线夹 Suspension Clamp



CTS双跳线悬垂线夹
CTS Suspension Clamps
For Twin Jumper Conductors



CGU悬垂线夹(带碗头挂板)
CGU Suspension Clamp
(With Socket-clevis Eye)



CGF型悬垂线夹(下垂式)
CGF Suspension Clamp
(Hang-down Type)



CGH铝合金线夹(提包式)
CGH Aluminium Alloy Clamp
(Envelope Type)



CTE4跳线悬垂线夹
Suspension Clamps For
Jumper Conductors



CCS型悬垂排列双跳线夹
CCS Perpendicular Double
Clamp



CGU悬垂线夹(带U型挂板)
CGU Suspension Clamp
(With U-clevis)



CGF型悬垂线夹
CGF Suspension Clamp



CGF型悬垂线夹(上扛式)
CGF Suspension Clamp
(Carried-up Type)



CGU悬垂线夹
CGU Suspension Clamps

一般概述

悬垂线夹主要用于架空电力线路或变电所，通过联接金具将导线、避雷针悬挂在绝缘子上或将避雷线悬挂在杆塔上。可由锻铸钢和铝合金两种材质制作而成。

产品型号中字母数字的意义为：

C—悬垂线夹，G—固定型，S—双线夹，U—U型螺栓，J—加强型，H—铝合金，F—防电晕型，K—上扛式，T—提包式，A—带碗头挂板，C—下垂式。

悬垂线夹的悬垂角不小于 25° ，曲率半径不小于被安装导线直径的8-10倍，对不同导线的握力与导线计算拉断力的百分比值应不小于下表的数值。

General Recommendations

Suspension clamps are used to hang conductor or ground wire through insulators or link fitting to tower arms or substating structures. The clamps are made of malleable iron or aluminium alloy.

The meanings of the letter & Arabic figure in the catalog are shown as follow:

C—suspension clamp, G—fixed, S—double clamp, U—U bolt, J—strength, H—aluminium alloy, F—corona control, K—under axle type, T—envelope type, A—with a socket-clevis, B—with U clevis, C—hang-down type.

The suspension angle of suspension clamps is not less than 25° , the radius of curvature is not less than the dia of installed leads by 8-10, and the percentage of the grip on different kinds of leads to the calculating capability of snap in following table.

导线类别 Conductor	导线结构(铝钢比) Construction (AL/ST)	百分比% Percentage %
钢芯铝绞线	>1.7	12
	4.0-4.5	18
	5.0-6.5	20
	7.0-8.0	22
	11.0-20.0	24
钢绞线	(极限强度1176-1270N/mm ²)	14
铝绞线		30

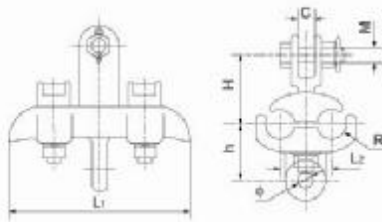
悬垂线夹用于铝绞线和钢芯绞线时，可在导线外缠绕铝包带或护线条，以保护导线，其适用导线外径包括包缠物。

As the suspension clamps are used to AAC and ACSR, the conductor may be wound by aluminium tapes or preformed armour rods for protecting these taps or rods are included in the diameter of suitable conductor.



1、悬垂线夹(双导线跳线用)

Suspension Clamps For Twin Jumper Conductors

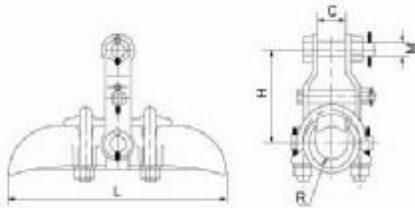


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)								标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		Φ	R	L ₁	L ₂	M	C	h	H		
CTS-1	17.0-21.0	18	11	200	50	16	19	57	76	40	4.5
CTS-2	21.0-27.0	18	14	200	52	16	19	59	77	40	5.0
CTS-3	25.0-31.0	18	16	200	56	16	19	62	77	40	5.0

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制作。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

2、悬垂线夹(耐磨型)

Suspension Clamps (Abrasion-proof Type)

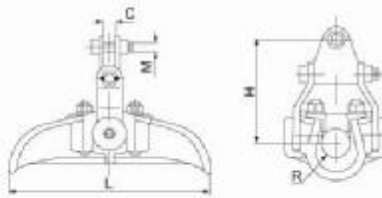


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)				标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	R	L	M		
CGU-2F	7.1-13.0	103	7	200	16	40	2.4
CGU-3F	13.1-21.0	121	11	220	16	40	2.5

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制作。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

3、悬垂线夹(下垂式)

Suspension Clamps (Hang-down Type)

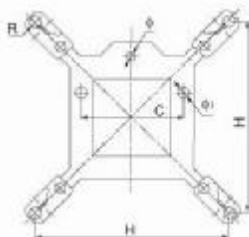


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	C	M	R	L		
CGF-4X	20.2-25.0	143	20	16	13.0	300	60	3.0
CGF-5X	24.2-33.0	145	20	16	16.0	300	60	3.5
CGF-6X	34.0-43.0	180	20	18	22.0	300	90	4.8
CGF-7X	40.0-52.0	191	20	18	26.0	300	100	5.8

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制作。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

4、跳线悬垂线夹

Suspension Clamps For Jumper Conductors

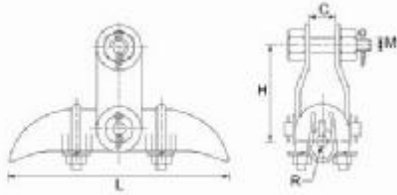


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)					重量 Weight (kg)
		H	C	Φ	R	Φ ₁	
CT4	23.0-27.0	450	240	18	13.5	26	7.0
CT44S/400	26.0-32.0	450	240	18	16.0	26	7.2

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制作。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

5. 悬垂线夹(中心回转式)

Suspension Clamps (Trunnion Type)



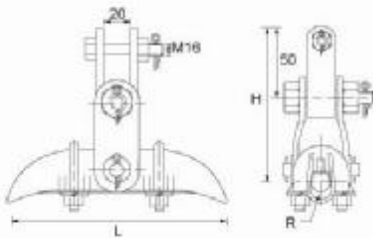
型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	L	R	C	M		
CGU-1	5.0-7.0	82	180	4.0	18	16	40	1.4
CGU-2	7.1-13.0	82	200	7.0	18	16	40	1.8
CGU-3	13.1-21.0	102	220	11.0	18	16	40	2.0
CGU-4	21.1-26.0	110	250	13.5	18	16	40	3.0

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作，其余为热镀锌钢制件。

The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

6. 悬垂线夹(带U形挂板)

Suspension Clamps (With Clevis)



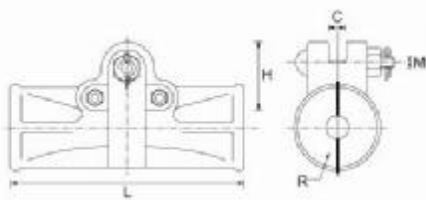
型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)			标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	L	R		
CGU-5B	23.0-33.0	137	300	17	70	5.4
CGU-6B	34.0-45.0	143	300	23	70	5.8
CGU-7B	45.0-48.7	156	300	26	70	6.2

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作，其余为热镀锌钢制件。

The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

7. 悬垂线夹(悬扛通用)

Suspension Clamps (Carried-up And Hang-down Optionally)



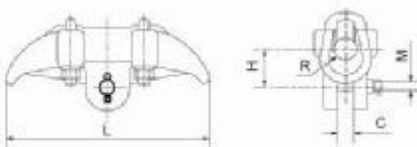
型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		C	M	H	L	R		
CGF-300	23.7	24	16	60	250	13.0	40	3.0
CGF-1400	51.0	24	16	63	240	26.5	60	4.8

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作，其余为热镀锌钢制件。

The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

8. 悬垂线夹(上扛式)

Suspension Clamps (Carried-up Type)



型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		C	M	H	L	R		
CGF-5K	24.2-33.0	24	16	55	300	16	60	3.0
CFK-8030	33.0-38.0	24	16	60	330	19.5	80	3.6

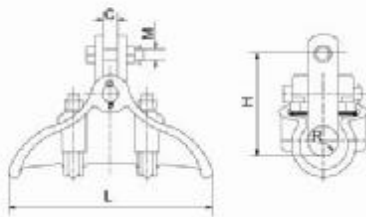
线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作，其余为热镀锌钢制件。

The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.



9、悬垂线夹(下垂式)

Suspension Clamps (Hang-down Type)

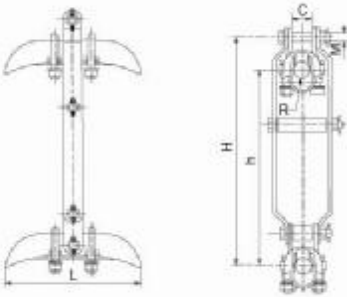


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)					额定破坏载荷(KN) Rated Failure Load (KN)	重量 Weight (kg)
		C	M	H	L	R		
CGF-5X	24.2-33.0	20	16	143	300	13.0	60	3.0
CGF-5X	24.2-33.0	20	16	146	300	16.0	60	3.5
CGF-6X	34.0-43.0	20	18	180	300	22.0	90	4.8

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

10、悬垂线夹(双导线用)

Suspension Clamps For Twin Conductors

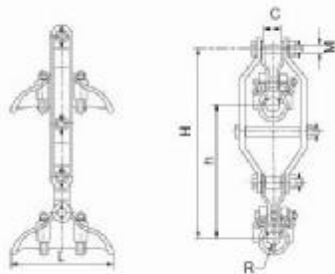


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)						额定破坏载荷(KN) Rated Failure Load (KN)	重量 Weight (kg)
		h	L	R	C	H	M		
CCS-4	21.0-26.0	400	250	13.5	20	490	16	70	9.3
CCS-5	23.0-33.0	400	300	17.0	38	490	18	100	10.8
CCS-6	34.0-45.0	400	300	23.0	38	495	18	100	12.5

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

11、悬垂线夹(双导线用、节能型)

Aluminium Alloy Suspension Clamps For Twin Conductors

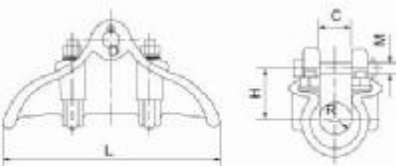


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)						额定破坏载荷(KN) Rated Failure Load (KN)	重量 Weight (kg)
		h	L	R	H	C	M		
CCS-4H	21.0-26.0	400	300	13.5	500	42	16	70	10.2
CCS-5H	26.0-31.5	400	300	16.0	550	44	18	100	11.4
CCS-6H	32.0-43.0	400	300	22.0	585	50	22	120	12.9

闭口端为不锈钢制作，紧固件为热镀锌钢制件，其余为铝合金制件。
Cotter-pins are stainless steel, fasteners are hot-dip galvanized steel, the other parts are aluminium alloy.

12、悬垂线夹(铝合金提包式)

Aluminium Alloy Suspension Clamps (Envelope Type)

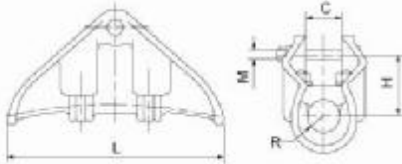


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)					额定破坏载荷(KN) Rated Failure Load (KN)	重量 Weight (kg)
		C	M	H	L	R		
CGH-3	12.4-17.0	53	20	16	10	180	40	1.5
CGH-4	19.0-23.5	74	28	16	12	226	40	2.3
CGH-5	23.0-32.0	68	35	16	15	216	60	3.0
CGH-6	25.0-35.0	68	35	16	17.5	216	60	3.6
CGH-8	48.0-53.0	97	56	20	27	300	60	5.5

线夹本体和压板为可锻铸铁件，闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

13. 悬垂线夹(防晕型)

Suspension Clamps (Corona-proof Type)

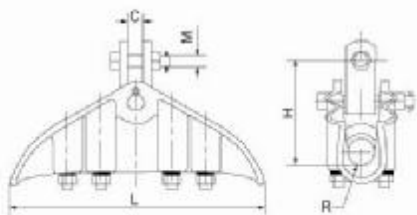


型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	C	M	R	L		
CGF-6	36.0-43.0	70	44	16	22	300	80	3.8
CGF-53	43.0-51.0	100	56	16	26	350	70	5.6
CGF-6X/GH	34.0-43.0	92	48	18	22	300	90	4.5

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

14. 悬垂线夹(CGJ型)

Suspension Clamps (Type CGJ)

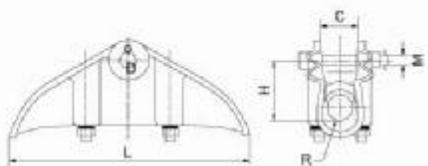


型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	C	M	R	L		
CGJ-3	13.8-18.0	133	18	16	9	380	70	7.6
CGJ-4	22.0-31.0	193	26	24	16	400	125	13.0
CGJ-5	31.0-43.0	121	44	30	22	390	120	10.0
CGJ-3HT	33.0-39.0	187	24	22	20	390	100	12.4
CGJ-5H	36.0-43.0	202	26	24	22	400	120	14.5
CGJ-5Z	36.0-43.0	202	26	24	22	400	120	16.0
CGJ-6Z	36.0-47.0	212	26	24	24	500	150	20.0

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

15. 悬垂线夹(CGT型)

Suspension Clamps (Type CGT)

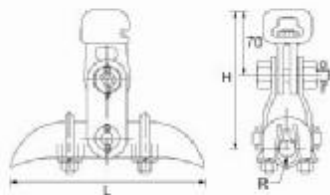


型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)					标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	C	M	R	L		
CGT-1	5.0-7.0	60	18	18	4.0	180	40	3.3
CGT-2	7.1-13.0	75	18	18	7.0	200	40	4.9
CGT-3	13.1-21.0	75	27	16	11.0	220	40	5.6
CGT-4	21.1-26.0	75	27	16	13.5	250	60	6.5
CGT-5	23.0-33.0	81	38	16	17.0	300	60	8.7
CGT-6	34.0-45.0	89	46	16	23.0	300	60	9.8

线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.

16. 悬垂线夹(带碗头挂板)

Suspension Clamps (Whit Socket-clevis)

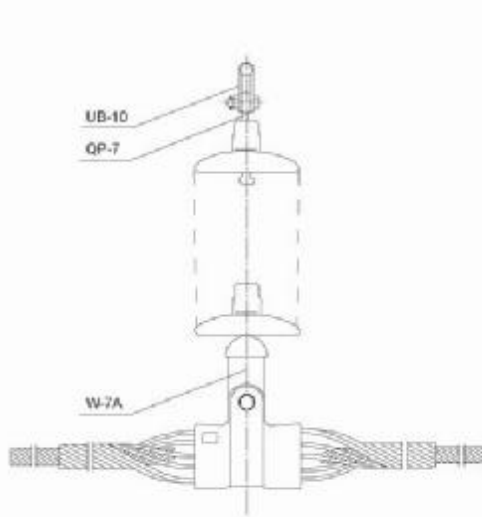


型号 Catalog No.	适用导线范围 Conductor Dia. (mm)	主要尺寸 Dimension (mm)			标称破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		H	L	R		
CGU-5A	23.0-33.0	157	300	17	60	5.7
CGU-6A	34.0-45.0	163	300	23	60	6.1

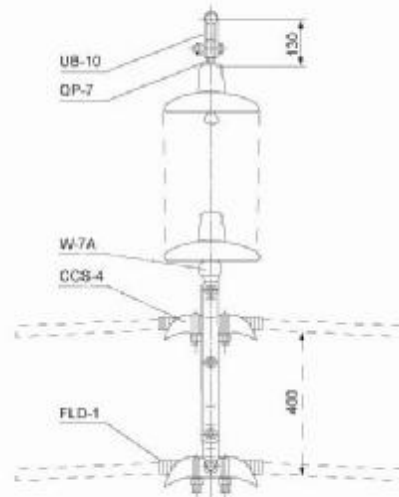
线夹本体和压板为可锻铸铁件。闭口端为不锈钢制作。其余为热镀锌钢制件。
The clamp body and keepers are malleable iron. Cotter-pins are stainless steel. The other parts are steel. All ferrous parts are hot-dip galvanized.



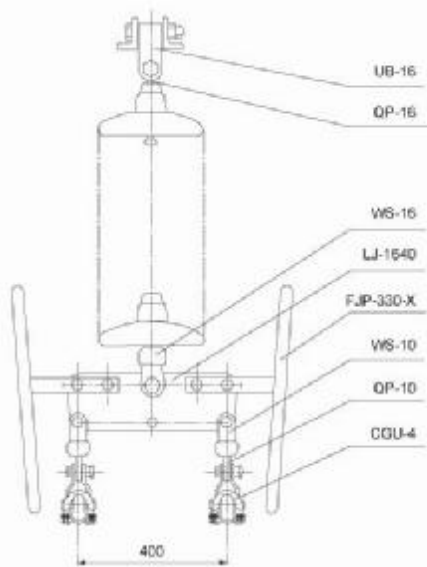
悬垂线夹组装图 Installation Of Suspension Clamp



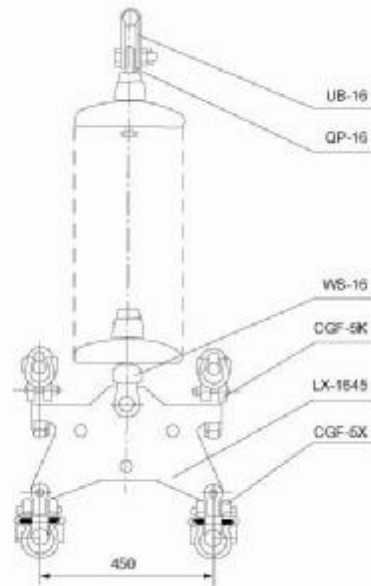
单导线单联悬垂串
Single Suspension String for One Conductor



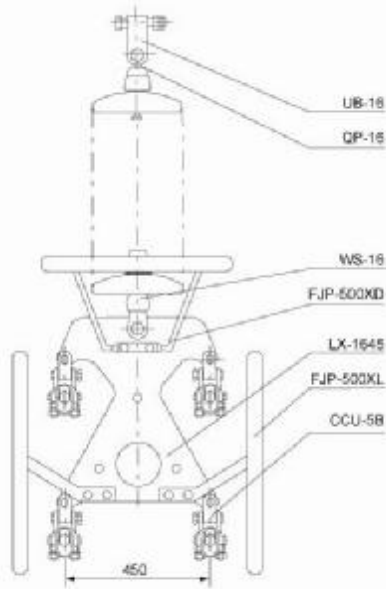
双分裂导线单联悬垂串
Single Suspension String for Two-Bundle Conductor



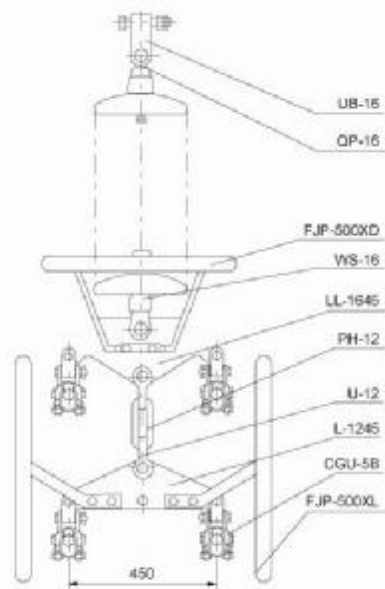
双分裂导线单联悬垂串(水平排列)
Single Suspension String for Two-Bundle Conductor



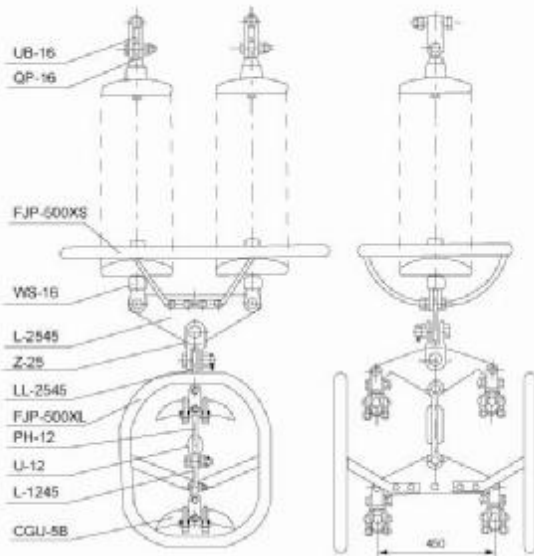
四分裂导线单联悬垂串(上拉联板)
Single Suspension String for Two-Bundle Conductor
(Using Yoke Plate with Type LX)



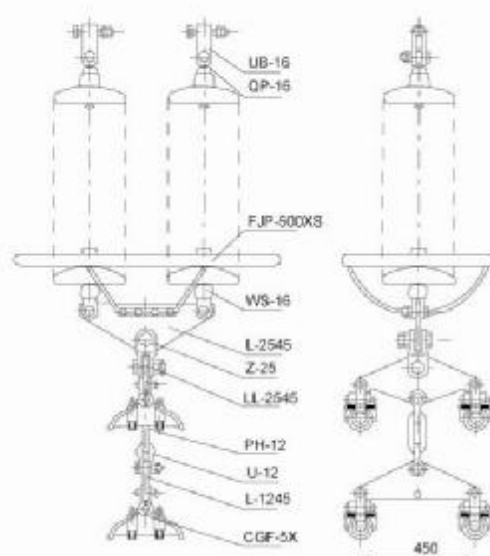
四分裂导线单联悬垂串(小人联板)
Single Suspension for Four-Bundle Conductor
(Using Yoke Plate with Type LX)



四分裂导线单联悬垂串(组合联板)
Single Suspension for Four-Bundle Conductor
(Using Combined Yoke Plate)



四分裂导线双联悬垂串
Double Suspension String for Four-Bundle Conductor



四分裂导线单联悬垂串(防晕线夹)
Double Suspension String for Four-Bundle Conductor
(Corona-proof Clamp)

耐张金具 Dead-end Clamp/Strain Clamp

预绞式导线耐张线夹(NL) Preformed Dead-end Clamp For Conductor

B



1. 绞合环：用于较小截面的导线，此处不进行绞合；用于较大截面的导线，采用扭绞工艺。
2. 标签：适用导线规格及产品型号。
3. 色标：安装位置标记。
4. 长度：不同规格型号的耐张线夹长度不同。
5. 材料：一般采用铝包钢丝或镀锌钢丝。

1. **Open Helix Loop**, this section can not be stranded for small conductor; our company adopts stranding technology for large conductor.
2. **Identification Tag**, specification of applicable conductor and type of product.
3. **Color Code And Cross-over-marks**, mark of installation position.
4. **Length**, dead-end clamps with different specifications and types have different lengths.
5. **Material** Aluminum covered steel with grit.

一般概述

预绞式导线耐张线夹(以下简称耐张线夹)是拉力强、结构简单的导线线夹。主要适用在主干线和分配电线路的裸导线和绝缘导线上。它的拉力相当于国内常用的普通耐张线夹，部份可以替代目前使用的螺栓式耐张线夹。

耐张线夹原理

一组预绞丝经合并后形成了一个空管，当空管缠绕在导线上受力时即对导线产生了握紧力，保证了导线的握紧强度。而另一端可以通过嵌环固定在绝缘子上。

产品特点

高强度是耐张线夹的显著特点。一般每个导线线夹均有一段握紧余量，保证线夹对导线的握紧力可达到其额定拉断力以上。

选用优质材料，可以防止线夹和导线之间发生电化腐蚀现象，保证了杆塔的安全简单的结构，给线夹的安装带来了便捷，手工现场操作，不需要任何的专用工具。

General Recommendations

Preformed conductor dead-end clamp (for short hereinafter: dead-end clamp) is a kind of conductor clamp with strong tensility and simple structure. It is mainly applied to bare conductor and insulated conductor of trunk line and power distribution line. Its tensility is equal to the dead-end clamps commonly used in China. Therefore, it can replace the bolt type dead-end clamp used at present.

Principle Of Dead-end Clamp

After combination, one group of preformed armor rods forms a hollow tube. When it is coiled on the conductor under load, it will generate gripping force to conductor to ensure the gripping strength of guy wire. The other end can be fixed on the insulator by thimble.

Product Characteristic

Special principle and simple structure provide conductor clamp with following characteristics;

High strength is the notable characteristic of dead-end clamp. Generally, every conductor clamp has one section of gripping margin to ensure that the clamp's gripping force to conductor will be higher than RTS;

导线线夹的安装质量可以用肉眼直接检测，安装外观简洁美观。

Select the materials with good quality to prevent electric corrosion between clamp and conductor for security of supports; Simple structure is convenient for installation. Manual operation on the spot without any requirement of special tools;

Installation quality of conductor clamp can be directly inspected by unaided eyes. Installation appearance is compact and pleasing.

须知

1. 本产品为具有特殊功能的一次性产品，使用时不可改变本产品的组成部件及数量；
2. 在带电线路或附件操作时，应注意安全，以防触电事故，在安装本产品前应根据线路的导线规格选择合适的耐张线夹，保证安装的良好性能；
3. 本产品仅由经过培训的熟练工人操作，未经过培训的人员均不得进行操作。
4. 该线夹的旋向应保持一致。标准的耐张线夹一般是右旋，如需要左旋耐张线夹，请事先预订。

Consideration

1. Because this product has special function and it can be used only once, it can't be changed during application;
2. Be careful during working on live line or accessories to prevent electric shock. Select suitable dead-end clamp according to the line's conductor specification before installation to ensure good performance of installation;
3. This product can be only operated by trained and skilled worker. Untrained person is forbidden to do operation;
4. The revolving directions of the clamps shall be kept consistent. Generally, the standard dead-end clamp adopts right rotation. Please order in advance if you require left rotation.



产品图片 Product Picture



工程应用 Project Picture



10KV线路终端线路
10KV Line Terminal



110KV线路
110KV Line

绝缘导线(1kV、10kV薄绝缘层)用预绞式耐张线夹

Preformed Dead-end Clamp For Insulated Conductor (1kV & 10kV Thin Insulated Layer)

产品型号 Type Of Product	适用直径范围 Applicable Diameter Range (mm)	1kV以下绝缘 导线型号 Type Of Insulated Conductor Below 1kV	10kV薄绝缘 层导线型号 Type Of 10kV Thin Insulated Layer Conductor	长度 Length (mm)	色标 Color Tag
NL-10/D	5.82-6.53	10	/	460	橙 Orange
NL-16/D	6.55-7.34	16	/	530	黄 Yellow
NL-25/D	8.28-9.25	25	/	690	绿 Green
NL-35/D	9.26-10.39	35	/	740	蓝 Blue
NL-50/D	10.40-11.68	50	/	790	红 Red
NL-70/D	11.69-13.11	70	/	860	橙 Orange
NL-25/BJY	11.69-13.11	/	25	860	橙 Orange
NL-35/BJY	11.69-13.11	/	35	860	橙 Orange
NL-50/BJY	13.12-14.66	/	50	889	黄 Yellow
NL-95/D	14.67-16.59	95	/	978	绿 Green
NL-120/D	14.67-16.59	120	/	978	绿 Green
NL-70/BJY	14.67-16.59	/	70	978	绿 Green
NL-150/D	16.60-18.77	150	/	1016	蓝 Blue
NL-95/BJY	16.60-18.77	/	95	1016	蓝 Blue
NL-185/D	18.78-21.26	185	/	1100	红 Red
NL-120/BJY	18.78-21.26	/	120	1100	红 Red
NL-150/BJY	18.78-21.26	/	150	1100	红 Red
NL-240/D	21.27-24.05	240	/	1200	绿 Green
NL-185/BJY	21.27-24.05	/	185	1200	绿 Green
NL-240/BJY	24.06-27.20	/	240	1300	蓝 Blue
NL-300/BJY	24.06-27.20	/	300	1400	蓝 Blue

绝缘导线(1kV、10kV)普通绝缘层用预绞式耐张线夹

Preformed Dead-end Clamp For Insulated Conductor (1kV, 10kV Common Insulated Layer)

产品型号 Type Of Product	通用铝绞线 (LJ) GB/T 1179-1983 Applicable Aluminum Strand Wire (LJ)GB/T 1179-1983		长度 Length (mm)	色标 Color Tag
	截面 Section (mm ²)	外径 Outer Diameter (mm)		
NL-35/JY	35	14.80	900	黄 Yellow
NL-50/JY	50	16.10	900	绿 Green
NL-70/JY	70	17.80	1000	红 Red
NL-95/JY	95	19.60	1100	蓝 Blue
NL-120/JY	120	21.00	1100	橙 Orange
NL-150/JY	150	22.60	1200	红 Red
NL-185/JY	185	24.20	1300	绿 Green
NL-240/JY	240	26.40	1400	黑 Black
NL-300/JY	300	28.60	1500	蓝 Blue

注:型号中文字与数字的意义:D—低电压等级;N—耐张线夹;L—螺旋预绞式;“—”后为适用导线型号;BJY—绝缘导线(GB14049—1993)。
Note: The meaning of letters and numbers in the type: D—Low voltage; N—Dead-end clamp; L—Spiral preformed type; the expression after “—” is the type of applicable conductor; JY—Insulated conductor (GB14049—1993).

B

钢芯铝绞线用预绞式耐张线夹

Preformed Conductor Dead-end Clamp For ACSR Conductor

线夹型号 Type Of Clamp	适用导线类型 (GB 1179-83) 钢芯铝绞线 (LGJ/LGJF) Type Of Applicable Conductor(GB 1179-83) Steel Core Aluminum Strand Wire (LGJ/LGJF)	重量 Weight (kg)	线夹参考长度 Reference Length Of Clamp (mm)	色标 Color Tag
NL-16/3	16/3	1.0	500	棕 Brown
NL-25/4	25/4	1.0	600	黄 Yellow
NL-35/6	35/6	1.2	650	红 Red
NL-50/8	50/8	1.3	750	黄 Yellow
NL-70/10	70/10	1.4	800	蓝 Blue
NL-50/30	50/30	1.4	800	蓝 Blue
NL-70/40	70/40	1.5	900	红 Red
NL-95/15	95/15	1.5	900	红 Red
NL-95/20	95/20	1.5	900	红 Red
NL-120/7	120/7	1.5	900	红 Red
NL-120/20	120/20	1.6	1000	黑 Black
NL-95/55	95/55	1.8	1200	黑 Black
NL-120/25	120/25	1.8	1200	黑 Black
NL-150/8	150/8	1.8	1200	黑 Black
NL-150/20	150/20	2.0	1300	绿 Green
NL-150/25	150/25	2.0	1300	绿 Green
NL-150/35	150/35	2.0	1300	绿 Green
NL-120/70	120/70	2.0	1300	绿 Green
NL-185/10	185/10	2.0	1300	绿 Green
NL-185/25	185/25	2.4	1400	橙 Orange
NL-185/30	185/30	2.4	1400	橙 Orange
NL-210/10	210/10	2.4	1400	橙 Orange
NL-180/45	180/45	2.4	1400	橙 Orange
NL-210/25	210/25	2.4	1400	橙 Orange
NL-210/35	210/35	2.4	1400	橙 Orange
NL-210/50	210/50	2.4	1400	橙 Orange
NL-240/30	240/30	2.8	1600	蓝 Blue
NL-240/40	240/40	2.8	1600	蓝 Blue
NL-240/55	240/55	2.8	1600	蓝 Blue
NL-300/15	300/15	3.2	1800	蓝 Blue
NL-300/20	300/20	3.2	1800	蓝 Blue
NL-300/25	300/25	3.2	1800	蓝 Blue
NL-300/40	300/40	3.2	1800	蓝 Blue
NL-300/50	300/50	3.5	2000	棕 Brown
NL-300/70	300/70	3.5	2000	棕 Brown

注:型号中文字与数字的意义,N—耐张线夹;L—螺旋预绞式;"—"后为适用导线型号。

Note: The meaning of letters and numbers in the type: N—Dead-end clamp; L—Spiral preformed type; the expression after "—" is the type of applicable conductor.



铝包钢绞线(JLB)用预绞式耐张线夹

Preformed Dead-end Clamp For JLB (Aluminum Covered Steel Wire) Conductor

产品型号 Type Of Product	适用铝包钢绞线(JLB) AS(JLB)		长度 Length (mm)	重量 Weight (kg)	色标 Color Tag	
	截面 Section (mm ²)	外径 Outer Diameter (mm)				
NL-30/JLB	30	6.90	750	1.0	棕	Brown
NL-35/JLB	35	7.50	850	1.1	黄	Yellow
NL-40/JLB	40	8.25	1000	1.2	红	Red
NL-50/JLB	50	9.00	1150	1.3	黄	Yellow
NL-55/JLB	55	9.60	1350	1.4	蓝	Blue
NL-65/JLB	65	10.50	1500	1.5	红	Red
NL-70/JLB	70	10.80	1650	1.6	黑	Black
NL-80/JLB	80	11.40	1750	1.7	绿	Green
NL-95/JLB	95	12.48	1850	1.8	橙	Orange
NL-100/JLB	100	13.00	1900	2.0	蓝	Blue
NL-120/JLB	120	14.25	2000	2.2	棕	Brown
NL-150/JLB	150	15.75	2100	2.4	红	Red
NL-185/JLB	185	17.50	2200	2.6	蓝	Blue

注: 型号中文字与数字的意义: N—耐张线夹, L—螺旋预绞式, “—”后为适用导线型号, JLB—铝包钢绞线。

Note: The meaning of letters and numbers in the type: N—Dead-end clamp; L—Spiral preformed type; the number after “—” is the type of applicable conductor.

铝绞线(LJ)用预绞式耐张线夹

Preformed Dead-end Clamp For LJ(AC) Conductor

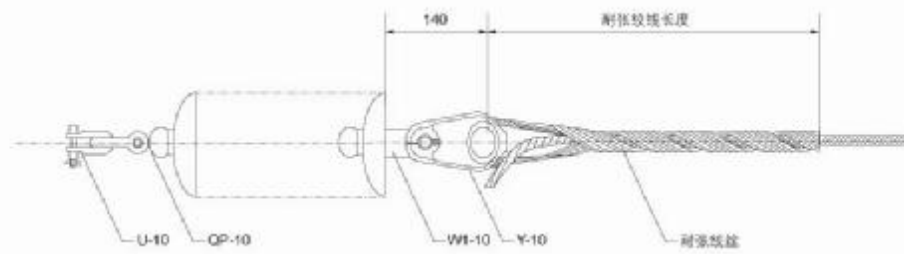
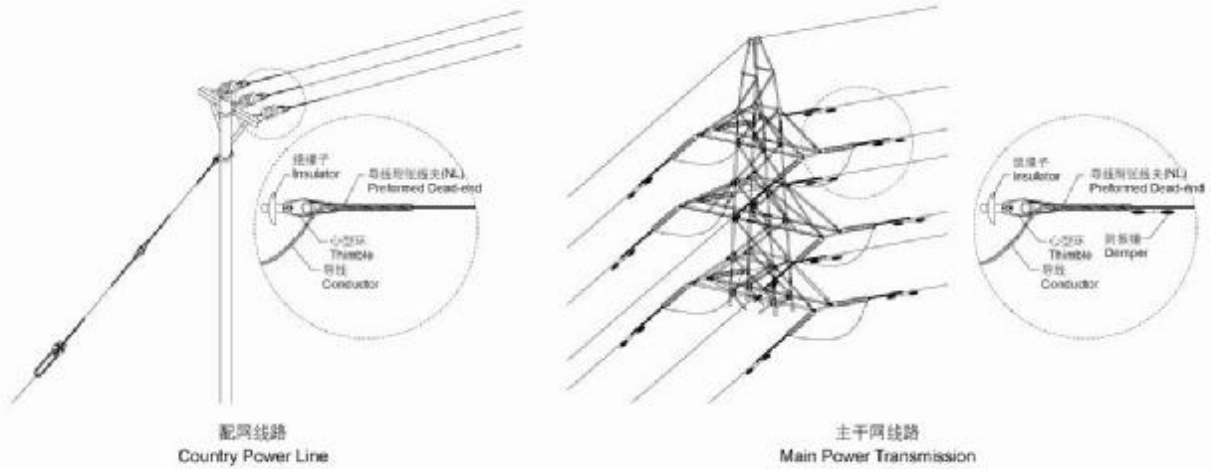
线夹型号 Type Of Clamp	适用铝绞线(LJ)/GB/T 1179-1983 Applicable Aluminum Strand Wire (LJ) GB/T 1179-1983		长度L Length Of Clamp L (mm)	重量 Weight (kg)	色标 Color Tag	
	截面 Section (mm ²)	外径 Outer Diameter (mm)				
NL-16/LJ	16	5.10	500	0.5	蓝	Blue
NL-25/LJ	25	6.45	600	0.7	橙	Orange
NL-35/LJ	35	7.50	700	0.9	红	Red
NL-50/LJ	50	9.00	700	0.9	绿	Green
NL-70/LJ	70	10.80	800	1.0	蓝	Blue
NL-95/LJ	95	12.48	900	1.1	橙	Orange
NL-120/LJ	120	14.25	1000	1.3	红	Red
NL-150/LJ	150	15.75	1100	1.4	黑	Black
NL-185/LJ	185	17.50	1200	1.5	绿	Green
NL-210/LJ	210	18.75	1400	1.6	绿	Green
NL-240/LJ	240	20.00	1600	2.0	橙	Orange
NL-300/LJ	300	22.40	1800	2.1	蓝	Blue
NL-400/LJ	400	25.90	2000	2.3	棕	Brown
NL-500/LJ	500	29.12	2200	2.5	橙	Orange

注: 型号中文字与数字的意义: N—耐张线夹, L—螺旋预绞式, LJ—铝绞线, “—”后为适用导线型号。

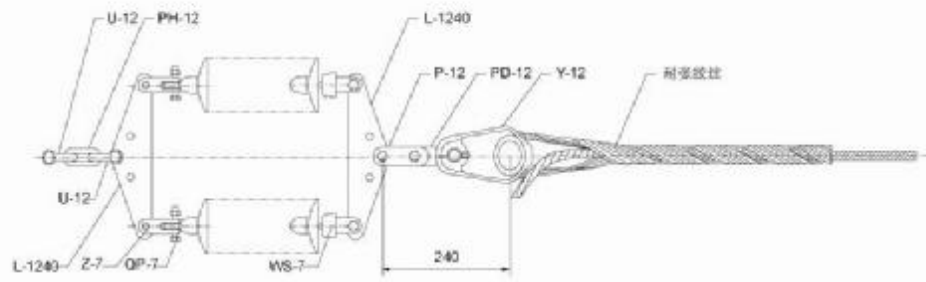
Note: The meaning of letters and numbers in the type: N—Dead-end clamp; L—Spiral preformed type; the expression after “—” is the type of applicable conductor.

B

预绞式耐张线夹组装图 Installation Figure Of Preformed Dead-end Clamp



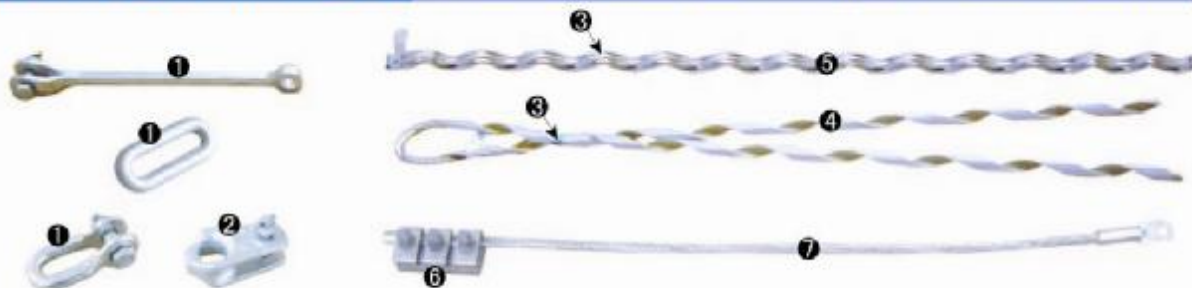
单导线单联耐张串
Single Dead-end Clamp For Single Conductor



单导线双联耐张串
Double Dead-end Clamp For Single Conductor

预绞式光缆耐张金具

Preformed Dead-end Clamp For ADSS/OPGW



- 1、联结件(可选件): 镀锌钢制件。
- 2、心形环: 镀锌铸件。
- 3、色标: 安装位置标记。
- 4、外层预绞丝: 铝包钢, 内侧喷砂。
- 5、内层预绞丝: 铝包钢, 内侧喷砂, 如果ADSS光缆档距小于150m, 此组件不配。
- 6、并沟线夹: 高强度铝合金(仅OPGW用)
- 7、接地线: 铝合金线(仅OPGW用)

1. Link Fitting (can choose): galvanized steel or galvanized ductile iron.
2. Thimble Clevis: hot-dip galvanized steel.
3. Color Code And Cross-over-marks: mark of installation position.
4. Dead-end Component: Aluminum covered steel with girt iron.
5. Structural Reinforcing Rod Component: Aluminum covered steel with girt. If span less than 150m, for ADSS, it can be leaved out.
6. Parallel Groove Clamps: Aluminum alloy (only for OPGW).
7. Grounding Wire: Aluminum conductor with aluminum compatible lug (only for OPGW).

一般概述

光缆耐张线夹均匀地分配径向压力, 并传递轴向拉力, 保证不损伤光缆的前提下提供安全可靠的握紧力。

General Recommendations

The clamp distributes radial pressure and passes axial pulling force equally. It also provides safe and reliable gripping power in the premise of protecting cable not to be damaged.

产品特点

- 1、内、外绞丝的内壁涂喷磨砂, 以增加阻尼效果, 对光缆有良好的保护作用。
- 2、由于接触面积大, 应力分布均匀, 无应力集中点, 对缆起了很好的保护作用。
- 3、对光缆的握力不低于OPGW光缆的95%RTS, ADSS光缆的75%RTS, 完全适合光缆的架设需要。
- 4、所选用的材料有强的抗腐蚀、耐老化性。
- 5、结构简单, 安装很方便, 不需要专用工具, 免维护。

Product Characteristic

1. Walls of both inner and outer standing wire are sprayed carborundum in order to increase the damping effect, through which cables are finely protected.
2. Cables are finely protected because stress is equally distributed in large touching area without intensive stress pivot.
3. The grip fprc is more than 95%RTS of OPGW or more than 75%RTS of ADSS.
4. All the materials selected are against corrosion and have long operation life.
5. Simple structure, easy intallation and free from special tools or maintenance.

基本配置

终端杆塔配	1套/杆塔
耐张杆塔配	2套/杆塔
转角(仰角)大于25°的杆塔	2套/杆塔
接续杆塔	2套/杆塔

Basic Configuration

Terminal pole or tower	1 set / pole or tower
Strain pole or tower	2 sets / pole or tower
Corner pole having turning angle more than 25°	2 sets / pole or tower
Connecting pole or tower	2 sets / pole or tower

注意事项

线夹的握紧强度取决于OPGW的内部结构型式和绞丝材料。在订货时应根据OPGW光缆的极限抗拉强度及外径来选择合适的线夹。

标准产品适用于右旋OPGW。如果OPGW最外层为左旋时，应在订货时加以注明。

本预绞丝线夹在承受全张力后，建议一次性使用，其他配件在状况良好的情况下，有必要时可以重复使用。

Consideration

Offer cable diameter and RTS when they are ordered.

Outer layer of the clamp is right hand stranded .Notice us if needing left hand stranded.

When bearing the full Dead-End ,the clamp is suggested to be used only once.

ADSS光缆金具配置参数表

Preformed Dead-end Clamp For ADSS

产品型号 Specification	适用光缆握力 (mm) Range Of Slip (KN)	内层预绞丝长度 (mm) Length Of Inner Preformed Strand String	外层预绞丝长度 (mm) Length Of Outer Preformed Strand String	重量 Weight (KG)
AN 015 **	0-15	/	1340	1.2
AN 020 **	15-20	1400	1040	2.1
AN 025 **	20-25	1700	1340	2.3
AN 030 **	25-30	1900	1540	2.5
AN 040 **	30-40	2000	1640	2.8
AN 050 **	40-50	2100	1740	3.0
AN 060 **	50-60	2200	1840	3.5
AN 070 **	60-70	2300	1940	3.8

A—ADSS,N—耐张(Dead-end),0+—握力[slip],**—光缆直径(Dia. of ADSS)

OPGW光缆金具配置参数表

Preformed Dead-end Clamp For OPGW

产品型号 Specification	适用光缆握力 (mm) Range Of Slip (KN)	内层预绞丝长度 (mm) Length Of Inner Preformed Strand String	外层预绞丝长度 (mm) Length Of Outer Preformed Strand String	重量 Weight (KG)
ON 050 **	50	1700	1340	2.1
ON 060 **	60	1900	1540	2.3
ON 070 **	70	2000	1640	2.5
ON 080 **	80	2100	1740	2.8
ON 090 **	90	2200	1840	3.0
ON 100 **	100	2300	1940	3.5
ON 120 **	120	2500	2140	3.8
ON 160 **	160	2600	2240	4.8

O—OPGW,N—耐张(Dead-end),0+—握力[slip],**—光缆直径(Dia. of OPGW)

ADSS光缆短档耐张 Short Span Dead-end Clamp For ADSS

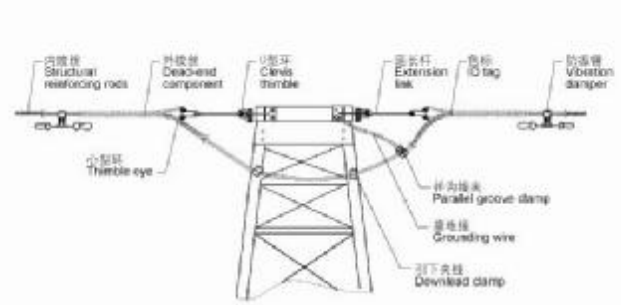


光缆金具安装图 Preformed Dead-end Clamp Applications For ADSS, OPGW

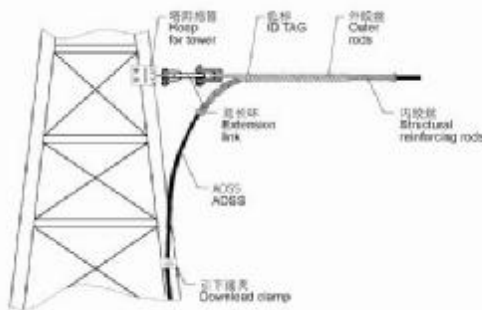
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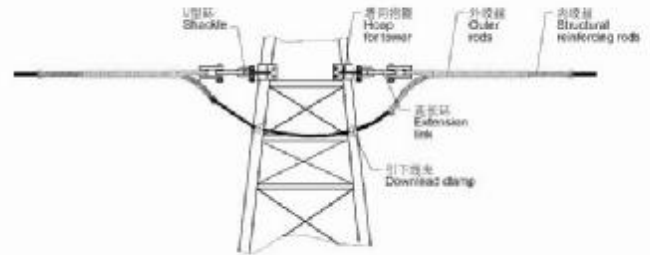
OPGW中间接续塔耐张线夹安装图
Installation Figure Of OPGW Dead-end On Joint Tower



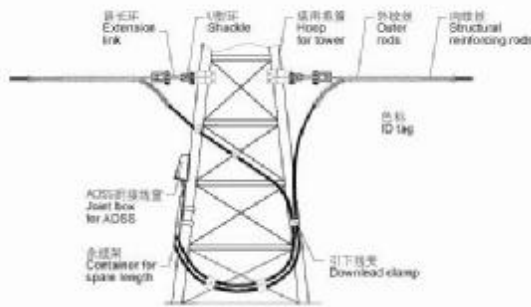
OPGW中间耐张塔耐张线夹安装图
Installation Figure Of OPGW Dead-end On Tension Tower



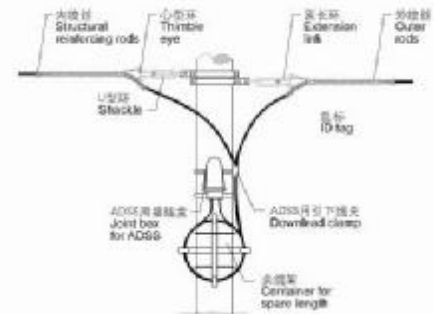
ADSS光缆耐张线夹在终端塔上的安装示意图
Installation Figure Of ADSS Dead-end On Terminal Tower



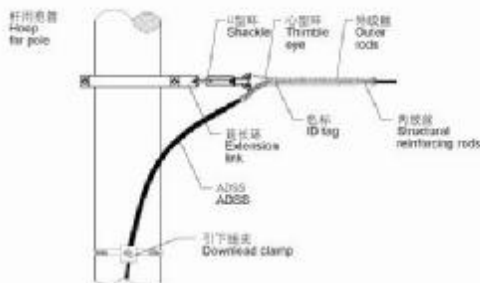
ADSS光缆耐张线夹在耐张塔上的安装示意图
Installation Figure Of ADSS Dead-end On Tension Tower



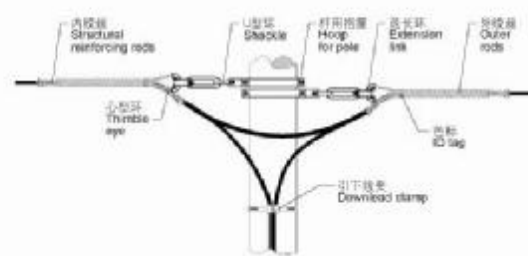
ADSS光缆耐张线夹在接续塔上的安装示意图
Installation Figure Of ADSS Dead-end On Joint Tower



ADSS光缆耐张线夹在接续杆上的安装示意图
Installation Figure Of ADSS Dead-end On Joint Pole



ADSS光缆耐张线夹在终端杆塔上的安装示意图
Installation Figure Of ADSS Dead-end On Terminal Pole



ADSS光缆耐张线夹在耐张杆塔上的安装示意图
Installation Figure Of ADSS Dead-end On Tension Pole

普通耐张线夹 Strain Clamp



B

一般概述

耐张线夹主要用于架空电力线路或变电所固定导线或避雷线，并通过连接金具与绝缘子相连接，或者避雷线与杆塔相联。按结构盒安装方式的不同分为螺栓型、压缩型和楔型三类，压缩型又分液压和爆压两种。

产品型号中字母的数字的意义为：

N—耐张线夹，**L**—螺栓型，**D**—倒装式，**Y**—液压型，**B**—爆压型

数字表示适用导线组号(或适用钢绞线标称截面)。分子表示铝截面，分母表示钢截面|螺栓型耐张线夹的曲率半径不小于被安装导线直径的8倍。耐张线夹导线的最小握力与导线计算拉断力的百分比为90%—95%，对于特大导线截面导线，扩径导线和绝缘线用耐张，握力可取65%。

General Recommendations

Strain clamps are used to fix conductor and ground wire through insulators or link fitting to tower arms or substation structures. In according to the clamp construction and mounting way, the clamps include two types as compression type and bolt type, the compression type include hydraulic and explosive type.

The meaning of letter & Arabic figure in the catalog are shown follow:

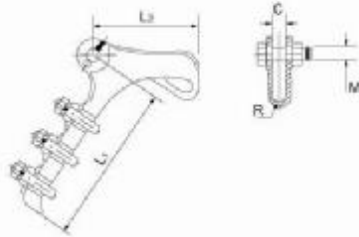
N—strain clamp, **L**—bolt type, **D**—inverse mounting, **Y**—hydraulic type, **B**—explosive type.

The figures mean the of assembled leads which apply to each other numbers.

The radius of curvature is more than eight fold diameter of the suitable conductor, the percentage minimum slip strength if clamp to rated ultimate strength of conductor is shown in the following 90%-95%.

1、耐张线夹(螺栓型)

Strain Clamps (Bolt Type)

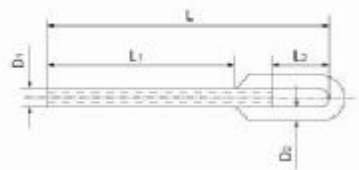


型号 Catalog No.	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)					U型螺帽 U Bolt		额定破坏荷载(KN) Rated Failure Load (KN)	重量 Weight (kg)
		M	C	L ₁	L ₂	L ₃	数量	直径		
NLD-1	5.0-10.0	16	18	150	120	6.5	2	12	20	1.3
NLD-2	10.1-14.0	16	18	205	130	8.0	3	12	40	2.1
NLD-3	14.1-18.0	18	22	310	160	11.0	4	16	70	4.6
NLD-4	18.1-23.1	18	25	410	220	12.5	4	16	100	7.1

线夹本体和压板为可锻铁件，闭口销为不锈钢制件，其余为钢制件，可锻铁件和钢制件热镀锌。
The clamp body and keepers are malleable iron, cotter-pins are stainless steel, the other parts are steel. All ferrous parts are hot-dip galvanized.

2、钢绞线用耐张线夹(液压型)

Strain Clamps For Steel Wire (Hydraulic Compression Type)

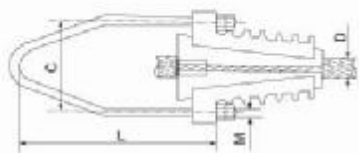


型号 Catalog No.	钢绞线半径 Dia. Of steel wire (mm)	主要尺寸 Dimension (mm)					握力 Sip Strength (kN)	重量 Weight(kg)
		D ₁	D ₂	L ₁	L ₂	L		
NY-35G	7.8	16	16	115	50	210	45	0.6
NY-50G	9.0	18	16	130	55	230	60	0.7
NY-55G	9.6	20	16	140	55	250	65	0.9
NY-60G	10.0	20	16	135	100	280	73	1.2
NY-70G	11.0	22	18	155	110	315	88	1.3
NY-100G	13.0	26	20	185	130	365	123	1.7
NY-120G	14.0	28	22	195	70	325	143	1.9
NY-135G	15.0	30	22	215	80	365	164	2.4
NY-150G	16.0	32	24	230	90	390	187	2.8

热镀锌钢件。
Hot-dip galvanized steel.

3、绝缘导线用耐张线夹

Strain Clamps For Insulated Conductor



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)				握力 Sip Strength (kN)	重量 Weight(kg)
		C	M	D	L		
NX-1	JKLYJ-240	128	12	27	140-240	22.5	2.0
	JKLYJ-185					17.3	
NX-2	JKLYJ-150	128	12	23	140-240	13.6	2.0
	JKLYJ-120					11.3	
NX-3	JKLYJ-95	108	12	18	140-220	8.9	1.6
	JKLYJ-70					6.7	
NX-4	JKLYJ-50	108	12	18	140-220	4.6	1.6
NX-5	JKLYJ-35	92	10	12	160-220	3.4	1.0

线夹本体为铝合金制件，线夹芯为塑料制件，其余为热镀锌钢制件。
The clamp body is aluminium alloy, the clamp core is plastic, the other parts are hot-dip galvanized.

4. 钢芯铝绞线用耐张线夹(液压型)

Strain Clamps For ACSR (Hydraulic Compression Type)

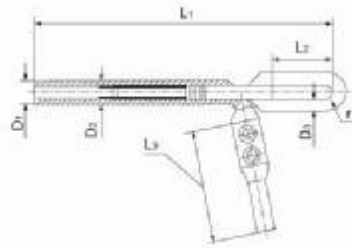


图1 Fig1

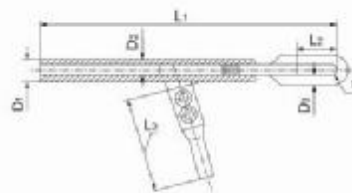


图2 Fig2

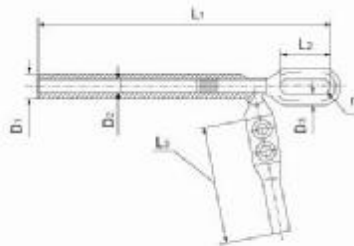
型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)							握力 Slip Strength (kN)	图号 Fig No.	重量 Weight (kg)
		D ₁	D ₂	D ₃	L ₁	L ₂	r	L ₃			
NY-50/30	LGJ-50/30	32	16	16	430	60	8.5	170	41	1	1.4
NY-60/35	LGJ-60/35	32	16	16	450	60	8.5	170	46	1	1.6
NY-70/40	LGJ-70/40	32	16	16	450	50	8.5	170	55	1	2.1
NY-95/55	LGJ-95/55	34	22	18	416	50	11.0	220	74	1	2.4
NY-95/140	LGJ-95/140	45	30	24	615	80	15.0	245	163	1	5.8
NY-150/20	LGJ-150/20	30	14	16	410	55	8.0	210	44	1	1.8
NY-150/35	LGJ-150/35	30	16	16	475	55	9.0	210	61	1	2.0
NY-185/30	LGJ-185/30	34	16	16	470	55	9.0	220	62	1	2.5
NY-185/45	LGJ-185/45	34	18	16	495	70	10.0	230	76	1	2.6
NY-240/30	LGJ-240/30	36	16	18	500	55	10.0	240	72	1	2.9
NY-240/40	LGJ-240/40	36	16	18	515	55	10.0	240	79	1	3.1
NY-240/55	LGJ-240/55	36	20	18	535	55	11.0	250	97	1	3.2
NY-300/15	LGJ-300/15	40	14	16	490	50	11.0	265	65	1	3.6
NY-300/20	LGJ-300/20	40	14	18	505	50	11.0	265	72	1	3.6
NY-300/25	LGJ-300/25	40	14	18	515	55	11.0	265	79	1	3.5
NY-300/40	LGJ-300/40	40	16	18	535	55	11.0	265	88	1	3.5
NY-300/50	LGJ-300/50	40	18	18	560	65	12.0	265	98	1	3.9
NY-300/70	LGJ-300/70	42	22	20	600	70	12.0	265	122	1	4.5
NY-400/20	LGJ-400/20	45	14	18	540	55	13.0	280	84	1	4.3
NY-400/25	LGJ-400/25	45	14	18	550	55	13.0	280	91	1	4.3
NY-400/35	LGJ-400/35	45	16	20	580	65	13.0	280	99	1	4.6
NY-400/50	LGJ-400/50	45	20	20	590	65	13.0	280	117	1	4.8
NY-400/65	LGJ-400/65	48	22	22	620	70	13.0	280	123	1	5.4
NY-400/95	LGJ-400/95	48	26	26	670	80	15.0	280	163	1	7.1
NY-500/35	LGJ-500/35	52	16	20	620	65	14.0	245	114	2	6.0
NY-500/45	LGJ-500/45	52	18	20	625	70	14.0	245	122	2	5.5
NY-500/65	LGJ-500/65	52	22	22	660	70	15.0	245	146	2	6.6
NY-630/45	LGJ-630/45	60	18	22	660	70	16.0	290	141	2	7.7
NY-630/55	LGJ-630/55	60	20	22	660	70	16.0	290	156	2	7.9
NY-630/80	LGJ-630/80	60	24	26	715	80	17.0	290	183	2	9.1
NY-800/55	LGJ-800/55	65	20	26	745	80	19.0	335	182	2	10.5
NY-800/70	LGJ-800/70	65	22	26	745	85	19.0	335	197	2	10.6
NY-800/100	LGJ-800/100	65	26	30	780	85	19.0	335	229	2	12.1

线夹本体和引流线夹为铝制品，其余为热镀锌钢制作。如引流线夹为30°，则型号后加B
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.



5、耐张线夹(液压型、钢锚锻制)

Strain Clamps (Hydraulic Compression Type, Anchor Forged)

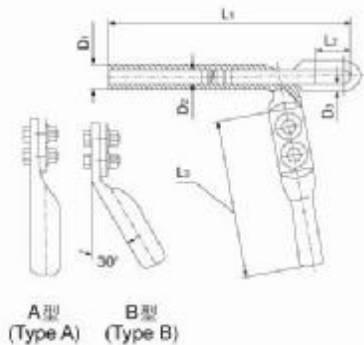


型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)							握力 Slip Strength (kN)	重量 Weight (kg)
		D1	D2	D3	L1	L2	F	L3		
NY-240/30.1	LGJ-240/30	36	16	18	490	65	10	240	72	2.9
NY-240/40.1	LGJ-240/40	36	16	18	490	65	10	240	79	3.0
NY-240/55.1	LGJ-240/55	36	20	18	520	65	10	250	97	3.2
NY-300/15.1	LGJ-300/15	40	14	16	491	61	11	265	65	3.6
NY-300/20.1	LGJ-300/20	40	14	18	497	67	11	265	72	3.6
NY-300/25.1	LGJ-300/25	40	14	18	502	67	11	265	79	3.6
NY-300/40.1	LGJ-300/40	40	16	18	522	67	11	265	88	3.5
NY-300/50.1	LGJ-300/50	40	18	18	542	77	12	265	98	3.9
NY-300/70.1	LGJ-300/70	42	22	20	577	82	12	265	122	4.5
NY-400/20.1	LGJ-400/20	45	14	18	528	68	13	280	84	4.3
NY-400/25.1	LGJ-400/25	45	14	18	538	68	13	280	91	4.3
NY-400/35.1	LGJ-400/35	45	16	20	563	78	13	280	99	4.6
NY-400/50.1	LGJ-400/50	45	20	20	573	78	13	280	117	4.7
NY-400/65.1	LGJ-400/65	48	22	22	598	83	13	280	123	5.4
NY-400/95.1	LGJ-400/95	48	26	26	650	95	15	280	163	7.1

线夹本体和引流线夹为铝制品，其余为热镀锌钢制品。如引流线夹为30°，则型号后加B。
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

6、耐张线夹(爆压型)

Strain Clamps (Explosive Compression Type)

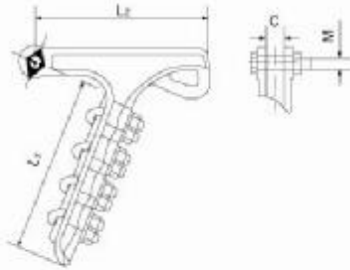


型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)							握力 Slip Strength (kN)	重量 Weight (kg)
		D1	D2	D3	L1	L2	L3			
NB-185/30	LGJ-185/30	34	18	16	420	55	255	61	2.4	
NB-240/40	LGJ-240/40	38	22	18	410	55	240	79	2.6	
NB-300/25	LGJ-300/25	40	22	16	440	60	255	80	2.7	
NB-300/40A	LGJ-300/40	40	22	18	420	55	265	88	3.0	
NB-300/40B										
NB-300/50A	LGJ-300/50	40	24	18	465	65	265	98	3.2	
NB-300/50B										
NB-400/50A	LGJ-400/50	45	24	20	470	70	280	117	3.8	
NB-400/50B										
NB-400/65A	LGJ-400/65	48	26	20	500	75	280	128	4.2	
NB-400/65B										
NB-300/70A	LGJ-300/70	42	24	20	485	70	265	122	3.5	
NB-300/70B										
NB-400/95A	LGJ-400/95	48	28	22	535	80	280	163	5.1	
NB-400/95B										

线夹本体和引流线夹为铝制品，其余为热镀锌钢制品。
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

7. 铝合金耐张线夹(螺栓型)

Aluminium Alloy Strain Clamps (Bolt type)



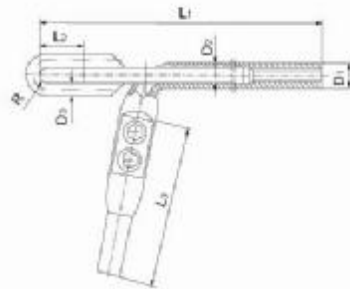
型号 Catalog No	适用导线范围 Conductor Dia (mm)	主要尺寸 Dimension (mm)				U型螺栓数量 U Bolt Qty (pc)	标称破坏载荷 (KN) Rated Failure Load(KN)	重量 Weight (kg)
		M	C	L1	L2			
NLL-1	5.1-11.5	16	19	140	120	2	40	1.0
NLL-2	8.9-18.5	16	24	176	187	2	40	1.6
NLL-3	5.0-15.0	16	18	310	160	3	70	1.9
NLL-4	12.1-21.8	16	30	298	284	4	90	4.1
NLL-5	18.0-30.0	22	36	446	342	5	120	7.0
NLL-6	27.0-38.0	22	44	560	360	6	120	8.1

线夹本体和盖板为铝合金制件，闭口销为不锈钢制件，其余为热镀锌钢制件。
The clamp body and keepers are aluminum alloy, the cotter-pin is stainless steel, the other parts are hot-dip galvanized steel.



8. 铝包钢绞线用耐张线夹(液压型)

Strain Clamps For Aluminum Covered Steel Wire (Hydraulic Compression Type)

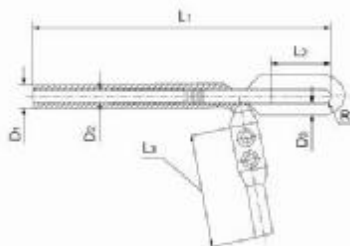


型号 Catalog No	适用导线直径 Suitable Conductor	主要尺寸 Dimension (mm)							握力 Grip Strength (kN)	重量 Weight (kg)
		D1	D2	D3	L1	L2	L3	R		
NY-50BG	LB20J-50	32	18	16	330	64	195	10	55.8	1.8
NY-55BG	JLB20A-55DE	32	20	16	385	65	215	10	64.6	1.8
NY-70BG	JLB4-70	32	20	16	380	50	185	10	65.8	1.7
NY-80BG	LB20J-80	36	24	18	357	67	225	12	85.0	2.5
NY-90BG	JLB30-95	36	24	18	490	65	225	12	71.0	2.7
NY-120BG	JLB3-120	36	26	20	375	83	215	13	91.2	2.7
NY-150BG	LB40J-150	42	26	18	403	73	190	13	90.6	2.6
NY-150-1BG	LB20J-150	45	32	30	556	126	280	16	167.0	7.3
NY-240BG	LB27J-240	50	36	30	585	110	280	18	221.3	7.8
NY-35BG-27	JLB2-35	28	15	12	320	60	190	9	35.3	1.3
NY-70BG-20	LB20J-70	34	24	18	400	65	185	11	80.5	2.0
NY-90BG-27	JLB2-90	36	24	20	445	78	220	13	92.7	2.6
NY-120BG-30	JLB3-120	36	26	20	375	83	215	13	91.2	2.7
NY-120BG-40	JLB4-120	36	24	18	450	60	235	12	70.5	2.6
NY-150BG-40	JLB4-150	38	26	18	470	65	255	13	86.1	3.2
NY-185BG-20	JLB20A-185	48	34	26	584	100	280	17	198.5	6.9

线夹本体和引流线夹为铝制件，其余为热镀锌钢制件。
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

9. 铝合金绞线用耐张线夹(液压型)

Strain Clamps For AAC (Hydraulic Compression Type)



型号 Catalog No	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)							握力 Grip Strength (kN)	重量 Weight (kg)
		D1	D2	D3	R	L1	L2	L3		
NY-120H	LHAJ-120	30	16	12	9	445	50	210	32.0	1.6
NY-185H	LHAJ-185	40	19	16	9	480	55	255	53.0	2.8
NY-300H	LHAJ-300	48	24	18	11	600	70	280	79.5	4.5

线夹本体和引流线夹为铝制件，其余为热镀锌钢制件。
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

10、铝包钢芯铝绞线用耐张线夹(液压型)

Strain Clamps For ACSR/AS Conductor(Hydraulic Compression Type)

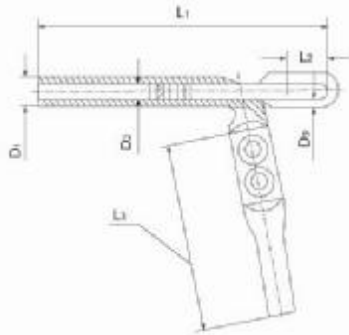


图1 Fig1

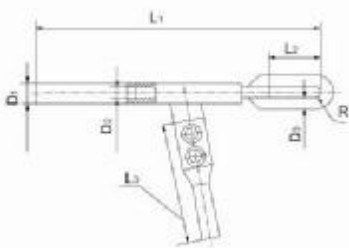


图2 Fig2

型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)							高径 Fig No.	握力 Silo Strength (kN)	重量 Weight (kg)
		D1	D2	D3	R	L1	L2	L3			
NY-50/30BG	JK/JB14-50/30	32	16	16	10	465	65	215	1	13.3	2.1
NY-80/47BG	ACSR/AS-80/47	36	18	16	10	475	70	230	1	64.6	3.1
NY-95/55BG	LLBJ-95/55	36	20	18	11	486	61	230	1	74.0	3.0
NY-120/70BG	JL/LB20A-120/70	36	22	20	13	550	70	240	1	96.0	3.6
NY-185/30BG	ACSR/AS-185/30	36	16	16	9	540	55	220	1	62.9	2.9
NY-185/45BG	LLBJ-185/45	36	18	18	11	580	65	265	1	78.8	3.2
NY-240/30BG	ACSR/AS-240/30	38	18	18	11	550	55	240	1	73.7	3.2
NY-240/40BG	ACSR/AS-240/40	38	18	18	12	595	65	240	1	81.6	3.3
NY-300/25BG	LLBJ-300/25	42	14	18	11	560	55	265	1	74.4	3.6
NY-300/40BG	ACSR/AS-300/40	42	18	18	13	645	70	265	1	90.0	3.8
NY-300/50BG	ACSR/AS-300/50	42	18	18	13	620	70	265	1	101.0	4.1
NY-300/70BG	LLBJ-300/70	42	22	20	13	625	70	265	1	117.8	4.4
NY-400/35BG	LLBJ-400/35	48	18	20	13	635	65	280	1	99.0	5.2
NY-400/50BG	LLBJ-400/50	48	20	20	13	645	65	280	1	117.0	5.2
NY-500/45BG	ACSR/AS-500/45	56	20	20	14	650	70	245	2	124.0	5.2
NY-630/45BG	ACSR/AS-630/45	60	20	22	16	695	75	290	2	144.0	7.8
NY-70/40BG-20	JL/LB20A-70/40	34	16	16	10	495	65	180	1	37.8	2.2
NY-100BG-20	LBGJ-100	38	26	20	12	455	75	220	1	115.58	2.9
NY-300/25BG-20	JL/LB20A-300/25	42	16	18	11	560	55	265	1	80.4	3.3

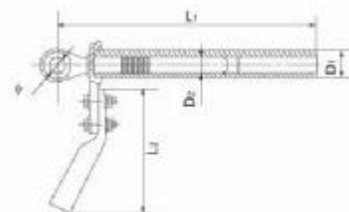
线夹本体和引流线夹为铝制件，其余为热镀锌钢制作。

The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

11、耐热铝合金绞线用张力线夹(液压型)

Strain Clamps For Heat-Resistant ACSR Conductor(Hydraulic Compression Type)

11-1



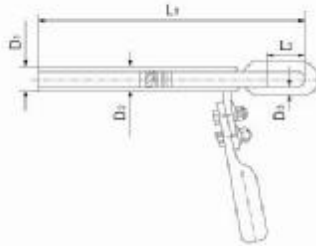
型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)					握力 Silo Strength (kN)	重量 Weight (kg)
		D1	D2	D3	L1	L2		
NY-530N	KTACSR/EST-530	70	37	45	950	420	467	17.2
NY-610N	KTACSR/EST-610	76	48	45	1115	420	532	26.2
NY-720N	KTACSR/EST-720	76	42	45	1022	410	600	20.0

线夹本体和引流线夹为铝制件，其余为热镀锌钢制作。

The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

B

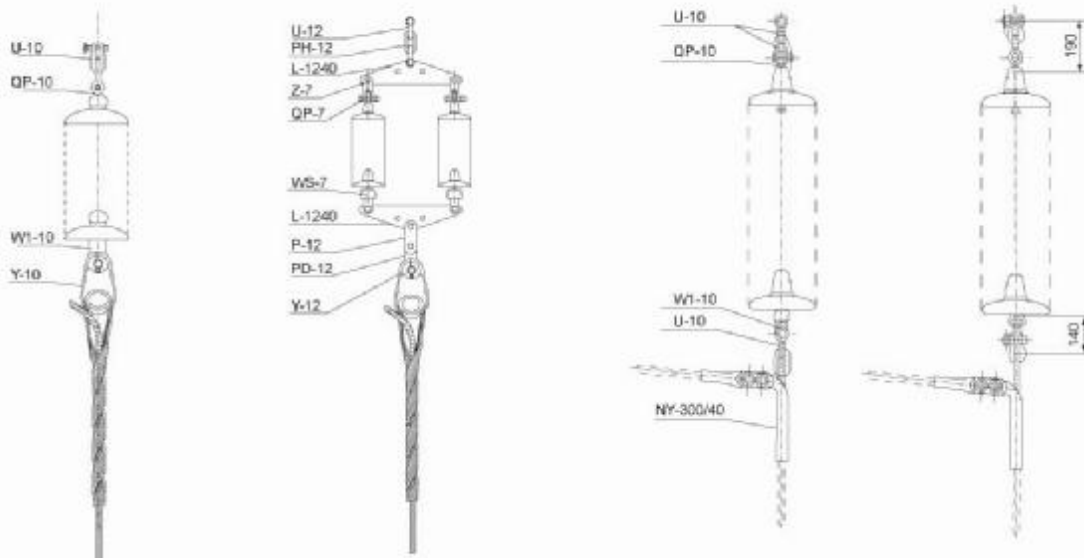
11-2



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)						握力 Slip Strength (kN)	重量 Weight (kg)
		D ₁	D ₂	D ₃	L ₁	L ₂	R		
NY-185/30N	NRLH ₆₀ GJ-185/30	36	16	16	545	55	10	63.0	2.6
NY-210/10N	NRLH ₆₀ GJ-210/10	45	14	18	520	55	10	68.9	4.0
NY-240/30N	NRLH ₆₀ GJ-240/30	45	18	18	545	55	10	68.0	4.4
NY-240/40N	NRLH ₆₀ GJ-240/40	45	16	18	610	70	10.5	65.0	4.4
NY-300/25N	NRLH ₆₀ GJ-300/250	50	16	18	633	65	11	75.8	6.0
NY-300/40N	NRLH ₆₀ GJ-300/40	50	18	18	575	65	12	85.4	6.5
NY-300/50N	NRLH ₆₀ GJ-300/50	50	18	18	575	65	12	96.0	6.5
NY-400/25N	NRLH ₆₀ GJ-400/25	55	16	18	575	60	13	82.0	6.8
NY-400/35N	NRLH ₆₀ GJ-400/35	55	18	20	605	65	13.5	93.6	7.2
NY-400/50N	NRLH ₆₀ GJ-400/50	55	20	20	635	65	13.5	102.0	7.6
NY-500/35N	NRLH ₆₀ GJ-500/35	65	20	20	728	70	14	103	11.2
NY-500/45N	NRLH ₆₀ GJ-500/45	65	20	20	615	70	14	117.1	8.1
NY-630/45N	NRLH ₆₀ GJ-630/45	70	20	22	770	70	16	133.6	8.6

线夹本体和引流线夹为铝制件。
The clamp body and jumper clamp are aluminium, the other are hot-dip galvanized steel.

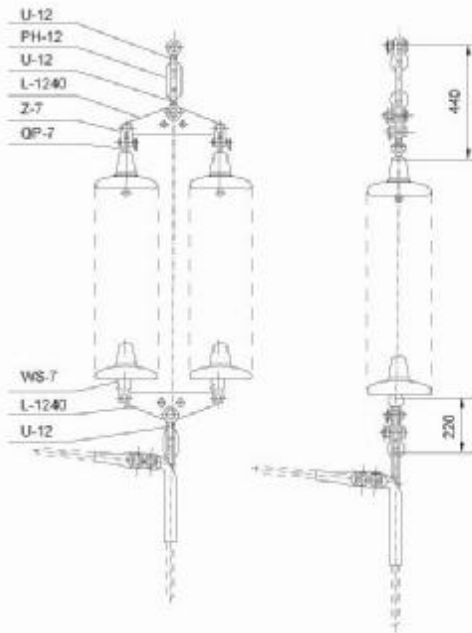
耐张串安装组图 Assembling Diagram For Strain Clamp With Stand Bunch Serial Installation



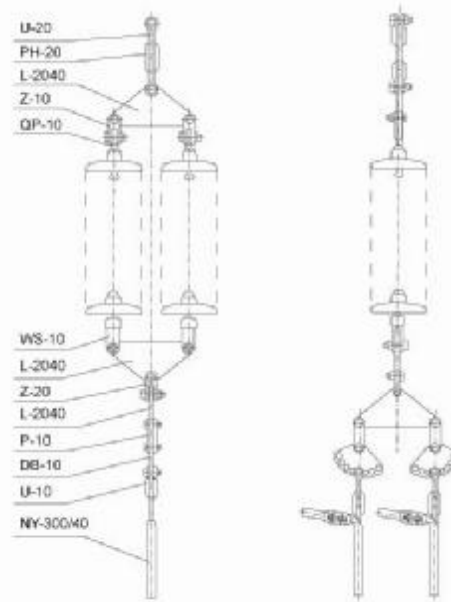
单/双联单导线耐张串(预绞式耐张线夹)
Single/Double Tension String for One Conductor
(Preformed Dead-end Clamp)

单导线单联耐张串
Single Tension String for One Conductor

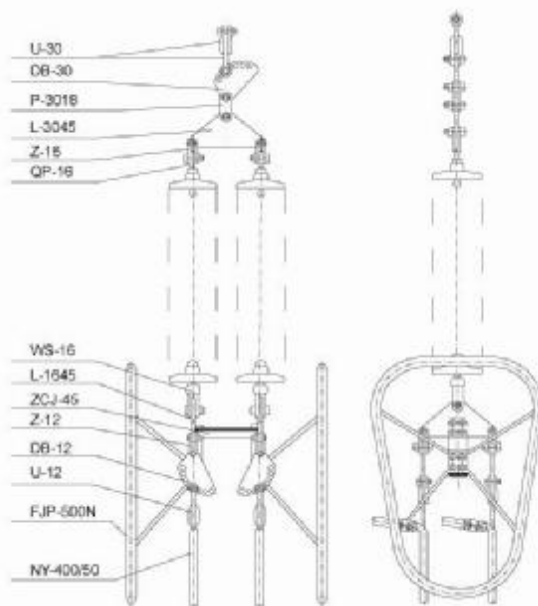
B



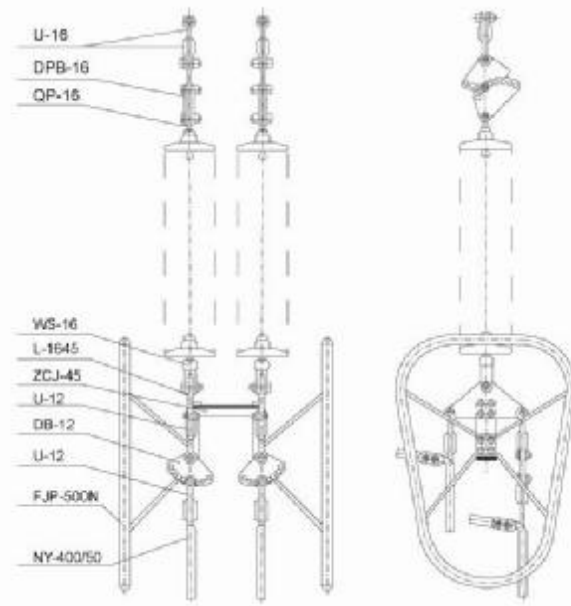
单导线双联耐张串
Double Tension Strings for One Conductor



双分裂导线双联耐张串
Double Tension Strings for Two-Bundle Conductor



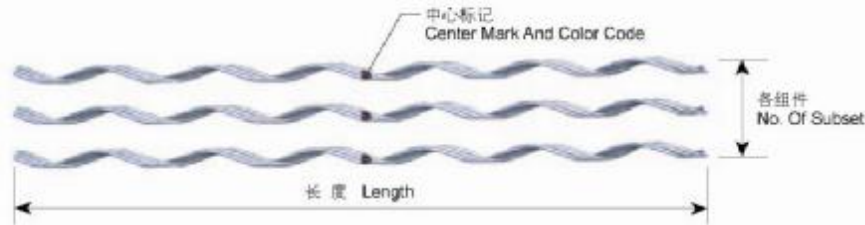
四分裂导线双联耐张串
Double Tension Strings for Four-Bundle Conductor



四分裂导线双联双挂点耐张串
Double Hanging-point Double Strain Strings for Four-Bundle Conductor

接续金具 Splicing Fitting

预绞式接续条 Preformed Splice Rod for Conductor



一般概述

预绞式接续条可以分为普通接续条、钢芯铝绞线接续条(全张力接续条)、跳线接续条等。其中全张力接续条由内层钢芯接续条、填充条和外层接续条组成。主要用于钢芯铝绞线的断线接续、破损线的修复等。与目前普通的接续管、爆压管相比,具有接续质量好,易于安装,不影响导线原有的机械性能、电气性能等特点。

产品特点

合理的结构,使得预绞式护线条在导线的接续的机械性能方面,接续条可完全恢复导线的机械强度,即可达到原导线的计算拉断力。

优质的材质,保证良好的抗腐蚀性性能。

用于导线的预绞式接续条,其内层磨砂具有良好的导电性能,因而接续后导线的流通能力不受影响。在实际运行中由于拉伸的作用,导电性能会越来越越好。

安装迅速、简便、方便。

须知

1. 产品为具有特殊功能的一次性产品,使用时不可改变本产品。

2. 带电线路或附件工作时,应注意安全,以防触电事故,在安装本产品前应根据线路的导线规格选择合适的耐张线夹,保证安装的良好性能。

General Recommendations

Preformed splice rods can be classified as ordinary splice rods, steel core aluminum strand wire splice rod (full tension splice rod) and patch cord splice rod, etc. The full tension splice rod is composed of inner steel core splice rod, filling rod and outer splice rod. Preformed splice rod is mainly applied to splice the broken steel core aluminum strand wires and repair the damaged wires. Compared with the common splicing sleeves and detonation pressure sleeves, it has good splicing quality and no effect on the original mechanical and electrical performance of conductors and it's easy for installation.

Product Characteristics

Due to reasonable structure, splice rod can completely restore the conductor's mechanical strength in the aspect of conductor splicing mechanical performance, that is to say, reach the calculated breaking tensile strength of the original conductor.

High-quality materials ensure good anticorrosion property.

The inner dull polish of preformed splice rod for conductors has good electric conduction performance so the circulation ability of conductors won't be affected after splicing. During practical operation, the electric conduction performance will become better and better due to the tensile strength function.

Prompt, easy and convenient installation.

Safety Consideration

1. Because this product has special function and it can be used only once, it can't be changed during application.

2. Be careful during working on or near live line to prevent electric shock. Select suitable dead-end clamp according to the line's conductor specification before installation to ensure good performance of installation.



3. 本产品仅由经过培训的熟练工人操作，未经过培训的人员均不得进行操作。

4. 该线夹的旋向应保持一致。标准的耐张线夹一般是右旋，如需要左旋耐张线夹，请事先预定。

5. 所有导线，无论是否适用过，在安装接续条之前必须将导线彻底打磨，驱除表面的氧化层，直至露出光泽。在安装前必须用质量较好的，与导线匹配的导电油脂涂抹在导线的表层。

3. This product can be only operated by trained and skilled worker. Untrained person is forbidden to do operation.

4. The revolving directions of the clamps shall be kept consistent. Generally, the standard dead-end clamp adopts right rotation. Please order in advance if you require left rotation.

5. All the conductors, whatever used or not, should be thoroughly polished to eliminate the external oxide coating till the burnishing surface is exposed before installation of splice rod. Before installation, conductive grease which has good quality and matches to conductors must be daubed on the surface of conductors.



铝绞线用预绞式接续条

Parameters Table Of Preformed Splice Rod For Conductor (Aluminum Strand Wire)

线夹型号 Type Of Clamp	导线截面 Section Of Conductor (mm ²)	导线外径 Outer Diameters Of Conductor (mm)	线夹参考长度L Reference Length Of Clamp L (mm)	线夹线径 Diameter Of Clamp (mm)	线夹重量 Weight Of Clamp (kg)
JL-95/L	95	12.48	1200	3.70	0.40
JL-120/L	120	14.25	1350	4.20	0.60
JL-150/L	150	15.75	1700	4.60	1.10
JL-185/L	185	17.50	1700	5.20	1.20
JL-210/L	210	18.75	2000	6.40	1.90
JL-240/L	240	20.00	2100	6.40	2.20
JL-300/L	300	22.40	2550	6.40	2.80
JL-400/L	400	25.90	3100	7.90	4.80
JL-500/L	500	29.12	3600	9.30	7.80
JL-630/L	630	32.67	3800	9.30	8.90
JL-800/L	800	36.90	4400	11.10	13.60

注：1. 型号中文字与数字的意义：J—接续条，L—螺旋预绞式，“—”后为适用导线型号；L—铝绞线（GB/T1179-1983），铝线全部受损，钢芯未破坏的钢芯铝绞线接续参照此表选用。

Note: 1. The meaning of letters and numbers in the type: J-Splice rod, L-Spiral preformed type; the expression after "-" is the applicable type of conductors; L-Aluminum strand wire (GB/T1179-1983); this table is applicable to the splicing of steelcore aluminum strand wire whose aluminum wires are all damaged but the steel core remains good.

钢芯铝绞线用预绞式接续条

Preformed Splice Rod For Conductor ACSR

型号 Type	适用导线直径范围 Diameter Range Of Applicable Conductor	导线类型GB 1179-83 钢芯铝绞线LGJ/LGJF Type Of Conductor GB 1179-83 Steel Core Aluminum Strand Wire LGJ/LGJF(mm)	线夹长度 Length Of Clamp	线夹的重量 Weight Of Clamp (Kg)
JL-10/2	4.50	10/2	530	0.05
JL-16/3	5.55	16/3	580	0.05
JL-25/4	6.96	25/4	690	0.10
JL-35/6	8.16	35/6	790	0.15
JL-50/8	9.60	50/8	970	0.26
JL-50/30	11.40	50/30	1100	0.35
JL-70/10	11.60	70/10		
JL-70/40	13.60	70/40	1300	0.60
JL-95/15	13.61	95/15		
JL-90/20	13.87	90/20	1320	0.60
JL-120/7	14.50	120/7	1550	0.88
JL-120/20	15.07	120/20		
JL-95/55	16.00	95/55		
JL-120/25	15.74	120/55	1700	1.02
JL-150/8	16.00	150/8		
JL-150/20	16.67	150/20	1750	1.20
JL-150/25	17.10	150/25	1780	1.25
JL-150/35	17.50	150/35		
JL-120/70	18.00	120/70	1960	1.90
JL-185/10	18.00	185/10		
JL-185/25	18.90	185/25		
JL-185/30	18.88	185/30	2010	1.95
JL-210/10	19.00	210/10		
JL-185/45	19.60	185/40	2130	2.15
JL-210/25	19.98	210/25		
JL-240/30	21.60	240/30	2180	2.18
JL-240/40	21.66	240/40	2520	2.80
JL-240/55	22.40	240/55		
JL-300/15	23.01	300/15	2670	3.75
JL-300/20	23.43	300/20		
JL-300/25		300/25		
JL-300/40	23.76	300/40	2740	4.20
JL-300/50	23.96	300/50		
JL-300/70	19.00	300/70	2820	4.42
JL-400/25	19.60	400/25	3070	4.80
JL-400/35		400/35		
JL-400/50	19.98	400/50	3250	5.40
JL-400/95		400/95		
JL-500/35	20.38	500/35	3480	7.44
JL-500/45		500/45		

本表格只列出部分产品。其他产品请与本公司联系！

This table only lists a part of products. If products of other types are required, please contact our company.

钢芯铝绞线/铝绞线用预绞式跳线接续条

Jumper Preformed Splice Rod For ACSR/AC

型号 Type	适用导线直径范围 Diameter Range Of Applicable Conductor	导线类型GB 1179-83 钢芯铝绞线LGJ/LGJF Type Of Conductor GB 1179-83 Steel Core Aluminum Strand Wire LGJ/LGJF(mm)	适用铝绞线规格 Specification Of Applicable Aluminum Strand Wire	线夹长度 Length Of Clamp	线夹的重量 Weight Of Clamp (Kg)
TJL-10/2	4.50-4.70	10/2		530	0.05
TJL-16/3	5.30-5.60	16/3		580	0.05
TJL-25/4	6.80-7.20	25/4		690	0.10
TJL-35/6	7.90-8.30	35/6		470	0.09
TJL-50/LJ	8.90-9.35		50	500	0.09
TJL-50/8	9.30-9.70	50/8		560	0.15
TJL-70/LJ	10.50-10.80		70	600	0.15
TJL-50/30	11.20-11.80	50/30		640	0.20
TJL-70/10		70/10			
TJL-95/LJ	12.20-12.80		95	700	0.25
TJL-70/40	13.20-13.90	70/40		760	0.28
TJL-95/15		95/15			
TJL-90/20	13.90-14.40	90/20	120	790	0.37
TJL-120/7	14.41-15.09	120/7		830	0.47
TJL-120/20		120/20			
TJL-95/55		95/55			
TJL-120/25	15.70-16.40	120/25	150	920	0.55
TJL-150/8		150/8			
TJL-150/20	16.30-17.05	150/20		940	0.64
TJL-150/25	17.05-17.80	150/25	185	970	0.67
TJL-150/35		150/35			
TJL-120/70	17.81-18.50	120/70		1060	1.0
TJL-185/10		185/10			
TJL-185/25		185/25			
TJL-185/30	18.51-19.30	185/30	210	1080	1.05
TJL-210/10		210/10			
TJL-185/40	19.31-20.15	185/40	240	1140	1.21
TJL-210/25		210/25			
TJL-240/30	20.95-21.60	240/30		1180	1.19
TJL-240/40	21.61-22.50	240/40	300	1250	1.40
TJL-240/55		240/55			
TJL-300/15	22.51-23.60	300/15		1350	1.90
TJL-300/20		300/20			
TJL-300/25		300/25			
TJL-300/40	23.61-24.60	300/40		1450	2.09
TJL-300/50		300/50			
TJL-300/70	24.61-25.60	300/70		1410	2.2
TJL-400/25	25.61-26.67	400/25	400	1420	2.2
TJL-400/35		400/35			
TJL-400/50	26.70-27.70	400/50		1590	3.50
TJL-400/95		400/95			
TJL-500/35	27.72-30.05	500/35	500	1660	3.60
TJL-500/45		500/45			

本表格只列出部分产品。其他产品请与本公司联系！

This table only lists a part of products. If products of other types are required, please contact our company.

预绞式全张力接续条 Preformed Full Tension Splice Rod for Conductor



一般概述

预绞式全张力接续条由内层钢芯接续条、填充条和外层接续条组成。主要用于钢芯铝绞线的断线接续、破损线的修复等。与目前普通的接续管、爆压管相比，具有接续质量好，易于安装，不影响导线原有的机械性能、电气性能等特点。

General Recommendations

Preformed full tension splice rod is composed of inner layer steel core splice rod, filling rod and outer layer splice rod. It is mainly applied to splice the broken steel core aluminum strand wires and repair the damaged wires. Compared with the common splice eaves and detonation pressure sleeves, it has good splicing quality and no effect on the original mechanical and electrical performance of conductors and it's easy for installation.

产品特点

合理的结构，使得预绞式护线条在导线的接续的机械性能方面，接续条可完全恢复导线的机械强度，即可达到原导线的计算拉断力。

优质的材质，保证良好的抗腐蚀性。

用于导线的预绞式接续条，其内层磨砂具有良好的导电性能，因而接续后导线的流通能力不受影响。在实际运行中由于拉伸的作用，导电性能会越来越越好。

安装迅速、简便、方便。

Product Characteristics

Due to reasonable structure, splice rod can completely restore the conductor's mechanical strength in the aspect of conductor splicing mechanical performance, that is to say, reach the calculated breaking tensile strength of the original conductor;

High-quality materials ensure good anticorrosion property;

The inner dull polish of preformed splice rod for conductors has good electric conduction performance so the circulation ability of conductors won't be affected after splicing. During practical operation, the electric conduction performance will become better and better due to the tensile strength function;

Prompt, easy and convenient installation.

安全须知

1. 产品为具有特殊功能的一次性产品，使用时不可改变本产品；

2. 带电线路或附件工作时，应注意安全，以防触电事故，在安装本产品前应根据线路的导线规格选择合适的耐张线夹，保证安装的良好性能；

3. 本产品仅由经过培训的熟练工人操作，未经过培训的人员均不得进行操作。

4. 该线夹的旋向应保持一致。标准的耐张线夹一般是右旋，如需要左旋耐张线夹，请事先预定。

5. 所有导线，无论是否通用过，在安装接续条之前必须将导线彻底打磨，驱除表面的氧化层，直至露出光泽。在安装前必须用质量较好的，与导线匹配的导电油脂涂抹在导线的表层。

Safety Consideration

1. Because this product has special function and it can be used only once, it can't be changed during application;

2. Be careful during working on or near live line to prevent electric shock. Select suitable dead-end clamp according to the line's conductor specification before installation to ensure good performance of installation;

3. This product can be only operated by trained and skilled worker. Untrained person is forbidden to do operation;

4. The revolving directions of the clamps shall be kept consistent. Generally, the standard dead-end clamp adopts right rotation. Please order in advance if you require left rotation.

5. All the conductors, whatever used or not, should be thoroughly polished to eliminate the external oxide coating till the burnishing surface is exposed before installation of splice rod. Before installation, conductive grease which has good quality and matches to conductors must be daubed on the surface of conductors.

钢芯铝绞线用全张力接续条

Full Tension Splice Rod For Steel Core Aluminum Strand Wire

型号 Type	导线类型 Type Of Conductor	长度 钢芯/填充条/外层 Length Steel Core/Filling Rod/ Outer Layer	挽夹重量 钢芯/填充条/外层 Weight Of Clamp Steel Core/Filling Rod/Outer Layer
ZJL-50/8	LGJ-50/8	508/无/1372	0.20/无/0.30
ZJL-70/10	LGJ-70/10	406/406/1499	0.10/0.10/0.60
ZJL-95/15	LGJ-95/15	508/508/1905	0.10/0.10/0.90
ZJL-95/20	LGJ-95/20	508/508/1727	0.10/0.10/0.80
ZJL-95/0	LJ-95	737/737/1880	0.10/0.10/0.80
ZJL-120/20	LGJ-120/20	508/508/2057	0.10/0.10/1.10
ZJL-120/0	LJ-120	610/610/2210	0.20/0.10/1.20
ZJL-150/0	LJ-150	635/635/2387	0.20/0.10/1.60
ZJL-150/20	LGJ-150/20	508/508/2261	0.10/0.10/1.50
ZJL-150/25	LGJ-150/25	635/635/2413	0.20/0.10/1.60
ZJL-150/35	LGJ-150/35	686/686/2465	0.30/0.10/1.60
ZJL-185/30	LGJ-185/30	660/660/2667	0.20/0.20/2.40
ZJL-185/25	LGJ-185/25	635/635/2642	0.20/0.20/2.40
ZJL-185/0	LJ-185	686/686/2692	0.30/0.20/2.50
ZJL-210/25	LGJ-210/25	635/635/2743	0.20/0.30/2.80
ZJL-240/0	LGJ-240/0	787/787/3226	0.50/0.30/4.50
ZJL-240/30	LGJ-240/30	686/686/3073	0.30/0.0.30/3.70
ZJL-240/40	LGJ-240/40	737/737/3073	0.30/0.30/3.40
ZJL-240/0	LJ-240	658/658/3124	0.30/0.30/3.80
ZJL-300(1)	LJQ-300	711/711/3404	0.30/0.40/5.20
ZJL-300/25	LGJ-300/25	635/635/3759	0.20/0.40/5.80
ZJL-300/40	LGJ-300/40	737/737/3429	0.30/0.40/5.30
ZJL-300/0	LJ-300	1041/1041/3657	0.70/0.60/5.70
ZJL-400/25	LGJ-400/25	635/635/4013	0.20/0.50/7.90
ZJL-400/35	LGJ-400/35	686/686/4242	0.30/0.50/8.00
ZJL-400/50	LGJ-400/50	787/787/4343	0.40/0.60/8.20
ZJL-400/0	LJ-400	1168/1168/4216	0.80/0.80/8.20
ZJL-500/45	LGJ-500/45	787/787/4445	0.50/0.80/11.20
ZJL-500/35	LGJ-500/35	686/686/4445	0.30/0.70/11.20
ZJL-500/65	LGJ-500/65	899/899/4724	0.60/0.90/13.20

注:型号中字母与数字的意义: J—接续条, L—螺旋预绞式; 数字—产品对应导线型号; /0—指适用于GB 1179-74标准的钢芯铝绞线。

Note: The meaning of letters and numbers in the type: J—Splice rod; L—Spiral preformed type; number—type of conductors corresponding to the product; /0—steel core aluminum strand wire applicable to GB 1179-74 standard.

普通接续金具 Tradition Splicing Fitting



JY钢芯铝绞线用接续管
Splicing sleeves for JY aerial
insulation line



JBD, JYD接续管
JBD, JYD splicing sleeve



JYB接续管(爆压)
JYB splicing sleeve (explosive)



JT接续管(带压)
JT splicing sleeve (notch)



JYT跳线线夹
JYT jumper clamp



JBE补修管
JBE repair sleeve



JYT跳线线夹
JYT jumper clamp



JB铝并沟线夹
JB parallel groove clamp



JBB铁并沟线夹
JBB iron parallel groove clamp

一般概述

接续金具主要用于架空电力线路的导线、避雷线的接续和补修。按结构形式和安装方法的不同，分为压缩型、螺栓型和预绞丝各三类；压缩型又分为液压、爆压和钳压三种。

产品型号中字母和数字的意义为：

J-接续，D-搭接，X-补修，B-爆压，并沟、补修、避雷线，T-椭圆，跳线，M-母线，Y-圆形、预绞丝，S-伸缩、设备。

数字表示适用导线的大小：

各种接续金具直流电阻不大于等长导线直流电阻；载流温升低于导线的温升。压缩型接续管对导线的握力不小于导线计算拉断力的95%。

General Recommendations

Splices are used for splicing or repairing of conductor and ground wire of overhead transmission lines. The splices may be compression type, bolt type performed armour rods in accordance with the construction and mounting way. The compressive splices have hydraulic, explosive and notched type.

The meanings of letters Arabic figures in the catalog are shown as follow:

J-splice, D-overlap joing, X-repair, B-explosion, parallel, repair or ground wire, T-oval, jumper, M-bus-bar, Y-round, preformed, S-flexibility, equipment.

The arabic figures show size of conductor:

The DC resistance of all splices must be less than that of the equi-length conductor, the temperature rise of all splices must be less than that of the splicing conductor. The slip strength of the compressive sleeve must be not less than 95% of the rated strength of conductor.



1、接续管(钢绞线用)

Splicing Sleeves For Steel Wire

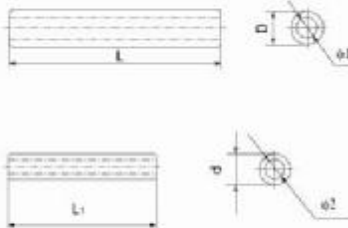


型号 Catalog No.	适用钢绞线 Suitable Steel Wire	主要尺寸 Dimension (mm)			握力 Bip Strength (KN)	重量 Weight(kg)
		D	φ	L		
JY-25G	GJ-25	14	7.2	190	33	0.17
JY-35G	GJ-35	16	8.4	220	45	0.3
JY-50G	GJ-50	18	9.6	240	60	0.4
JY-55G	GJ-55	22	10.3	240	65	0.6
JY-70G	GJ-70	22	11.7	290	88	0.7
JY-80G	GJ-80	24	12.2	290	90	0.8
JY-100G	GJ-100	26	13.7	340	123	1.0
JBD-35G	GJ-35	22	16	110	45	0.2
JBD-50G	GJ-50	25	17	130	60	0.3
JBD-55G	GJ-55	26	18	130	65	0.3
JBD-70G	GJ-70	28	20	150	88	0.4
JBD-80G	GJ-80	29	21	150	90	0.4
JBD-100G	GJ-100	32	23	170	123	0.6

热镀锌钢制件, Hot-dip galvanized steel.

2、接续管(钢芯铝绞线用、爆压搭接)

Splicing Sleeves For ACSR Conductor (Explosive Overlap Joint)



型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)						握力 Bip Strength (KN)	重量 Weight (kg)
		D	φ1	L	L1	d1	φ2		
JYB-70/40	LGJ-70/40	32	22	410	240	20	8.8	55	0.80
JYB-95/55	LGJ-95/55	38	25	430	150	24	19	93.4	0.92
JYB-120/70	LGJ-120/70	36	25.5	340	160	25	19	51	0.92
JYB-150/25	LGJ-150/25	30	18	320	85	26	12	56.5	0.4
JYB-185/25	LGJ-185/25	34	21	380	120	18	11.2	61	0.86
JYB-185/30	LGJ-185/30	32	20	350	100	17.5	13.5	72	0.80
JYB-240/30	LGJ-240/30	36	23.3	430	130	21.2	13.2	79	0.95
JYB-240/40	LGJ-340/40	36	23.5	450	130	21.3	13.3	100	0.97
JYB-240/55	LGJ-240/55	38	24	530	160	22	16.5	72	1.08
JYB-300/20	LGJ-300/20	40	25.0	420	100	14.0	9.80	79	1.07
JYB-300/25	LGJ-300/25	36	25.5	430	110	23.4	18.5	87	1.10
JYB-300/40	LGJ-300/40	40	25.5	430	110	22	17	98	1.00
JYB-300/50	LGJ-300/50	40	26.0	450	120	22	17	122	1.01
JYB-300/70	LGJ-300/70	42	27.0	510	150	24	19	99	1.35
JYB-400/35	LGJ-400/35	45	28.5	530	150	26	15	99	1.74
JYB-400/50	LGJ-400/50	45	29.5	510	130	24	17	117	1.80
JYB-400/65	LGJ-400/65	48	29.5	520	140	26	21	128	1.90
JYB-400/95	LGJ-400/95	48	31.0	550	170	28	22	163	2.10
JYB-500/65	LGJ-500/65	52	32.5	560	140	24	19	146	2.21

外管为铝制件, 内管为热镀锌钢制件。
The outer sleeve is aluminium, the inner sleeve is hot-dip galvanized steel.

3. 接续管(铝绞线用)

Splicing Sleeves For Aluminium Conductor

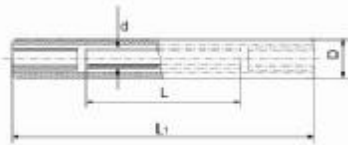


型号 Catalog No.	适用钢绞线 Suitable Steel wire	主要尺寸 Dimension (mm)				握力 Slip Strength < (KN)	重量 Weight (kg)
		D	F	φ	L		
JY-150L	LJ-150	30	20	17.0	280	22	0.4
JY-185L	LJ-185	32	20	19.0	310	27	0.5
JY-210L	LJ-210	34	20	20.0	330	31	0.60
JY-240L	LJ-240	36	20	21.5	350	34	0.7
JY-300L	LJ-300	40	25	24.0	390	45	1.0
JY-400L	LJ-400	45	25	27.5	450	58	1.50
JY-500L	LJ-500	52	30	30.5	510	73	2.00
JY-630L	LJ-630	60	35	34.0	570	87	2.80
JY-800L	LJ-800	65	40	38.5	650	110	3.7

铝制品。
Material is aluminium.

4. 接续管(铝包钢绞线用)

Splicing Sleeves For AS, Conductor (Hydraulic Compression Type)

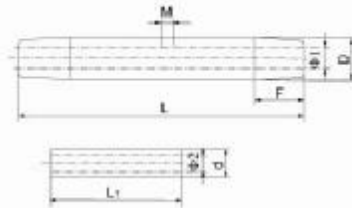


型号 Catalog No.	适用钢绞线 Suitable Conductor	主要尺寸 Dimension (mm)				握力 Slip Strength > (KN)	重量 Weight(g)
		L	Li	D	d		
JY-50BG	JLB1A-50	380	250	30	20	56.7	0.89
JY-70BG	JLB1A-70	440	290	30	22	77	0.86
JY-90BG	JLB2-90	450	305	36	24	97.6	1.4
JY-95BG	JLB4-95	440	300	34	24	58.2	0.84
JY-120BG	JLB4-120	500	350	34	24	74	0.96
JY-150BG	JLB4-150	550	380	36	26	90.6	1.0
JY-185BG	JLB4-185	630	410	38	28	112	1.6

内接续管为热镀锌钢制品,外接续及两端衬管为铝制品。
The inner sleeve is hot-dip galvanized steel, the outer sleeve and lining sleeves are aluminium.

5、接续管(钢芯铝绞线用、液压搭接型)

Splicing Sleeves For ACSR Conductor (Hydraulic Overlap Joint)

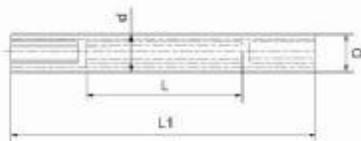


型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)							握力不小于 Grip Strength >KN
		D	d	L	Li	F	φ1	φ2	
JY-240/30	LGI-240/30	36	16	570	170	22	23.0	7.9	70
JY-240/40	LGI-240/40	36	16	590	190	22	23.0	8.7	80
JY-240/50	LGI-240/50	36	20	640	230	22	24.0	10.3	100
JY-300/15	LGI-300/15	40	14	560	120	24	24.5	5.7	65
JY-300/20	LGI-300/20	40	14	580	140	24	25.0	6.5	70
JY-300/25	LGI-300/25	40	14	600	160	24	25.0	7.3	80
JY-300/40	LGI-300/40	40	16	640	190	24	25.5	8.7	90
JY-300/50	LGI-300/50	40	18	660	210	24	26.0	9.6	100
JY-300/70	LGI-300/70	42	22	710	260	25	26.5	11.5	120
JY-400/20	LGI-400/20	45	14	580	140	27	28.5	6.5	85
JY-400/25	LGI-400/25	45	14	660	160	27	28.5	7.3	90
JY-400/35	LGI-400/35	45	16	680	180	27	28.5	8.2	100
JY-400/50	LGI-400/50	45	20	730	220	27	29.5	9.9	120
JY-400/65	LGI-400/65	48	22	760	250	29	29.5	11.0	130
JY-400/95	LGI-400/95	48	16	830	300	29	31.0	13.2	160
JY-500/35	LGI-500/35	52	16	740	180	30	31.5	8.2	110
JY-500/45	LGI-500/45	52	18	760	200	30	31.5	9.1	120
JY-500/65	LGI-500/65	52	22	820	250	30	32.5	11.0	150
JY-630/45	LGI-630/45	60	18	840	200	36	35.5	9.1	140
JY-630/55	LGI-630/55	60	20	880	230	36	36.5	10.3	155
JY-630/80	LGI-630/80	60	24	940	280	36	36.5	12.3	180
JY-800/55	LGI-800/55	65	20	20	230	36	40.0	10.3	180
JY-800/70	LGI-800/70	65	22	22	260	39	40.5	11.5	200
JY-800/100	LGI-800/100	65	26	26	310	39	40.5	13.7	230

内接管为热镀锌钢制件,外接管及两端衬管为铝制件。
The inner sleeve is hot-dip galvanized steel,the outer sleeve and lining sleeves are aluminum

6、接续管(耐热导线用、搭接型)

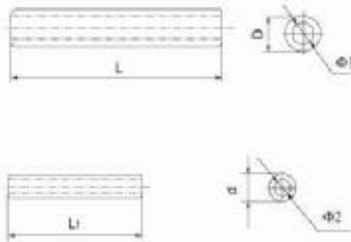
Splicing Sleeves For HRAAS Standed Wire Coverlap Joint



型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)				握力 Grip Strength >KN	重量 Weight (kg)
		D	d	L	Li		
JYD-300/25N	NRLH58GJ-300/25	50	20	580	80	75.8	2.4
JYD-400/35N	NRLH58GJ-400/35	55	24	604	100	103.0	3.2

7、接续管(钢芯铝绞线用、液压搭接)

Splicing Sleeves For ACSR Conductor (Hydraulic Overlap Joint)

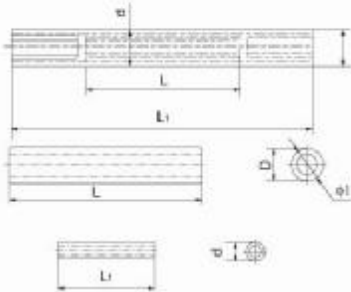


型号 Catalog No.	适用导线范围 Applicable Conductor(mm)	主要尺寸 Dimension (mm)						挤力 Sip Strength >(KN)	重量 Weight (kg)
		D	d	L	Li	φ1	φ2		
JYD-150/35	LGJ-150/35	36	22	380	100	25.5	18.5	61.8	0.64
JYD-185/25	LGJ-185/25	38	20	400	90	27	11.2	56.5	0.83
JYD-185/30	LGJ-185/30	32	20	372	82	21	12	61	0.62
JYD-185/45	LGJ-185/40	40	24	430	110	28	14	76.2	0.82
JYD-300/15	LGJ-300/15	40	18	470	70	24.5	8.4	65	0.89
JYD-300/20	LGJ-300/20	40	18	490	60	25.0	9.8	72	0.91
JYD-400/20	LGJ-400/20	45	18	550	80	28.5	9.8	84	1.24
JYD-300/25	LGJ-300/25	40	20	480	90	25.5	11.2	79	0.95
JYD-400/25	LGJ-400/25	45	20	550	90	28.5	11.2	91	1.30
JYD-240/30	LGJ-240/30	36	20	460	100	31.5	12.0	72	0.76
JYD-400/35	LGJ-400/35	45	22	540	100	23.0	13.0	99	1.32
JYD-500/35	LGJ-500/35	52	22	620	100	28.5	13.0	114	2.00
JYD-240/40	LGJ-240/40	36	20	440	100	23.0	13.3	79	0.76
JYD-300/40	LGJ-300/40	40	20	490	100	25.5	13.3	88	1.97
JYD-500/45	LGJ-500/45	52	24	610	110	31.5	14.0	122	2.0
JYD-630/45	LGJ-630/45	60	24	690	110	35.5	14.0	141	2.97
JYD-300/50	LGJ-300/50	40	22	490	120	26.0	15.0	98	1.03
JYD-400/50	LGJ-400/50	45	24	570	120	29.5	15.4	117	1.40
JYD-720/50	ACSR-720/50	60	24	715	120	38.5	15.4	162	4.00
JYD-240/55	LGJ-240/55	36	22	470	120	24.4	16.0	97	1.17
JYD-630/55	LGJ-630/55	60	26	680	120	36.0	16.0	156	3.02
JYD-800/55	LGJ-800/55	65	26	780	120	40.0	16.0	182	3.85
JYD-300/60	LGJ-300/60	42	24	525	130	27.0	16.5	114.7	2.60
JYD-400/65	LGJ-400/65	48	26	560	130	29.5	17.2	129	1.75
JYD-500/65	LGJ-500/65	52	26	640	130	32.5	17.2	146	20.20
JYD-300/70	LGJ-300/70	42	24	520	130	27.0	18.0	122	1.32
JYD-800/70	LGJ-800/70	65	26	760	130	40.5	18.0	197	3.80

外管为铝制件,内管为热镀锌钢制件。
The outer sleeve are aluminium, the inner sleeve is hot-dip galvanized steel.

8、接续管(耐热导线用)

Splicing Sleeves For HRAAS Stranded Wire



型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)				挤力 Sip Strength >(KN)	重量 Weight (kg)
		D	d	L	Li		
JY-180/30N	NRLH58/60-185/30	36	16	620	200	63	1.5
JY-240/30N	NRLH58/60-240/30	45	18	640	200	68	2.6
JY-400/65N	NRLH60GJ-400/35	55	24	800	280	132	4.6
JY-500/70N	NRLH55GJ-500/70	65	22	1120	320	200	7.8

内接续管为热镀锌钢制件,外接续管及两端衬管为铝制件。
The inner sleeve is hot-dip galvanized steel,the outer sleeve and lining sleeves are aluminium.

9、接续管(钢芯铝绞线用、爆压)

Splicing Sleeves For ACSR Conductor (Explosive Overlap Joint)

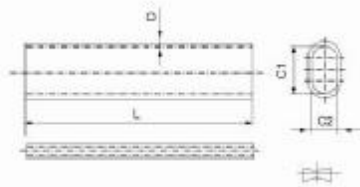
1) 接续管 Splicing Sleeves For ACSR Conductor (Explosive Overlap Joint)



型号 Catalog No.	适用导线范围 Applicable Conductor(mm)	主要尺寸 Dimension (mm)				握力 Slip Strength >(kN)	重量 Weight (kg)
		D	d	L	l		
JYD-70/40BG	JL/LB20A-70/40	34	20	330	110	58.0	0.8
JYD-120/70BG	JL/LB20A-120/70	36	24	380	120	96.0	0.9
JYD-185/30BG	ACSR/AS-185/30	36	18	490	130	62.9	1.4
JYD-240/30BG	ACSR/AS-240/30	38	20	490	110	74.0	1.2
JYD-240/40BG	ACSR/AS-240/40	38	22	500	110	81.6	1.2
JYD-300/25BG	ACSR/AS-300/25	42	20	500	90	74.4	1.4
JYD-300/40BG	ACSR/AS-300/40	42	22	530	110	90.0	1.5
JYD-300/50BG	ACSR/AS-300/50	42	24	550	130	101.0	1.5
JYD-300/70BG	ACSR/AS-300/70	42	24	600	160	117.8	1.6
JYD-400/35BG	ACSR/AS-400/35	48	22	560	100	99.0	2.1
JYD-400/50BG	ACSR/AS-400/50	48	24	590	130	117.0	2.1
JYD-500/45BG	ACSR/AS-500/45	52	24	690	120	124.0	2.8
JYD-630/45BG	ACSR/AS-630/45	60	24	740	130	144.0	4.6

外管为铝制品,内管为热镀锌钢制品。
The outer sleeve are aluminium, the innersleeve is hot-dip galvanized steel.

2) 导线跳线用 Splicing Sleeves For Jumper Conductor

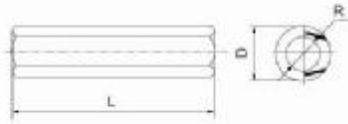


型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)				重量 Weight(kg)
		D	C1	C2	L	
JTB-70/40	LGJ-70/40	2.6	30.4	14.7	250	0.21
JTB-95/55	LGJ-95/55	3.1	36.5	17.5	250	0.25
JTB-210/50	LGJ-210/50	5.0	47	22.6	370	0.72
JTB-300/25	LGJ-300/25	5.0	54.0	26	296	0.66
JTB-400/35	LGJ-400/35	5.0	60.0	39	330	0.80
JTB-400/95	LGJ-400/95	5.5	64.0	31	330	1.00

外管为铝制品,内管为热镀锌钢制品。
The outer sleeve are aluminium, the innersleeve is hot-dip galvanized steel.

10、补修管(钢芯铝绞线、钢绞线用)

Repair Sleeves For ACSR Conductor, Steel Wire



型号 Catalog No.	适用导线范围 Applicable Conductor(mm)	主要尺寸 Dimension (mm)			重量 Weight (kg)
		D	L	R	
JX-70/40	LGJF-70/40 LGJ-70/40	26	200	7.5	0.2
JX-90/40	LGJ- 90/40	30	150	8	0.3
JX-95/55	LGJ- 95/55	32	150	9.0	0.3
JX-95/140	LGJ- 95/140	32	200	11	0.7
JX-150/25	LGJ- 150/25	30	150	9.5	0.3
JX-150/35	LGJ- 150/35	30	150	9.5	0.2
JX-180.2	XLXGJ-180	38	200	9.1	1.4
JX-185	LGJ- 185/25 185/30 185/45	32	170	10.5	0.2
JX-185/10	LGJ- 185/10	32	170	10.0	0.2
JX-210	LGJ- 210/25 210/35	34	200	11.0	0.3
JX-240	LGJ- 240/30 240/40	36	220	11.5	0.4
JX-240/55	LGJ- 240/55	36	220	12.0	0.4
JX-300	LGJ- 300/20 300/25 300/40 300/50	40	270	13.0	0.6
JX-300/15	LGJ- 300/15	40	270	12.5	0.6
JX-300/70	LGJ- 300/70	40	270	13.5	0.6
JX-400	LGJ- 400/20 400/25 400/35	45	320	14.5	0.8
JX-400/50	LGJ- 400/50	45	320	14.5	0.9
JX-400/65	LGJ- 400/65	48	320	15.0	0.9
JX-400/95	LGJ- 400/95	48	320	15.5	0.9
JX-500	LGJ- 500/35 500/45 500/65	52	320	16.0	1.1
JX-630	LGJ- 630/45 630/55 630/80	60	370	18.0	1.7
JX-720/50	ACSR-720/50	60	370	19.0	1.7
JX-720/90	ACSR-720/90	60	400	19.5	1.8
JX-800	LGJ- 800/70 800/100	65	370	20.5	1.9
JX-800/55	LGJ- 800/55	65	370	20.0	1.9
JX-70BG	JLB23-70	22	190	5.8	0.2
JX-80BG	LB20J-80	24	200	6.4	0.2
JX-90BG-27	JLB2-40	26	160	6.6	0.2
JX-95/55HG1	LHBGJ-95/55	38	140	8.7	0.5
JX-120HG	HL4GJ-120	32	120	8.5	0.2
JX-120/25H	AACSR-120/25	36	140	8.5	0.2
JX-400/35H	LHGJ-400/35	55	320	14	0.6
JX-465/60H	A3/S3A-465/60	60	350	16	2.0
JX-500/230H	AACSR/EST-500	65	370	18.5	2.3
JX-400N	NAHLGJQ-400	55	320	14.5	1.5
JX-400/35N	NRLH58GJF-400/35	55	320	14	1.6
JX-400/65N	NRLH60GJ-400/65	55	300	15	1.4

铝制品或热镀锌钢制作。
Material is aluminum or hot-dip galvanized steel.

11、并沟线夹(钢绞线用)

Parallel Groove Clamps For Steel Wire

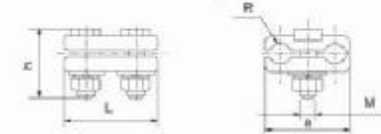


图1 Fig1

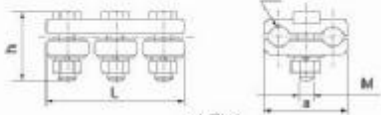


图2 Fig2

型号 Catalog No.	适用钢绞线截面 Steel Wire Section Area	简图 Fig No.	主要尺寸 Dimension (mm)					重量 Weight(kg)
			a	M	L	R	h	
JBB-1	25-35	1	44	12	90	4.5	40	0.7
JBB-2	50-70	1	50	16	90	6.0	50	1.00
JBB-3	100-120	2	56	16	124	7.0	55	1.9

线夹本体和盖板为可锻铸铁,其余为钢制件,全部热镀锌。
The clamp body and keepers are malleable iron, the other parts are steel. All ferrous parts are hot-dip galvanized.

12、并沟线夹(铝绞线、钢芯铝绞线用)

Parallel Groove Clamps For AAC & ACSR Conductor

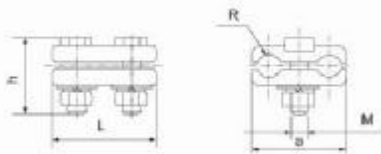


图1 Fig1

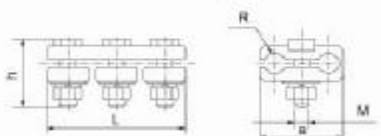


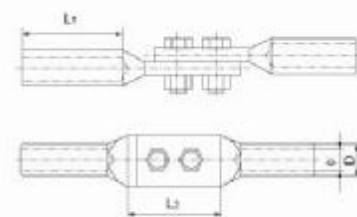
图2 Fig2

型号 Catalog No.	适用钢绞线截面 Conductor Section Area (mm ²)	简图 Fig No.	主要尺寸 Dimension (mm)					重量 Weight(kg)
			a	M	L	R	h	
JB-0	16-25	1	36	10	72	3.5	35	0.2
JB-1	25-50	1	43	12	80	5.0	40	0.4
JB-2	70-95	2	50	12	114	7.0	45	0.7
JB-3	120-150	2	62	16	140	8.5	50	1.1
JB-4	185-240	2	71	16	144	11.0	55	1.3
JB-5	300-400	1	100	20	215	15.5	110	5.9
JB-6	500/630	1	110	20	230	18.5	120	6.5

线夹本体和盖板为铝合金件,其余为热镀锌钢制件。
The clamp body and keepers are aluminium alloy, the other parts are steel. All ferrous parts are hot-dip galvanized.

13、跳线线夹(压缩型)

Jumper Connectors (Hydraulic Compression Type)

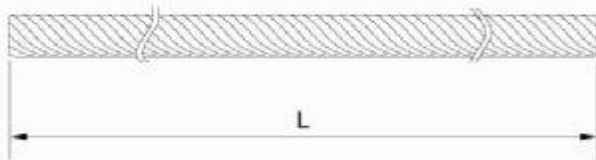


型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)				重量 Weight(kg)
		D	Lr	Lr	φ	
JYT-25/6	LGJ-35/6	16	60	30	9.5	0.41
JYT-50/8	LGJ-50/8	18	60	30	11.0	0.45
JYT-70/10	LGJ-70/10	22	70	30	13.0	0.54
JYT-95/15	LGJ-95/15	26	80	30	15.0	0.62
JYT-120/7	LGJ-120/7	26	80	40	16.0	0.60
JYT-120/20	LGJ-120/20	26	80	40	16.5	0.58
JYT-150/8	LGJ-150/8	30	90	40	17.5	0.84
JYT-150/20	LGJ-150/20	30	90	40	18.0	0.84
JYT-150/25	LGJ-150/25	30	90	40	18.5	0.84
JYT-185/10	LGJ-185/10	32	90	40	19.5	0.94
JYT-185/25	LGJ-185/25	32	90	40	20.5	0.90
JYT-185/30	LGJ-185/30	32	90	40	20.5	0.90
JYT-210/10	LGJ-210/10	34	100	40	20.5	1.18
JYT-210/25	LGJ-210/25	34	100	40	21.5	1.14
JYT-210/35	LGJ-210/35	34	100	40	22.0	1.10

线夹本体为铝制件,其余为热镀锌钢制件。
The clamp body is aluminium, the other parts are hot-dip galvanized steel.

保护金具 Protective Fitting

护线条 Armor Rods



一般概述

护线条主要作用是增加线夹出口附近的电线刚度和分担导线张力,减少弯曲应力及线夹出受到的挤压应力和磨损,卡伤等,并使导线在悬垂线夹中的应力集中现象得以改善,导线振动时可使导线受到的动弯应力减少20%-50%。其结构简单,一组预绞丝形成空管,包裹在导线的周围,保护导线不受损伤。护线条有长有短,可以根据客户的要进行定做。

修补条是用来修补损伤的导线,使他恢复原来的强度和导电性,也可以保护分线条,使导线分支点上避免受到由于电弧和磨损所引起的损伤。

产品特点

- 1、良好的制造工艺,使导线能被紧紧握住,避免了导线滑移,可以将导线的磨损降到最低限度。
- 2、由于预绞丝具有握紧弹性,所以,可以保证导线长期使用不松动。
- 3、选用优质的材质,较强的抗腐蚀性,保证长期使用安全使用。
- 4、安装简便,无需任何的专用工具和专业训练,徒手可以在现场安装,一个人可以完成。
- 5、通用性强,可以与多种金具配套使用。

短护线条:当钢芯铝绞线外层铝线及铝导线中有少于25%的线条发生断裂时,可采用短护线条修复,可恢复100%的机械和电气性能。

长护线条:当钢芯铝绞线外层铝线及铝导线中有25%-50%的线条发生断裂时,可采用护线条修复,可恢复100%的机械性能和电气性能。

General Recommendations

The main function of armor rod is to increase the stiffness of wire near the outlet of clamp, share the tensility of conductor, reduce bending stress, crushing stress, abrasion, damage caused by clipping, etc., improve the stress concentration of conductor in suspension clamp and reduce 20%-50% of dynamic bending stress during vibration of conductor. It has a simple structure: one group of preformed armor rods form a hollow tube wrapping around the conductor and preventing it from damage. The length of armor rods can be ordered by customers.

Armor rods can repair the damaged conductor to recover its original strength and conductivity, protect the branching line and prevent the branch point of conductor from the damage caused by electric arc and abrasion.

Product Characteristics

- 1、Good manufacture craft to make the conductor gripped tightly, prevent the slippage and reduce the abrasion to a minimum;
- 2、The preformed armor rod has gripping elasticity to guarantee that the conductor will not loose or move for a long term;
- 3、Select the materials with good quality and high corrosion resistance to ensure the long-term safe operation;
- 4、Easy installation without any requirement of special tools and professional training;
- 5、One person is enough to finish the installa. It is versatile and matches with multiple fittings.

Short Armor Rod: Short armor rod can be adopted for repair when less than 25% of strands are broken in steel core aluminum strand wire's outer layer aluminum wire or conductor. 100% mechanical and electrical performance can be recovered.

Long Armor Rod: Long armor rod can be adopted for repair when 25%-50% of strands are broken in steel core aluminum strand wire's outer layer aluminum wire or conductor. 100% mechanical and electrical performance can be recovered.



钢芯铝绞线用预绞式修补条

Preformed Armor Rods For ACSR Repair

型号 Catalog No	适用导线直径范围 Suitable Conductor Diameter Range (mm)	导线规格 Specification Of Conductor	预绞式长度 Length Of Preformed Armor Rod (mm)	预绞式重量 Weight Of Preformed Armor Rod (kg)
FYB-95/15	13.40-13.70	LGJ-95/15	420	0.2
FYB-95/20	13.71-13.97	LGJ-95/20	420	0.2
FYB-95/55	15.80-16.20	LGJ-95/55	420	0.2
FYB-120/7	14.20-14.70	LGJ-120/7	450	0.3
FYB-120/20	14.80-15.20	LGJ-120/20	450	0.3
FYB-120/25	15.50-15.90	LGJ-120/25	450	0.3
FYB-150/8	15.80-16.20	LGJ-150/8	480	0.4
FYB-150/20	16.50-16.90	LGJ-150/20	480	0.4
FYB-150/25	16.90-17.30	LGJ-150/25	480	0.4
FYB-150/35	17.30-17.70	LGJ-150/35	480	0.4

铝绞线用护线条

Preformed Armor Rod (For Aluminum Strand Wire)

型号 Catalog No	适用直径范围 Suitable Diameter Range (mm)	适用导线类型(GB 1179-83) 铝绞线LJ Suitable Conductor Type (GB 1179-83) Aluminum Strand Wire LJ	线夹长度 Length Of Clamp	线夹的重量 Weight Of Clamp (Kg)
FYH-50	8.8-9.3	50	1210	0.4
FYHS-50	8.8-9.3	50	1520	0.4
FYH-70	9.8-10.5	70	1320	0.5
FYHS-70	9.8-10.5	70	1630	0.6
FYH-95	12.4-13.3	95	1370	0.5
FYHS-95	12.4-13.3	95	1670	0.6
FYH-120	14.0-14.9	120	1520	0.8
FYHS-120	14.0-14.9	120	1830	1.0
FYH-150	15.4-16.0	150	1500	1.0
FYHS-150	15.4-16.0	150	1630	1.1
FYH-185	17.3-17.9	185	1930	1.3
FYHS-185	17.3-17.9	185	2060	1.5
FYH-210	18.8-19.9	210	1830	1.5
FYHS-210	18.8-19.9	210	1830	1.5
FYH-240	20.7-21.5	240	1930	2.0
FYHS-240	20.7-21.5	240	1930	2.0
FYH-300	21.5-23.0	300	1980	2.2
FYHS-300	21.5-23.0	300	1980	2.2
FYH-400	25.8-26.3	400	2380	2.5
FYHS-400	25.8-26.3	400	2380	2.5

以上表格只列出部分产品，其他产品请与本公司联系！

Only a part of products are listed in the table. Contact our company for more products.

铝包钢线用护线条

Preformed Armor Rod (For Al-clad Steel Wire)

型号 Catalog No.	适用导线直径范围 Suitable Conductor Diameter Range (mm)	线夹长度 Length Of Clamp	重量 Weight(Kg)
FYH-0558	5.50-5.80	1020	0.3
FYHS-0558		1320	0.4
FYH-0630	5.81-6.30	1020	0.3
FYHS-0558		1320	0.4
FYH-0680	6.31-6.80	1020	0.4
FYHS-0680		1320	0.5
FYH-0730	6.81-7.30	1020	0.4
FYHS-0730		1320	0.5
FYH-0780	7.31-7.80	1020	0.5
FYHS-0780		1320	0.6
FYH-0830	7.81-8.30	1220	0.5
FYHS-0830		1520	0.6
FYH-0880	8.31-8.80	1270	0.6
FYHS-0880		1570	0.7
FYH-0930	8.81-9.30	1270	0.7
FYHS-0930		1580	0.8
FYH-0980	9.31-9.80	1270	0.7
FYHS-0980		1580	0.8
FYH-1030	9.81-10.30	1270	0.9
FYHS-1030		1580	1.0
FYH-1080	10.31-10.80	1320	0.9
FYHS-1080		1620	1.0
FYH-1150	10.81-11.50	1420	1.0
FYHS-1150		1730	1.1
FYH-1230	11.51-12.30	1420	1.0
FYHS-1230		1730	1.1
FYH-1300	12.31-13.00	1470	1.2
FYHS-1300		1770	1.4
FYH-1380	13.01-13.80	1520	1.5
FYHS-1380		1820	1.8
FYH-1470	13.81-14.70	1520	1.5
FYHS-1470		1820	1.8
FYH-1560	14.71-15.60	1570	1.8
FYHS-1560		1870	2.2
FYH-1650	15.61-16.50	1570	2.1
FYHS-1650		1870	2.5
FYH-1740	16.51-17.40	1620	2.5
FYHS-1740		1920	3.1
FYH-1830	17.41-18.30	1620	2.7
FYHS-1830		1920	3.1
FYH-1960	18.31-19.60	1670	2.9
FYHS-1960		1970	3.2
FYH-2040	19.61-20.40	1670	3.2
FYHS-2040		1970	3.4
FYH-2150	20.41-21.50	1720	3.4
FYHS-2150		2020	3.6

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钢芯铝绞线用护线条

Preformed Armor Rod For ACSR

型号 Catalog No.	适用导线外径 Outer Diameter Of Suitable Conductor	使用导线规格 Specification Of Suitable Conductor	长度L Length L	重量 Weight (Kg)
FYH-95/15	13.61	95/15	1400	0.53
FYH-95/20	13.87	95/20	1400	0.54
FYH-95/55	16.00	95/55	1500	0.62
FYH-120/27	14.50	120/27	1400	0.55
FYH-120/20	15.07	120/20	1400	0.57
FYH-120/25	15.74	120/25	1400	0.58
FYH-120/70	18.00	120/70	1800	0.75
FYH-150/8	16.00	150/8	1500	0.62
FYH-150/20	16.67	150/20	1500	0.65
FYH-150/25	17.10	150/25	1500	0.64
FYH-150/35	17.50	150/35	1500	0.66
FYH-185/10	18.00	185/10	1800	1.24
FYH-185/25	18.90	185/25	1800	1.25
FYH-185/30	18.88	185/30	1800	1.26
FYH-185/45	19.60	185/45	1800	1.26
FYH-210/10	19.00	210/10	1900	1.27
FYH-210/25	19.98	210/15	1900	1.28
FYH-210/35	20.38	210/35	1800	1.28
FYH-210/50	20.86	210/50	1800	1.30
FYH-240/30	21.60	240/30	1900	1.44
FYH-240/40	21.66	240/40	1900	1.44
FYH-240/55	22.40	240/55	1900	1.50
FYH-300/15	23.01	300/15	2000	2.30
FYH-300/20	23.43	300/20	2000	2.30
FYH-300/25	23.76	300/25	2000	2.33
FYH-300/40	23.94	300/40	2000	2.34
FYH-300/50	24.26	300/50	2000	2.34
FYH-300/70	25.20	300/70	2000	2.54
FYH-400/20	26.91	400/20	2200	2.80
FYH-400/25	26.64	400/25	2200	2.80
FYH-400/35	26.82	400/35	2200	2.80
FYH-400/50	27.63	400/50	2200	2.80
FYH-400/65	28.00	400/65	2200	2.83
FYH-400/95	29.14	400/95	2200	2.85
FYH-500/35	30.00	500/35	2500	3.48
FYH-500/45	30.00	500/45	2500	3.48
FYH-500/65	30.96	500/65	2500	3.50
FYH-630/45	33.60	630/45	2500	5.32
FYH-630/55	34.32	630/55	2500	5.40
FYH-630/80	38.82	630/80	2500	5.40
FYH-800/55	38.40	800/55	2500	6.02
FYH-800/70	38.58	800/70	2500	6.10
FYH-800/100	38.98	800/100	2500	6.20

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保护金具 Protective Fitting



FR 防振锤
FR dampers



FD 防振锤
FD dampers



FDZ 防振锤
FDZ dampers

一般概述

保护金具主要用于减少架空电力线路导线、避雷线的振动幅度，以及330kV以上线路和变电所绝缘子串的均压屏蔽等。如防振锤、间隔棒、均压屏蔽环……

产品型号中字母的意义为：

M—母线，R—软导线，F—防护、封头，Y—预绞丝，D—导线，J—间隔、均压，Z—终端、阻尼，Q—球绞，G—钢绞线、防振锤。

间隔棒线夹与导线连接时，应根据使用情况可在导线外缠铝包带。

General Recommendations

Protective fittings are used to restrain aeolian vibration of conductor and ground wire overhead transmission lines or to grade and shield the insulator string of 330kV and above transmission lines and substation. For example, dampers, spacers, grading and shielding rings……

The meanings of the letter & Arabic figure in the catalog are shown as follow:

M-Bus-bar, R-cable, F-Protection, end cap, Y-preformed armor rod, D-conductor, J-space, voltage, Z-Damper terminal, Q-ball joint, G-steel wireium tapes as installing dampers and spacers and spacers on to it.

The conductor may be wound by aluminium tapes as installing dampers dampers and spacers on to it.



1、防振锤(FD、FG型)

Dampers (Type FD, FG)

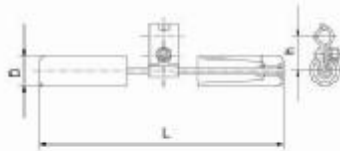


图1 Fig1

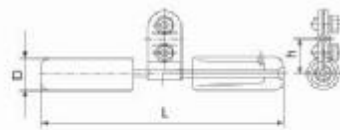


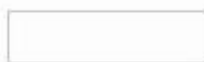
图2 Fig2

型号 Catalog No.	适用绞线截面 Conductor Section Area (mm ²) 钢绞线 Steel Wire 钢芯铝绞线 AAC/ACSR	筒径 Fig No.	主要尺寸 Dimension (mm)			重量 Weight(kg)
			L	D	h	
FD-1	35-50	2	300	40	40	1.5
FD-2	70-95	1	370	46	55	2.4
FD-3	120-150	1	450	56	65	4.5
FD-4	185-240	1	500	62	70	5.6
FD-5	300-400	1	550	67	75	7.2
FD-6	500-630	1	550	70	75	8.6
FG-35	35	2	300	42	50	1.8
FG-50	50	2	350	46	50	2.4
FG-70	70	1	400	56	60	4.2
FG-100	100	1	500	62	65	5.9

锤头为灰铸铁件，涂漆，其余为热镀锌钢制件。
Counter weights are grey iron painted. The other parts are hot-dip galvanized steel.

2、铝包带

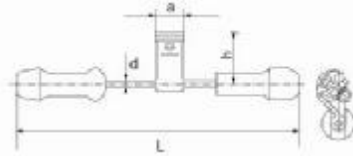
Aluminium Tape



公称规格 Catalog No.	厚度 Thickness dia (mm)	宽度 Width dia (mm)	重量 Weight(kg)	
			Kg/m	M/Kg
1×10	1.0	10	0.027	37

3、防振锤(4D型)

Dampers (Type AD)

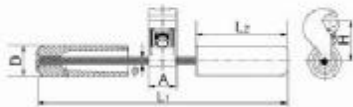


型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)				重量 Weight(kg)
		L	a	b	d	
4D-20	14.0-12.2	330	52	62	7.5	1.4
	16.0-13.3	330	52	63	7.5	1.4
	18.0-15.0	330	52	65	7.5	1.4
4D-30	20.3-16.5	383	52	73	9	2.5
	23.4-19.5	383	52	72	9	2.5
	27.0-22.5	383	52	70	9	2.5
4D-40	27.6-24.5	542	66	98	11	4.7
	30.5-27.0	542	66	96	11	4.7
	34.0-29.5	542	66	94	11	4.7
4D-50	36.0-32.3	595	66	104	13	5.3
	39.3-35.3	595	66	101	13	5.3
	43.0-38.4	595	66	100	13	5.3

线夹为铝合金件, 锤头为灰铸铁件, 其余为热镀锌钢制件。
clamp is aluminium alloy and counter weight piece ys grey east iron, painted. If user demands

4、防振锤(防电晕型)

Dampers (Corona Free TYPE)

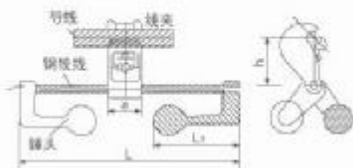


型号 Catalog No.	适用导线范围 Applicable Conductor (mm)	主要尺寸 Dimension (mm)					钢绞线规格 Stp. Strength	锤头重量 Weight (kg)	重量 Weight (kg)
		D	A	H	L1	L2			
FD-1L	LGJ-35-50	40	50	81	300	95	7/2.6	0.54	1.5
FD-2L	LGJ-70-90	46	50	81	370	130	7/3.0	0.94	2.4
FD-3L	LGJ-120-150	56	50	81	450	150	19/2.2	1.74	4.5
FD-4L	LGJ-185-240	62	50	91	500	175	19/2.2	2.17	5.6
FD-5L	LGJ-300-500	67	50	96	550	200	19/2.6	3.00	7.2
FD-6L	LGJ-500-630	70	50	96	550	200	19/2.6	3.60	8.6

线夹为铝合金件, 重锤为灰铸铁件, 浸漆, 如用户需要, 重锤可热镀锌。
clamp is aluminium alloy and counter weight piece ys grey cast iron, painted. If user demands the counter weight piece will be hot-dip galvanized.

5、防振锤(FDZ型)

Combined Type Spacer-dampers (FDZ Type)

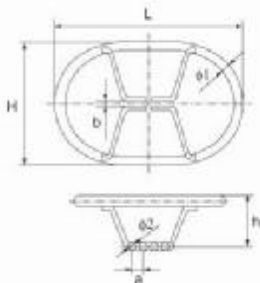
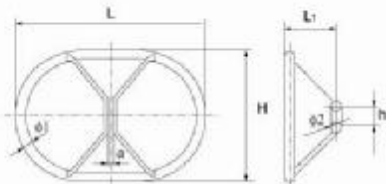
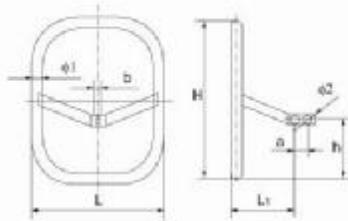
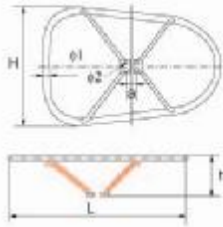


型号 Catalog No.	适用钢绞线直径范围 Conductor (mm)	主要尺寸 Dimension (mm)				钢绞线规格 Specification	单锤重量 Weight(kg)	钢绞线规格 Specification
		a	b	L1	L2			
FDZ-1	7.0	50	30.7	120	320	19/1.8	0.7	1.80
FDZ-2	11.0-15.0	50	30.7	130	450	19/1.8	0.9	2.30
FDZ-3	14.0-19.0	60	44.7	150	430	19/2.2	1.7	4.40
FDZ-4	18.0-22.5	60	44.7	160	470	19/2.2	2.1	5.50
FDZ-5	22.0-29.0	60	61.5	180	520	19/2.6	3.0	7.10
FDZ-6	28.0-35.0	60	61.5	180	520	19/2.6	3.6	8.30
FDZ-1T	7.8	50	30.7	120	320	19/1.8	0.7	1.80
FDZ-2T	9.0-9.6	50	30.7	130	350	19/1.8	0.9	2.30
FDZ-3T	11.0-11.5	60	44.7	150	430	19/2.2	1.7	4.40
FDZ-4T	13.0	60	44.7	160	470	19/2.2	2.1	5.50

线夹为铝合金件, 锤头为灰铸铁件, 涂漆或热镀锌, 其余为热镀锌钢制件。
clamp is aluminium alloy and counter weight piece ys grey cast iron, painted. If user demands the counter weight piece will be hot-dip galvanized.

6、均压屏蔽环

Grading & Shielding Rings



6-1

型号 Catalog No.	主要尺寸 Dimension (mm)						重量 Weight (kg)
	H	h	a	φ ₁	φ ₂	L	
FJP-500N	900	330	60	50	18	1450	18.5
FJP-500NL	900	330	60	50	18	1450	7.7
FJP-500NL ₁	900	380	60	50	18	1450	7.9
FJP-500NL ₂	900	380	60	50	18	1570	8.4
FJP-500NL ₃	900	380	60	50	18	1800	9.3
FJP-500NL ₄	800	380	60	50	18	1680	8.4

主体为铝制品，其余为热镀锌钢制品。
The body is aluminium, the other parts are hot-dip galvanized steel.

6-2

型号 Catalog No.	主要尺寸 Dimension (mm)								重量 Weight (kg)
	L	L ₁	H	h	φ ₁	φ ₂	a	b	
FJP-500XL	600	235	700	250	50	18	60	20	8.7
PI-500X	700	285	800	300	50	18	60	20	5.0
PL-500X	600	235	700	250	50	18	60	20	4.6

主体为铝制品，其余为热镀锌钢制品。
The body is aluminium, the other parts are hot-dip galvanized steel.

6-3

型号 Catalog No.	主要尺寸 Dimension (mm)							重量 Weight (kg)
	L	L ₁	H	b	φ ₁	φ ₂	a	
FJP-500XD	700	290	600	80	50	18	20	8.8
FJP-500XD ₁	700	270	600	45	50	14	50	9.0
FJP-500X ₁	1150	490	1150	80	50	18	30	20.10
FJP-500XDL	700	290	600	80	50	14	20	3.9
FJP-500XDL ₁	800	290	700	80	50	18	20	4.8
FJP-500XDL ₂	700	290	600	80	50	14	20	4.1
FJP-500XDL ₃	800	210	700	80	50	18	20	4.6
FJP-500XDL ₄	700	290	600	40	50	14	20	4.1
FJP-500XD ₁ L	700	270	600	45	50	14	50	3.9

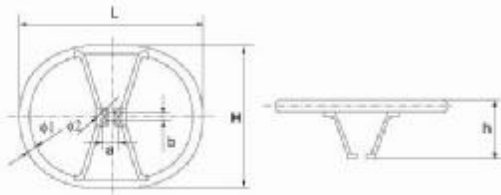
主体为铝制品，其余为热镀锌钢制品。
The body is aluminium, the other parts are hot-dip galvanized steel.

6-4

型号 Catalog No.	主要尺寸 Dimension (mm)							重量 Weight (kg)
	L	H	h	φ ₁	φ ₂	a	b	
FJP-500XS	1050	600	230	50	18	60	22	4.5
FJP-500XSL ₁	1200	600	230	50	18	60	20	6.1
FJP-500XSL ₂	1280	680	260	50	18	60	20	6.3
FJP-500XSL ₃	1140	600	260	50	18	60	20	5.6
FJP-500XSL ₄	1280	680	305	50	18	60	30	7.6

主体为铝制品，其余为热镀锌钢制品。
The body is aluminium, the other parts are hot-dip galvanized steel.

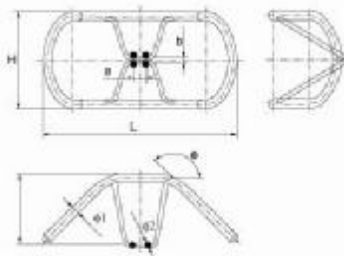




6-5

型号 Catalog No	主要尺寸 Dimension (mm)							重量 Weight (kg)
	L	H	h	φ ₁	φ ₂	a	b	
Pi-500N ₄	1050	750	270	50	18	60	60	10.7
Pi-500NSL	1050	750	270	50	18	60	60	6.6

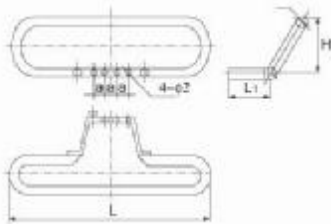
主体为铝制件，其余为热镀锌钢制件。
The body is aluminium, the other parts are hot-dip galvanized steel.



6-6

型号 Catalog No	主要尺寸 Dimension (mm)							重量 Weight (kg)
	L	H	h	φ ₁	φ ₂	a	b	
FJP-500XV/45	1213	600	440	50	18	80	22	7.1
LJj-500XV/50	1236	600	492	50	18	80	20	7.2
LJj-500XV/45	1156	600	463	60	18	80	26	8.7
LJj-500XV-L	1149	600	430	60	18	80	28	9.2

主体为铝制件，其余为热镀锌钢制件。
The body is aluminium, the other parts are hot-dip galvanized steel.



6-7

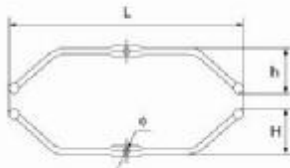
型号 Catalog No	主要尺寸 Dimension (mm)						重量 Weight (kg)
	L	L ₁	H	a	φ ₁	φ ₂	
J-500NSL	1060	215	300	60	50	18	4.3
J-500NSL ₁	1200	215	300	60	50	18	5.3
J-500DSL	1060	215	300	180	50	18	6.2
J-500N ₄	800	215	370	180	50	18	6.4

主体为铝制件，其余为热镀锌钢制件。
The body is aluminium, the other parts are hot-dip galvanized steel.

7、悬垂用招弧角

Arcing Horn For Suspension

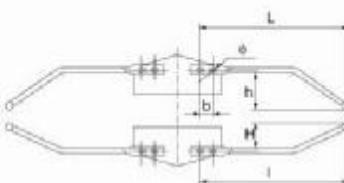
1) 单联悬垂串用 Arcing Horn For Single Suspension String



型号 Catalog No	主要尺寸 Dimension (mm)				重量 Weight (kg)
	H	h	φ	L	
AH/SD-138	114	197	14.5	712	3.3
AH/SD-161	114	197	14.5	800	3.8

热镀锌钢制件。
Hot-dip galvanized steel.

2) 双联悬垂串用 Arcing Horn For Double Suspension String



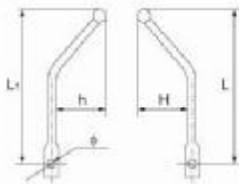
型号 Catalog No	主要尺寸 Dimension (mm)						重量 Weight (kg)
	H	h	L	l	φ	b	
AH/SS-138	203	270	410	410	14.5	45	3.6
AH/SS-161	203	270	436	436	14.5	45	4.0

热镀锌钢制件。
Hot-dip galvanized steel.

8、耐张用招弧角

Arcing Horn For Strain Clamp

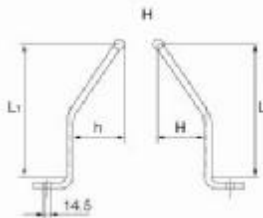
1) 单联耐张串用 Arcing Horn For Single Strain Clamp



型号 Catalog No.	主要尺寸 Dimension (mm)					重量 Weight (kg)
	H	h	L	L1	φ	
AH/TD-138	114	197	356	356	14.5	1.8
AH/TD-161	114	197	337	337	14.5	1.8

热镀锌钢制件。
Hot-dip galvanized steel.

2) 双联耐张串用 Arcing Horn For Double Strain Clamp

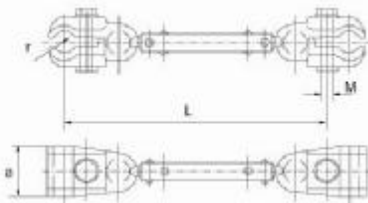


型号 Catalog No.	主要尺寸 Dimension (mm)				重量 Weight (kg)
	H	h	L1	L	
AH/TS-138	128	192	381	381	1.6
AH/TS-161	128	192	356	356	1.8

热镀锌钢制件。
Hot-dip galvanized steel.

9、双分裂间隔棒(FJQ型)

Spacers (Type FJQ)

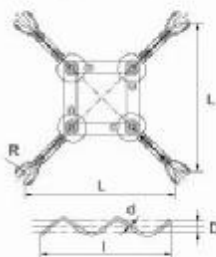


型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)				重量 Weight (kg)
		a	M	r	L	
FJQ-204	LGJ185~240	60	12	11.0	200	0.9
FJQ-205	LGJ300~400	60	12	14.5	200	1.1
FJQ-206	LGJ500~630	60	12	17.5	200	1.9
FJQ-404	LGJ185~240	60	12	11.0	400	1.0
FJQ-405	LGJ300~400	60	12	14.5	400	1.2
FJQ-406	LGJ500~630	60	12	17.5	400	2.0
FJQ-455	LGJ300~400	60	16	15.4	450	2.5

本体和压板为铝合金件，其余为热镀锌钢制件。
The body and keepers are aluminum alloy, the other parts are hot-dip galvanized steel.

10、预绞式阻尼间隔棒(500kV线路用)

Armor-grip Spacers (For 500kV Lines)



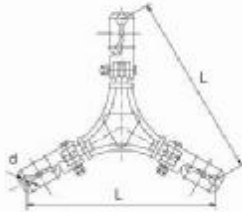
型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)					重量 Weight (kg)
		L	l	R	D	d	
FJS-45/300	LGJQ-300	450	1250	14.5	19	6.3	8.0
FJS-45/400	LGJQ-400	450	1250	14.5	22	6.3	8.0

预绞丝、线夹和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。
Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.



11、间隔棒(三分裂导线用)

Spacers-Dampers For Three-Bundle Conductor

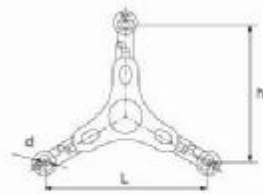


11-1

型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)		重量 Weight (kg)
		L	d	
JX1-300	LGJQ-300	450	26	5.6
JX1-400	LGJQ-400	450	29	5.6

线夹为铝合金件, 阻尼垫为合成橡胶, 其余为热镀锌钢制件。
The clamps are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

11-2



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)			重量 Weight (kg)
		d	h	L	
FJZ-380/440	HL-GJT-440	33.0	640	800	11.6

线夹为铝合金件, 阻尼垫为合成橡胶, 其余为热镀锌钢制件。
The clamps are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

12、双分裂间隔棒(FJZ型双导线用)

Spacer-Dampers (Type FJZ For Double Conductors)

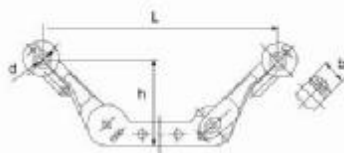


12-1

型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)		重量 Weight (kg)
		L	d	
FJZ-240/300	LGJ-300/20-50	400	19.4	3.1
FJZ-240/300A	LGJ-300/700	400	21.2	3.1
FJZ-240/400A	LGJ-400/20-35	400	22.8	3.1
FJZ-240/500	LGJ-500/45	400	26.6	4.0
FJZ-240/630	LGJ-630/45	400	33.0	5.4
FJZ-250/500	LGJ-500/45	500	26.6	4.5
FJZ-250/630	LGJ-630/45	500	33.0	6.2

本体和压板为铝合金件, 橡胶垫为并用胶, 其余为热镀锌钢制件。
The body and keepers are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

12-2



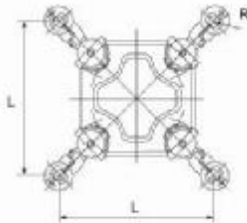
型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)				重量 Weight (kg)
		d	b	h	L	
FJZ-240G/400	LGJ-400/35	22.8	88	131	400	5.0
FJZ-255G/400	LGJ-400/50-95	27.0	56	148	550	6.2
FJZ-260G/640	AACSR/EST-640/290	38.8	96	138	600	10.0
FJZ-265G/720N	KTACSR/EST-720	40.6	96	138	650	10.2

本体和压板为铝合金件, 橡胶垫为并用胶, 其余为热镀锌钢制件。
The body and keepers are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

13、方框型阻尼间隔棒(500kV线路用)

Square Frame Type Spacer-dampers (For 500kV Lines)

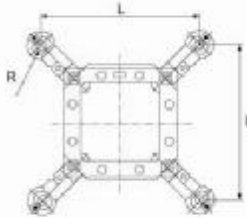
13-1



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)		重量 Weight (kg)
		L	R	
FJZ-445F/300	LGJ-300/20-50	450	9.7	8.4
FJZ-445F/400	LGJ-400/50-65	450	12.0	8.4
FJZ-445F/400A	LGJ-400/20-35	450	11.4	8.4
FJZ-445F/500	LGJ-500/45	450	13.3	8.4

线夹、盖板和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。
Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

13-2



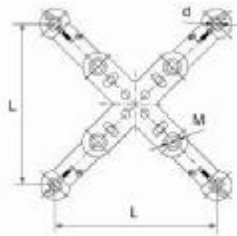
型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)		重量 Weight (kg)
		L	R	
FJZ-445F/630	LGJ-630/45	450	16.5	10.1
FJZ-450F/500	LGJ-500/45	500	15.2	10.6
FJZ-450F/630	LGJ-630/45	500	16.5	10.6
FJZ-450F/720	LGJ-720/50	500	17.8	10.4

线夹、盖板和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。
Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

14、十字型阻尼间隔棒(500kV线路用)

Cross Type Spacer-dampers (For 500kV Lines)

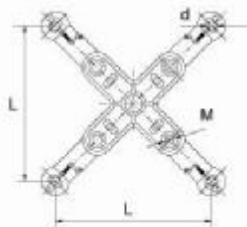
14-1



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)			重量 Weight (kg)
		L	M	d	
FJZ-300	LGJQ-300/20-50	450	12	19.4	8.7
FJZ-400A	LGJ-400/20-35	450	12	22.8	8.7
FJZ-400	LGJ-400/50-65	450	12	24	8.7

线夹为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。
The clamps are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

14-1



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)			重量 Weight (kg)
		L	M	d	
FJZL-300	LGJ-300/20-50	450	12	19.4	8.5
FJZL-400A	LGJ-400/20-35	450	12	22.8	8.5
FJZL-400	LGJ-400/50-65	450	12	24.0	8.5
FJZL-500	LGJ-500/35	450	12	26.0	8.5

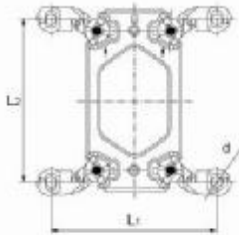
线夹、盖板和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。
Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.



15、矩形阻尼间隔棒(500kV线路用)

Rectangular Frame Type Spacer-dampers (For 500kV Lines)

15-1

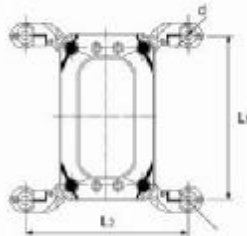


型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)			重量 Weight (kg)
		L ₁	L ₂	d	
FJZ-445J/300	LGJ-300/20-50	450	450	19.4	7.4
FJZ-445J/400A	LGJ-400/20-35	450	450	22.8	7.4
FJZ-445J/400	LGJ-400/50-65	450	450	24.0	7.4
FJZ-445J/720/90	ACSR-720/90	500	500	35.6	11.1
FJZ-445J/720H	ACSR-720/50	500	500	35.6	11.0

线夹、盖板和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。

Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

15-2



型号 Catalog No.	适用导线 Suitable Conductor	主要尺寸 Dimension (mm)			重量 Weight (kg)
		L ₁	L ₂	d	
FJZ-445JS/300	LGJ-300/20-50	450	450	19.4	7.7
FJZ-445JS/400A	LGJ-400/20-35	450	450	22.8	7.7
FJZ-445JS/400	LGJ-400/50-65	450	450	24.0	7.7

线夹、盖板和框架为铝合金件，阻尼垫为合成橡胶，其余为热镀锌钢制件。

Preformed armor rods, clamps and bracket are aluminium alloy, dampers are elastomer, the other parts are hot-dip galvanized steel.

16、预绞式间隔棒

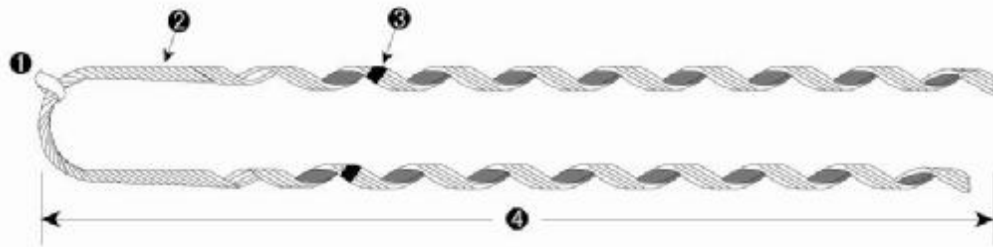
Helical Rod Spacer



型号 Catalog No.	适用导线直径范围 Conductor (mm)	长度 L (mm)	重量 Weight (kg)
HRS-7424	20.32 ~ 21.21	889	0.51
HRS-7425	21.23 ~ 22.05	889	0.51
HRS-7426	22.07 ~ 23.11	889	0.51
HRS-7427	23.14 ~ 24.13	1120	0.57
HRS-7428	24.16 ~ 25.25	1120	0.57
HRS-7429	25.27 ~ 26.37	1140	0.61
HRS-7430	26.39 ~ 27.64	1140	0.61
HRS-7431	27.66 ~ 28.96	1140	0.61
HRS-7432	30.58 ~ 30.38	1170	0.64
HRS-7433	30.40 ~ 31.75	1170	0.64
HRS-7434	31.78 ~ 33.15	1170	0.64
HRS-7435	33.17 ~ 34.67	1220	0.68
HRS-7436	34.70 ~ 36.20	1220	0.68
HRS-7437	36.22 ~ 37.90	1220	0.68
HRS-7438	37.92 ~ 39.67	1250	0.71
HRS-7439	39.70 ~ 41.12	1250	0.71
HRS-7440	41.15 ~ 42.62	1250	0.71
HRS-7441	42.65 ~ 43.97	1270	0.75
HRS-7442	43.99 ~ 45.59	1270	0.75
HRS-7443	45.62 ~ 47.12	1270	0.75
HRS-7444	47.14 ~ 48.84	1270	0.75

拉线金具 Guy Wire Fitting

预绞式拉线线夹 Preformed Guy Wire Clamp



- 1、对于所有规格的拉线，本公司采用扭绞工艺，形成绞合环。
- 2、标签：适用导线规格及产品型号。
- 3、色标：安装位置标记。
- 4、长度：不同规格型号的耐张线夹长度不同。

1. For guy wires of all specifications, our company uses stranding technology to form stranding rings.
2. **Tag**: applicable specifications of conductors and types of products.
3. **Color tag**: the mark of installation position.
4. **Length**: dead-end clamps of different specifications and types have different lengths.

一般概述

预绞式拉线线夹主要是用于固定铁塔、杆塔、微波塔拉线的拉线的线夹，可以替代目前国内在线路杆塔上常用的固定拉线的楔形线夹、U-T线夹等。拉线线夹的种类比较多，可以分为：用于普通拉线的拉线线夹；可调的拉线线夹和用于大型杆塔的大型拉线线夹。

预绞式拉线线夹的结构和原理非常简单：一组预绞丝经合并后形成了一个空管，当空管缠绕在拉线上受力时即对拉线产生了握紧力，保证了拉线的握紧强度，而另一端可以通过嵌环固定在地锚上。

产品特点

高强度是拉线线夹的显著特点，一般每个拉线线夹均有一段握紧余量，保证线夹对拉线的握紧力可达到拉线的额定拉断力以上；

选用优质材料，可以防止线夹和拉线之间发生电化腐蚀现象，保证了杆塔的安全；

简单的结构，给线夹的安装带来了便捷，手工现场操作，不需要任何的专用工具；

General Recommendations

Preformed dead-end guy wire clamp is mainly applied to fix the guy wires of iron towers, supports and microwave towers. It can replace the wedge clamps and U-T clamps which are in common use of fixing guy wires on the supports of lines in China. There are many kinds of guy wire clamps, including clamps for ordinary guy wires, adjustable guy wire clamps and large-sized guy wire clamps for large-sized supports.

Preformed dead-end guy wire clamp's simple structure and principle: a group of preformed armor rods are combined to form a hollow tube. When the hollow tube is wrapped on guy wire under load, it will generate gripping force to guy wire and ensure the gripping strength while the other end can be fixed on anchor block by thimble.

Product Characteristics

High strength is a notable characteristic of guy wire clamp. Generally, every guy wire clamp has a gripping margin to ensure its gripping force on guy wire higher than RTS;

Select high quality materials to prevent the electric corrosion between clamps and guy wires and ensure the security of supports;

Simple structure brings convenience to the installation of the clamp. Manual operation on the spot and no requirement of any special tools;



拉线线夹的安装质量直接可以用肉眼直接检测，安装外观简洁美观。

须知

1. 产品为具有特殊功能的一次性产品，使用时不可改变本产品任何部件。
2. 在带电线路或附件工作时，应注意安全，以防触电事故。在安装本产品前应根据线路的导线规格选择合适的耐张线夹，保证安装的良好性能。
3. 本产品仅由经过培训的熟练工人操作，未受过培训的人员均不得进行操作。
4. 该线夹的旋向应保持一致。标准的耐张线夹一般是右旋，如需要左旋耐张线夹，请事先预定。
5. 详细的请见安装手册。

The installation quality of guy wire clamps can be directly inspected by unaided eyes and the installation appearance is compact and pleasing.

Safety Considerations

1. Because the product has special function and it can be used only once, it can't be changed during the application.
2. Be careful during working on live line or accessories to prevent electric shock. In order to assure the good performance of installation, appropriate dead-end clamps shall be selected before installation according to the line's conductor.
3. The product can only be operated by trained and skilled workers. Untrained personnel are forbidden to do operation.
4. The revolving directions of the clamps shall be kept consistent. Generally, the standard dead-end clamp adopts right rotation. Please order in advance if you require left rotation.
5. Details are shown in installation manual.

产品图片 Product Picture



工程应用 Project Picture



钢绞线用预绞式拉线线夹

Preformed Guy Wire Clamp for Steel Stranded

型号 Type	拉线的截面积 Sectional Area Of Guy Wire (mm ²)	拉线的外径 Outer Diameter Of Guy Wire (mm)	线夹长度 Length Of Clamp (mm)	线夹的重量 Weight Of Clamp (kg)	色标 Color Tag
LNL-25/G	25	6.60	650	0.25	黄 Yellow
LNL-35/G	35	7.80	750	0.35	黑 Black
LNL-50/G	50	9.00	900	0.6	橙 Orange
LNL-70/G	70	11.00	1060	0.8	绿 Green
LNL-95/G	95	12.50	1500	1.8	橙 Orange
LNL-100/G	100	13.00	1500	1.8	黄 Yellow
LNL-120/G	120	14.00	1700	2.3	黄 Yellow

注：型号中文字与数字的意义：L—拉线；N—耐张线夹；L—螺旋预绞式“—”后为适用拉线的面积。表中仅列出公司的部分产品，其它规格请与我公司联系！
Note: The meaning of letters and numbers in the type: N—Dead-end clamps; L—spiral preformed type; the expression after “—” is the sectional area of applicable guy wire. This table only lists a part of our company's products. If products of other types are required, please contact our company.

预绞式大型耐张线夹

Big-e-Grip Preformed Guy Wire Clamps

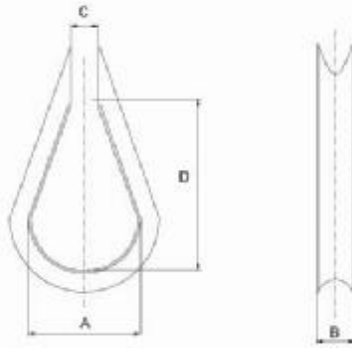
线夹型号 Type Of Clamp	直径范围 Range Of Diameter	线夹长度 Length Of Clamp	线夹重量 Weight Of Clamp	色标 Color Tag
DNL-1255	12.07-12.56	1100	1.1	蓝 Blue
DNL-1308	12.56-13.08	1150	1.1	绿 Green
DNL-1361	13.09-13.61	1200	1.5	红 Red
DNL-1410	13.62-14.10	1250	1.5	黄 Yellow
DNL-1448	14.11-14.48	1300	1.5	蓝 Blue
DNL-1501	14.49-15.01	1300	1.5	橙 Orange
DNL-1554	15.02-15.54	1300	1.5	绿 Green
DNL-1613	15.55-16.13	1400	1.5	黄 Yellow
DNL-1679	16.14-16.79	1450	1.5	黑 Black
DNL-1742	16.80-17.42	1500	2.3	蓝 Blue
DNL-1808	17.43-18.08	1550	3.0	红 Red
DNL-1882	18.09-18.82	1600	3.2	黑 Black
DNL-1961	18.83-19.61	1800	3.7	黄 Yellow
DNL-2012	19.62-20.12	2030	4.5	黄 Yellow
DNL-2101	20.13-21.01	2130	6.3	黑 Black
DNL-2200	21.30-22.00	2210	6.3	橙 Orange
DNL-2300	22.50-23.00	2310	6.9	绿 Green
DNL-2400	23.01-24.00	2360	7.1	黄 Yellow
DNL-2500	24.50-25.00	2410	7.9	黑 Black
DNL-2600	25.50-26.00	2740	9.6	橙 Orange
DNL-2800	27.50-28.00	2970	12.7	绿 Green
DNL-2900	28.50-29.00	3050	13.0	橙 Orange
DNL-3250	32.00-32.50	3835	18.6	黄 Yellow

本表格只列出部分产品。其他产品请与本公司联系！
Only a part of products are listed in the table. Contact our company for more products.



1、鸡心环

Thimble

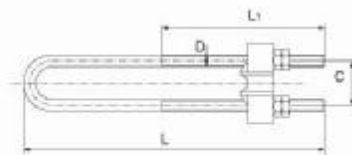


型号 Type	适用拉线截面 Sectional Area Of Applicable Guy Wire	尺寸 Dimension (mm)			
		A	B	C	D
TH-25	25	40	24	16	62
TH-35	35	40	24	16	62
TH-50	50	43	26	20	65
TH-70	75	43	26	20	65
TH-95	95	56	28	22	80
TH-100	100	56	28	24	80

材料 Material: 镀锌钢制件 Galvanized steel

2、可调拉线夹

Adjustable Guy Wire Clamp



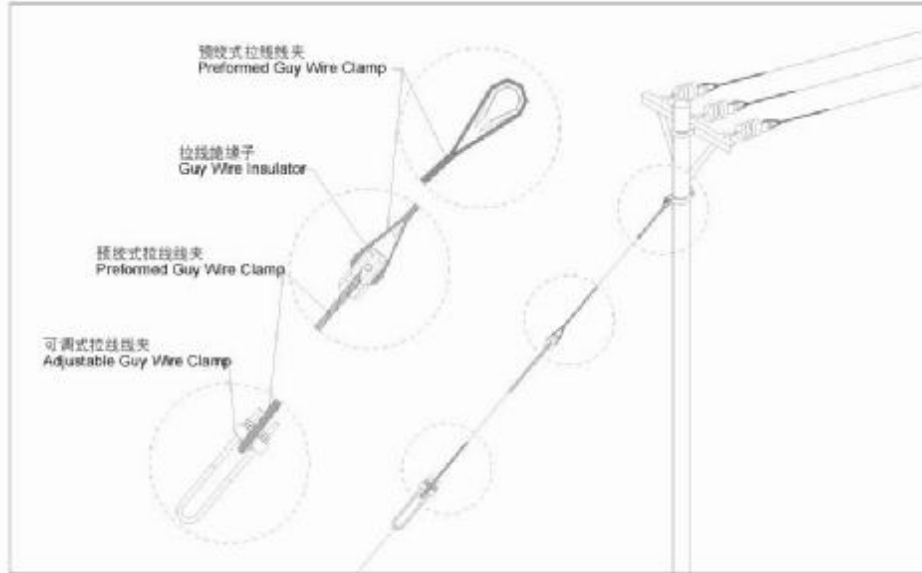
型号 Type	适用拉线截面 Sectional Area Of Applicable Guy Wire	尺寸 Dimension (mm)			
		L	L1	C	D
NUT-25	25	370	200	56	M16
NUT-35	35	370	200	56	M16
NUT -50	50	452	250	62	M18
NUT -70	75	452	250	62	M18
NUT -95	95	480	300	84	M22
NUT -100	100	480	300	84	M22
NUT-120	120	480	300	84	M22

3、拉线绝缘子

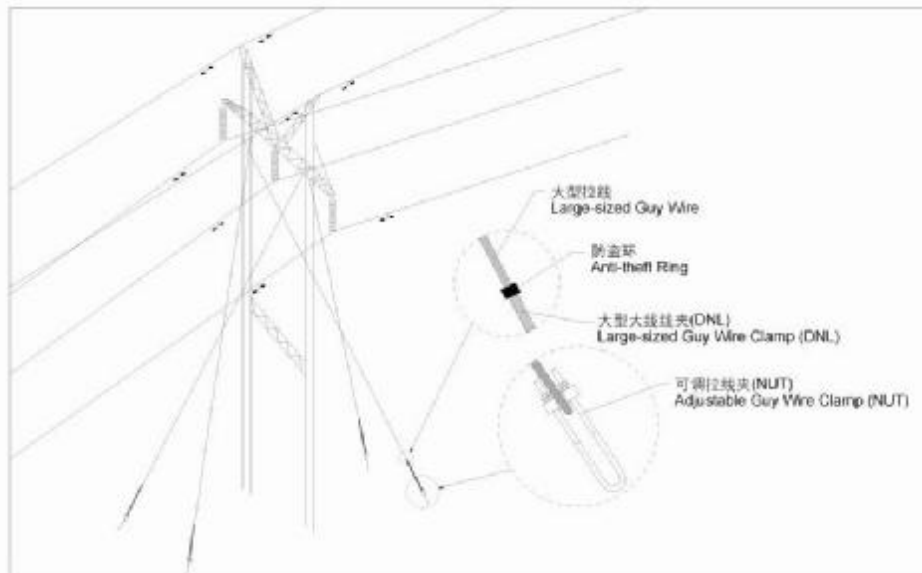
Guy Wire Insulator



拉线线夹安装图 Installation Figure Of Preformed Guy Wire Clamp



一般拉线线夹安装示意图
Installation Figure Of Normal Guy wire Clamp



大型拉线线夹安装示意图
Installation Figure Of Big-Grip Guy Wire Clamp



普通拉线金具 Guy Wire Fitting



JK 钢线卡子
JK steel guy clip



NX 楔型线夹
NX clamp wedge type



UL 型挂环
UL shackles



UT 线夹(不可调式)
UT clamp



心形环
Thimble



NUT 线夹(可调式)
NUT clamp (adjustable type)

一般概述

拉线金具主要用于固定拉线杆塔,包括从杆塔顶端顶端引至地面拉线之间所有的零件。拉线杆塔的安全运行,主要是依靠拉线及其拉线金具来保证的。

根据使用条件,拉线金具可分为紧线、调节及连接三类,共十二个系列。

耐张类拉线线夹型式有楔式和压接两种型式。

拉线金具技术要求执行有关的国家标准和专业标准。

General Recommendations

Guy wire fittings is mainly used in fixing guy wire tower arms,including all parts from tower arms to ground guy wire.Safety traffic of guy wire fittings mainly depends on guy wire and gut wire fittings.

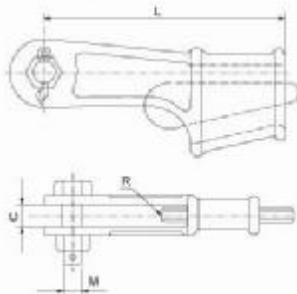
According to the service conditions,guy wire fittings are divided into fastenong/adkstromg and connecting which total in 12 series.

guy wire clamp has two types which are wedge type and compression joint.

The technical requirement for guy wire fitting needs to be carried out in accordance with the GB and fessional standard.

1、楔型线夹

Wedge Clamps

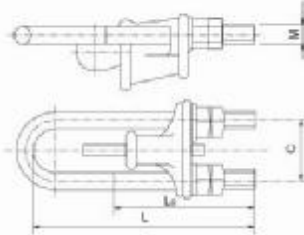


型号 Catalog No	钢绞线外径 Steel Wire Dia (mm)	主要尺寸 Dimension (mm)				标称破坏荷载 Rated Failure Load (KN)	重量 Weight (kg)
		C	M	L	R		
NX-1	6.6-7.8	18	16	150	6.0	45	1.19
NX-2	9.0-11.0	20	18	180	7.3	88	1.76
LX-3	3.0-14.0	24	24	200	7.3	143	3.20
LX-4	5.0-16.0	28	24	220	8.0	164	5.30

线夹的本身和楔子为可锻铸铁,热镀锌。闭口销为不锈钢制件,其余为热镀锌钢制件。
The body and wedge are malleable iron. The cotter pin is stainless steel. The other parts are steel. All ferrous parts are hotdip galvanized.

2. UT型线夹(不可调式)

UT Wedge Clamps(Non-Adjustable Type)

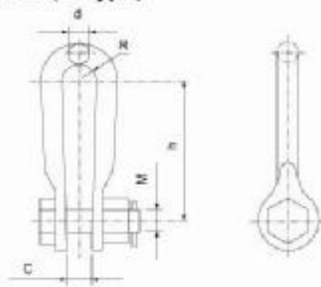


型号 Catalog No.	钢丝绳外径 Steel Wire Dia (mm)	主要尺寸 Dimension (mm)				标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
		C	M	L	L ₁		
NU-3	13.0-14.0	74	22	250	60	143	4.21
NU-4	15.0-16.0	82	24	340	70	164	7.27

线夹的本体和楔子为可锻铸铁，热镀锌，其余为热镀锌钢制件。
The body and wedge are malleable iron. The cotter pin is stainless steel. The other parts are hot-dip.

3. 拉线用U型挂环

Shackles (U Type)

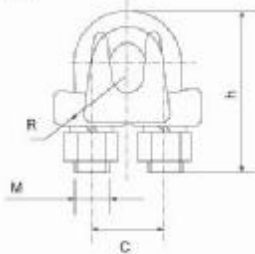


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	C	R	M	h	d		
UL-7	20	15	16	120	16	70	0.65
UL-10	22	17	18	140	18	100	0.92
UL-16	26	19	24	140	22	160	1.64
UL-20	30	22	27	180	24	200	2.90

闭口销为不锈钢件，其余为热镀锌钢制锻件。
The cotter pin is stainless steel, the other parts hot-dip galvanized steel forging.

4. 钢线卡子

Guy Clips

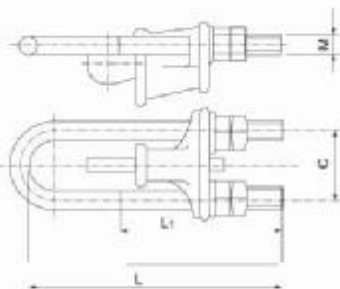


型号 Catalog No.	钢丝绳外径 Steel Wire Dia (mm)	主要尺寸 Dimension (mm)				重量 Weight (kg)
		M	h	R	C	
JK-1	6.6-7.8	10	54	5	22	0.18
JK-2	9.0-11.0	10	72	6	28	0.30
JK-3	12.0-14.0	20	60	7.5	33	0.65

本体为可锻铸铁，其余为钢制件，热镀锌。
The body is malleable iron. The other parts are steel. All ferrous parts are hot-dip galvanized.

5. UT型线夹(可调式)

UT Wedge Clamps(Adjustable Type)



型号 Catalog No.	钢丝绳外径 Steel Wire Dia (mm)	主要尺寸 Dimension (mm)				标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
		C	M	L	L ₁		
NUT-1	6.6-7.8	56	16	350	200	45	2.10
NUT-2	9.0-11.0	62	18	430	250	88	3.20
NUT-3	3.0-14.0	74	22	500	300	143	5.50
NUT-4	5.0-16.0	82	24	580	350	164	7.20

线夹的本体和楔子为可锻铸铁，热镀锌，其余为热镀锌钢制件。
The body and wedge are malleable iron. The other parts are hot-dip galvanized.

连接金具 Link Fitting

连接金具 Link Fitting



心型环
Thimble



ZH型挂环
Eye Links (Type ZH)



Qy牵引板
Towing Plated (Type QY)



UB挂板
Clevis Hinge (Type UB)



PS挂板
Clevis Hinge (Type PS)



U型环
Shackle



PH型延长环
Extensive Link (Type PH)



Y挂环
Clevis-Eye



U型螺丝
U-Bolt



PT调整板
Adjuster Plate (Type PT)

一般概述

在架空电力线路和变电所中,连接金具的作用:一是用连接金具将悬式绝缘子组成串,并用它悬挂在杆塔上;二是用连接金具将直杆塔用的悬垂线夹或非直线杆塔用的耐张线夹与绝缘子串连接起来;其它如拉线杆塔的接金具与杆塔的锚固,也都要用连接金具。

连接金具主要用于架空电力线路或变电所,将导线或避雷线耐张线夹绝缘子通过连接金具相连接。避雷线线夹与杆塔相连。按安装条件的不同,分专用连接金具和通用连接金具两类。专用连接金具指与绝缘子相连的球头挂环和碗头挂板。通用连接金具适用各种情况,按荷重吨位分级,荷重相同的同类金具有互换性,荷重相同,不同种类的连接金具有互连性。

产品型号中字母挂板数字的意义为:

Q-球头挂环, P-平面(平行)接触, W-碗头, S-双联, U-U型, L-联板、拉杆、菱形, Z-直角, Y-延长, B-板, F-方形, J-加强, T-调整。

专用连接金具的球和窝其连接尺寸符合IEC-120(绝缘子串元件的球窝连接尺寸)和GB4056-83(高压线路悬式绝缘子联接结构尺寸)的规定。

General Recommendations

Link fitting are used to link clamps to insulator, or to link insulator and ground wire clamp to tower arms or subjection structures. Link fitting have special type and common type and common type in accordance with mounting condition. The special type includes the ball-eye and socket-clevis linking with insulator. The common type is usually pin connected type. They have different grades in according to the load are exchangeable for the same grade.

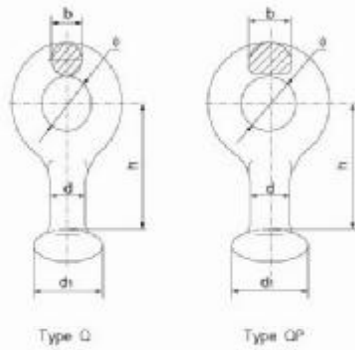
The meanings of letter & Arabic figures in the catalog are shown as follow.

Q-ball eye, P-plane, parallel, W-socket clevis, S-double, U-U type, L-yoke plate, tension rod, rhomb, Z-90°angle, Y-extension, B-plate, F-square, J-strengthen grading ring, T-Adjustmentable.

Dimensions of ball and socket for the special type are in accordance with "dimension of ball and socket coupling of string insulator units" IEC-120 and "Dimension of hanging insulator units for high voltage transmission line" GB 4056-83.

1、球头挂环(Q型、QP型)

Ball Eyes (Type Q & QP)

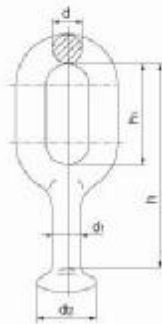


型号 Catalog No.	主要尺寸 Dimension (mm)					连接标记 Designated Size Of Coupling	标称破坏载荷 Rated Failure Load (kg)	重量 Weight (kg)
	d	φ	b	d1	h			
QP-4	12	14	12	22.8	35	14	40	0.1
Q-7	17	22	16	33.3	50	16	70	0.3
QP-7	17	20	16	33.3	50	16	70	0.3
QP-10	17	20	16	33.3	50	16	100	0.3
QP-12	17	24	20	33.3	60	20	120	0.5
QP-12G	17	24	17	33.3	60	16	120	0.4
QP-16	21	26	20	41.0	60	20	160	0.5
QP-16G	21	26	18	41.0	60	20	160	0.5
QP-21	25	30	24	49.0	80	24	210	1.0
QP-21D	21	30	24	41.0	70	20	210	0.9
QP-30	25	39	28	49.0	80	24	300	1.1

热镀锌钢制锻件。
Hot-dip galvanized steel forging.

2、球头挂环(QH型)

Ball Eyes (Type QH)

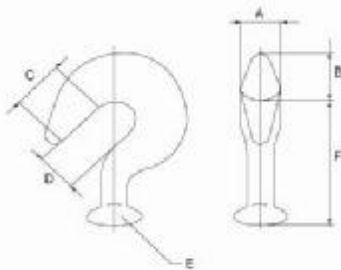


型号 Catalog No.	主要尺寸 Dimension (mm)					连接标记 Designated Size Of Coupling	标称破坏载荷 Rated Failure Load (kg)	重量 Weight (kg)
	d	d1	d2	h	h1			
QH-7	16	17	33.3	114	57	16	70	0.6
QH-10	18	17	33.3	110	60	16	100	1.1
QH-12	19	17	33.3	120	63	16	120	1.3
QH-16	20	21	41.0	155	100	20	160	1.2
QH-21	20	21	41.0	150	100	20	210	1.3
QH-25	24	25	49.0	165	100	24	300	1.8

热镀锌钢制锻件。
Hot-dip galvanized steel forging.

3、球头挂钩

Ball Hooks (Parallel Type)



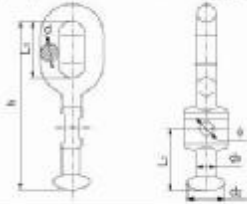
型号 Catalog No.	标称破坏载荷 Rated Failure Load (kN)	主要尺寸 Dimension (mm)						重量 Weight (kg)
		A	B	C	D	E	F	
BH-70	70	25	32	32	25	16	82	0.6
BH-120	120	25	32	32	25	16	82	0.6
BH-160	160	25	34	60	25	20	102	0.9

热镀锌钢制锻件。
Hot-dip galvanized steel forging.



4. 球头挂环(环孔垂直型)

Ball Eyes(Perpendicular Type)

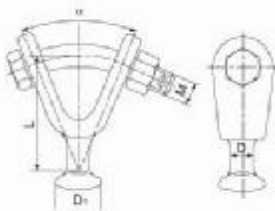


型号 Catalog No.	主要尺寸 Dimension (mm)							连接标记 Designated Size Of Coupling	标称破坏荷载 Rated Failure Load (kg)	重量 Weight (kg)
	h	d	φ	d ₁	d ₂	L ₁	L ₂			
Q-7N	142	16	14	16	33.3	50	42	16	70	1.2
Q-12N	173	18	14	18	33.3	64	56	16	120	1.5

热镀锌钢制件。 Hot-dip galvanized steel.

5. Y型球头

Y Type Ball Eyes

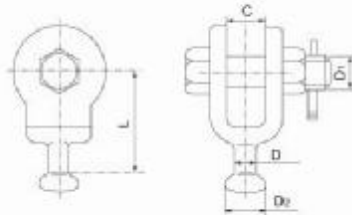


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	α	M	D	D ₁	L		
QY-70V	45°	16	17	33.3	82	70	0.9
QY-16V	45°	22	21	41.0	302	160	2.4

钢制件, 热镀锌。弹簧销为不锈钢件。
Hot-dip galvanized. Steel forging, security clip is stainless steel.

6. U型球头

Ball Clevis(Type U)

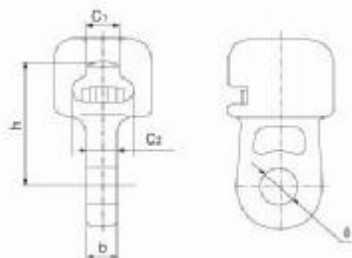


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷载 Rated Failure Load (kg)	重量 Weight (kg)
	C	D ₁	D ₂	D	L		
Q-7U	19	16	33.3	16	75	70	0.9
Q-10U	20	18	33.3	17	80	100	0.7
Q-12U	20	22	33.3	17	75	120	1.0
Q-16U	22	24	41.0	20	80	160	1.1
Q-21U	24	24	41.0	20	85	210	1.5
Q-30U	32	30	49.0	25	120	300	3.2

热镀锌钢制铸件。
Hot-dip galvanized steel forging.

7. 碗头挂板(W型)

Socket Eye(Type W)

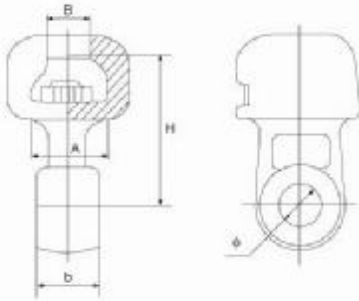


型号 Catalog No.	主要尺寸 Dimension (mm)					连接标记 Designated Size Of Coupling	标称破坏荷载 Rated Failure Load (kg)	重量 Weight (kg)
	b	C ₁	C ₂	h	φ			
W-4	12	12.5	24.5	50	14	14	40	0.60
W-7A	16	19.2	34.5	70	20	16	70	0.80
W-7B	16	19.2	34.5	115	20	16	70	0.92
W1-10	18	19.2	34.5	85	20	16	100	0.90
W1-12	32	19.2	34.5	85	20	16	120	1.1
W-12	20	19.2	34.5	90	24	20	120	1.40
W-30	32	27.5	51.0	110	39	24	300	4.2

碗头挂板为可锻铸铁件或铸钢件, 热镀锌。弹簧销为不锈钢件。
The socket eyes is malleable iron/hot-dip galvanized. Security clip is stainless steel.

8、碗头挂板(W耐磨鼓型)

Socket-clevis(Type W)

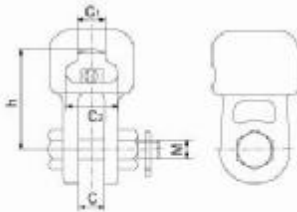


型号 Catalog No.	连接标记 Mark	主要尺寸 Dimension (mm)					标称破坏荷载 Rated Failure Load (kN)
		b	B	A	H	φ	
W-0720	16	20	19.2	34.5	70	20	70
W-0724	16	24	19.2	34.5	70	20	70
W-0728	16	28	19.2	34.5	70	20	70
W-0732	16	32	19.2	34.5	70	20	70
W-1032	16	32	19.2	34.5	70	20	100
W-1045	16	45	19.2	34.5	70	20	100

碗头挂板为可锻铸铁件或铸钢件,热镀锌。弹簧销为不锈钢件。
The socket-clevises is malleable iron or casting steel hot-dip galvanized, security clip is stainless steel.

9、碗头挂板

Socket-clevises

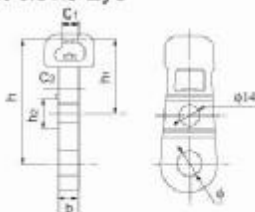


型号 Catalog No.	主要尺寸 Dimension (mm)					连接标记 Designated Size Of Coupling	标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	C	C ₁	C ₂	M	h			
WS-7	18	19.2	34.5	16	70	16	70	1.0
WS-10	20	19.2	34.5	18	85	16	100	1.2
WS-12	24	19.2	34.5	22	85	16	120	1.8
WS-12X	24	19.2	34.5	22	90	16	120	3.10
WS-12A	20	19.2	34.5	22	85	16	120	1.80
WS-16	26	23.0	42.5	24	95	20	160	2.64
WS-21	30	27.5	51.0	27	100	24	200	4.30
WS-21D	30	23.0	42.5	27	100	20	200	4.50
WS-25	34	27.5	51.0	30	110	24	250	6.1
WS-30	36	27.5	51.0	36	110	24	300	5.70
WS-16S	22	23.0	42.5	24	95	20	160	2.7
WS-21S	24	27.5	51.0	24	100	24	210	3.6
WS-32S	32	27.5	51.0	30	110	24	320	4.7
WS-42S	38	32.0	59.0	36	120	28	420	6.0

碗头挂板为可锻铸铁件或铸钢件,热镀锌。弹簧销为不锈钢件,闭口销为不锈钢件,铜铁制件热镀锌。
The socket-clevises is malleable iron or casting steel hot-dip galvanized, security clip is stainless steel.

10、碗头挂板

Socket-clevis Eye



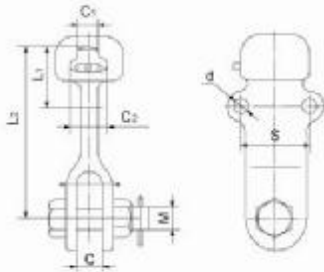
型号 Catalog No.	主要尺寸 Dimension (mm)							连接标记 Designated Size Of Coupling	标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	b	C ₁	C ₂	φ	h	h ₁	h ₂			
WH-12	16	19.2	34.5	24	145	90	27	16	120	1.2

碗头挂板为可锻铸铁件或铸钢件,热镀锌。弹簧销为青铜件或不锈钢件,闭口销为不锈钢件,铜铁制件热镀锌。
The socket-clevis eyes are malleable iron or casting steel, these security clips are bronze or stainless steel, copper pins are stainless ferrous parts are hot-dip galvanized.



11、碗头挂板(WS加长型)

Socket-clevis (Elongated Type WS)

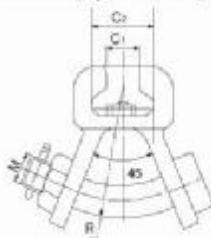


型号 Catalog No.	主要尺寸 Dimension (mm)								标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	L ₁	L ₂	C	C ₁	C ₂	M	S	D		
WS-16A	135.5	195	26	23.0	42.5	24	45	14	160	6.0
WS-H	70	150	22	23.0	42.5	24	40	14	160	3.4
WS-21A	135	195	30	23.0	42.5	27	45	14	160	6.7
WS-21AH	70	150	24	23.0	42.5	24	40	14	210	4.2
WS-21AS	70	200	24	23.0	42.5	24	80	18	210	4.7
WS-32AS	80	200	32	27.5	51.0	30	80	18	320	6.1

碗头挂板为可锻铸铁件或铸钢件, 弹簧销为不锈钢件, 闭口销为不锈钢件, 钢铁制件热镀锌。
The socket-clevis eyes are malleable iron or casting steel, these curity clips is stainless steel, cotter pins are stainless, ferrous parts are hot-dip galvanized.

12、碗头挂板

Socket Clevis (Type WSY)

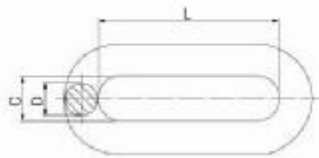


型号 Catalog No.	主要尺寸 Dimension (mm)				连接标记 Designated Size Of Coupling	标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	C ₁	C ₂	M	R			
WSY-21	23.0	42.5	27	100	20	210	4.1
WSY-30	27.5	51.0	30	110	24	300	4.9

碗头挂板为可锻铸铁件或铸钢件, 弹簧销为不锈钢件, 闭口销为不锈钢件, 钢铁制件热镀锌。
The socket-clevis eyes are malleable iron or casting steel, these curity clips is stainless steel, cotter pins are stainless, ferrous parts are hot-dip galvanized.

13、延长环(环体整锻)

Extensive Links (Link Body Whole-forged)

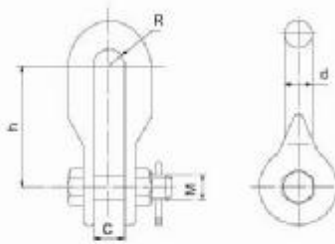


型号 Catalog No.	主要尺寸 Dimension (mm)			标称破坏荷载 Rated Failure Load (kN)	重量 Weight(kg)
	C	D	L		
PH-7	20	16	80	70	0.4
PH-10	22	18	100	100	0.6
PH-12	24	20	120	120	0.9
PH-16	26	22	140	160	1.3
PH-21	30	24	160	200	1.6
PH-25	34	26	160	250	2.0
PH-30	38	30	180	300	3.0

热镀锌钢制件。
Hot-dip galvanized steel.

14、U型挂环

Shackles

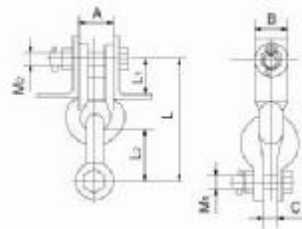


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷载 Rated Failure Load (kN)	重量 Weight(kg)
	C	M	d	h	R		
U-7	20	16	16	80	22	70	0.6
U-10	22	18	18	85	24	100	0.8
U-12	24	22	20	90	30	120	1.0
U-16	26	24	22	95	32	160	1.5
U-20	30	27	24	100	36	200	2.2
U-25	34	30	26	110	40	250	2.79
U-30	38	36	30	130	46	300	3.75
U-40	42	42	36	150	55	400	6.5
U-50	44	42	36	150	55	500	6.99

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

15、加强型U形挂环

Strengthened Shackles

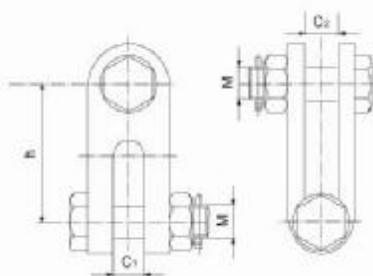


型号 Catalog No.	主要尺寸 Dimension (mm)							标称破坏荷载 Rated Failure Load (kN)	重量 Weight(kg)	
	A	B	C	M ₁	M ₂	L	L ₁			L ₂
U-16J	60	60	30	24	24	195	75	87	160	5.7
U-20J	60	60	30	27	27	230	75	110	200	5.7
U-40J	70	108	44	42	42	323	125	120	400	13.9

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

16、挂板(Z型)

Clevises (Type Z)



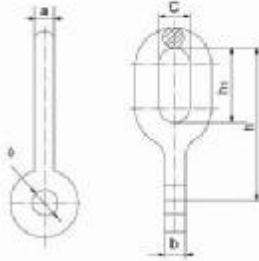
型号 Catalog No.	主要尺寸 Dimension (mm)				标称破坏荷载 Rated Failure Load (kN)	重量 Weight(kg)
	C ₁	C ₂	M	h		
Z-7	18	18	16	80	70	0.6
Z-10	20	20	18	80	100	0.8
Z-12	24	24	22	100	120	1.3
Z-16	26	26	24	100	160	2.5
Z-21	30	30	27	120	210	3.5
Z-25	34	34	30	110	250	4.3
Z-30	38	38	36	120	300	6.0
Z-40	44	44	42	180	400	12.9
Z-50	44	44	42	120	500	8.6

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.



17. 直角挂环(ZH型)

Eye Links (Type ZH)

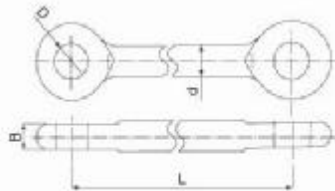


型号 Catalog No.	主要尺寸 Dimension (mm)						标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	a	b	c	h ₁	h	φ		
ZH-7	16	16	24	57	100	20	70	0.9
ZH-10	18	15	24	57	100	20	100	1.1
ZH-12	18	16	22	65	115	24	120	1.1
ZH-16	22	18	26	75	135	26	160	1.2
ZH-21	24	26	32	75	150	30	210	2.3

热镀锌钢制件。
Hot-dip galvanized steel.

18. 拉杆

Extension Rods

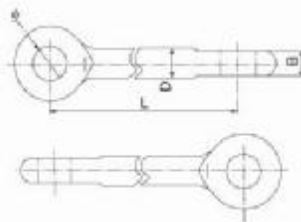


型号 Catalog No.	主要尺寸 Dimension (mm)				标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	d	D	B	L		
YLP-16260	24	26	20	260	160	1.6
YLP-16850	24	26	20	850	160	3.7
YLP-16910	24	26	20	910	160	3.9
YLP-16970	24	26	20	970	160	4.1
YLP-16990	24	26	20	990	160	4.3
YLP-25103	30	33	30	103	250	4.1
YLP-25915	30	33	30	915	250	6.6
YLP-25935	30	33	30	95	250	6.7

热镀锌钢制件。
Hot-dip galvanized steel.

19. 拉杆(YL型)

Extension rods (Type YL)

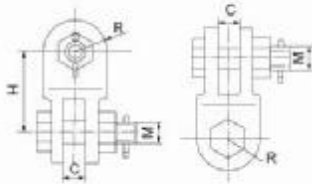


型号 Catalog No.	主要尺寸 Dimension (mm)				标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	D	φ	B	L		
YL-1012	18	20	16	120	100	0.8
YL-1040	18	20	16	400	100	1.1
YL-1050	18	20	16	500	100	1.4
YL-1069	18	20	16	690	100	1.9
YL-10100	20	20	16	1000	100	2.2
YL-1243	24	24	18	430	120	1.6
YL-1643	24	26	20	430	160	1.6
YL-2043	30	30	24	430	200	3.0
YL-2543	30	33	30	430	250	3.5

热镀锌钢制件。
Hot-dip galvanized steel.

20、挂板(Z型)

Clevises (Type Z)

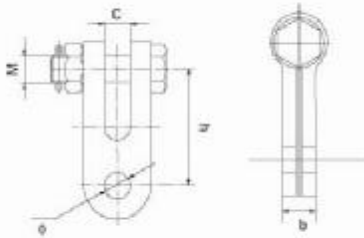


型号 Catalog No.	主要尺寸 Dimension (mm)				标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	C	R	M	H		
Z-25	34	40	30	110	250	2.8
Z-30	38	46	36	135	300	5.4
Z-40	42	50	36	150	400	8.6
Z-60	50	62	48	180	600	19.6

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

21、挂板(ZS型)

Clevis Tongues (Type ZS)

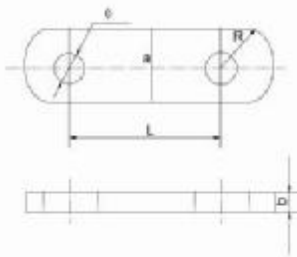


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	C	b	M	φ	h		
ZS-7	18	16	16	20	60	70	0.60
ZS-10	20	18	18	20	80	100	0.70
ZS-12	22	22	22	24	80	120	1.00
ZS-16	26	26	24	26	90	160	1.60
ZS-25	33	30	30	33	120	250	4.33
ZS-30	38	34	36	39	120	300	5.64

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

22、挂板

Straps

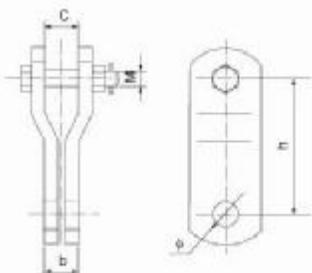


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	a	b	L	φ	R		
PD-7	44	16	80	18	20	70	0.57
PD-16	64	18	100	26	26	160	1.28
PD-2109	72	26	95	30	30	210	2.07
PD-3018	100	32	180	39	45	300	5.90
PD-5020	100	38	200	45	45	500	8.90
PD-60	110	42	160	51	51	600	9.80

热镀锌钢制件。 Hot-dip galvanized steel.

23、挂板

Clevises



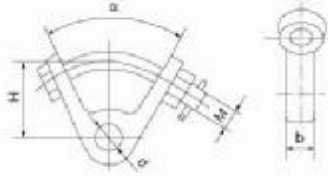
型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	C	b	M	h	φ		
PS-7	18	16	16	90	20	70	0.60
PS-10	20	20	18	90	20	100	0.80
PS-12	20	20	22	95	24	120	1.50
PS-16	26	24	24	155	26	160	2.70
PS-30	38	34	36	150	39	300	5.30

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.



24. 挂板(V型)

Clevis Eyes (Type V)

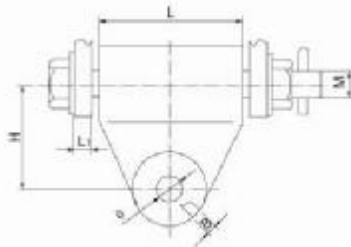


型号 Catalog No	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	d	M	b	H	α		
V-7	18	20	40	75	60°	70	1.8
VD-7	18	20	28	75	60°	70	1.4

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

25. 联塔挂板(LT、EB型)

Tower-connecting Hings (Type LT、EB)

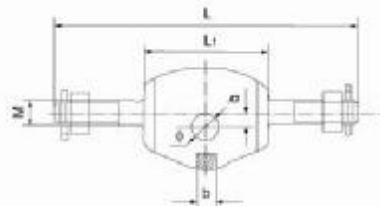


型号 Catalog No	主要尺寸 Dimension (mm)						标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	B	ϕ	H	M	L	L ₁		
LT-16	18	26	100	24	80	20	160	3.5
LT-30	32	39	100	36	80	25	300	6.8
EB-50D	34	39	125	36	116	25	500	13.0
EB-70	38	45	125	42	136	26	700	14.4
EB-70A	38	45	150	64	195	30	700	29.9
EB-70B	42	51	150	64	195	30	700	29.7
EB-70C	38	45	125	42	116	28	700	13.3

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

26. 挂点金具

Twisted Strap

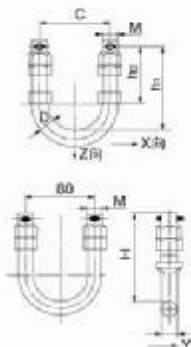


型号 Catalog No	主要尺寸 Dimension (mm)						标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	ϕ	L	L ₁	b	b	M		
GD-12	24	250	112	12	16	22	120	1.8
GD-21	26	250	112	12	20	24	210	2.3
GD-32S	33	264	112	12	28	30	320	3.9
GD-42S	39	264	130	12	32	36	420	4.3
GD-50S	39	270	130	16	32	36	500	4.7

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

27. U形螺丝

U-Bolts

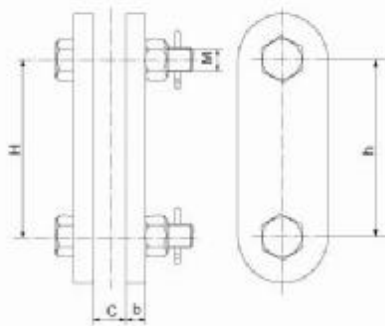


型号 Catalog No	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)			重量 Weight (kg)
	C	M	D	h ₁	h ₂	X向	Y向	Z向	
U-1880	80	18	18	90	60	60	3.5	35	0.8
U-2080	80	20	20	100	70	70	5.3	35	1.1
U-2280	80	22	22	118	90	90	4.9	47	1.3
UJ-1880	80	18	18	105	50	50	7.4	47	0.9
UJ-2080	80	20	20	120	60	60	6.5	57	1.1
UJ-2280	80	22	22	127	65	65	10.8	57	1.4

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

28、平行挂板

Double Straps



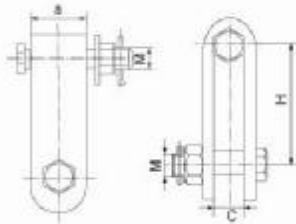
型号 Catalog No.	主要尺寸 Dimension (mm)				标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	b	c	M	h		
P-7	6	18	16	70	70	0.60
P-10	8	20	18	80	100	0.90
P-12	10	24	22	90	120	1.50
P-16	12	26	24	100	160	2.40
P-21	14	30	27	120	210	4.10
P-25	16	34	30	120	250	5.20
P-30	16	38	36	120	300	4.74
P-2118	14	30	27	180	210	5.10
P-2124	14	30	27	240	210	6.00
P-2130	14	30	27	300	210	6.90
P-2136	14	30	27	360	210	7.80
P-2142	14	30	27	420	210	8.70
P-2148	14	30	27	480	210	9.70
P-2154	14	30	27	540	210	10.60
P-3018	16	38	36	180	300	6.10
P-3024	16	38	36	240	300	7.30
P-3030	16	38	36	300	300	8.40
P-3036	16	38	36	360	300	9.10
P-3042	16	38	36	420	300	10.90
P-3048	16	38	36	480	300	12.10
P-3054	16	38	36	540	300	13.30
P-5012	20	40	42	120	500	11.20
P-5024	20	40	42	240	500	14.50
P-50	20	40	42	200	500	12.50
P-16G	12	22	24	90	500	2.70
P-21G	12	24	24	120	500	3.20
P-32G	16	32	30	120	500	4.20
P-42G	18	36	36	150	500	9.30

闭口销为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.



29、挂板(UB型)

Clevises (Type UB)



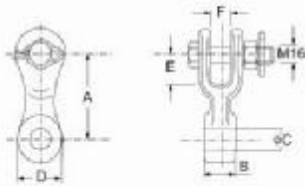
型号 Catalog No	主要尺寸 Dimension (mm)				标称破坏重量 Rated Failure Load (kN)	重量 Weight (kg)
	c	M	h	a		
UB-7	18	16	70	45	70	0.8
UB-10	20	18	80	45	100	1.1
UB-12	24	22	100	60	120	2.82
UB-16	26	24	100	60	160	2.89
UB-16G	22	24	90	60	160	2.40
UB-20T	30	27	120	60	200	3.90
UB-21	30	27	120	70	210	3.80
UB-25T	34	30	150	60	250	5.70
UB-30T	38	36	150	60	300	7.00
UB-40T	44	42	150	80	400	8.20
UB-60T	50	48	180	70	600	15.55

闭口销为不锈钢件,其余为热镀锌钢制作。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

F

30、挂环

Clevis-eyes

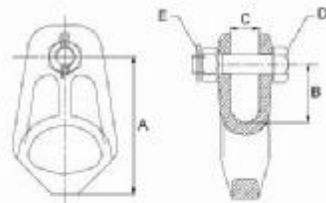


型号 Type	主要尺寸 Main Dimension (mm)						厚度 (mm)	破坏强度 (kN)
	A	B	C	D	E	F		
YC-15	79	13	18	38	38	21	0.5	70
YC-20	79	19	20	38	38	21	0.5	90
YC-25	79	27	21	38	38	21	0.8	110
YC-25M	79	54	21	38	38	21	0.8	110

热镀锌钢制作。 Hot-dip galvanized steel.

31、心型环

Thimble

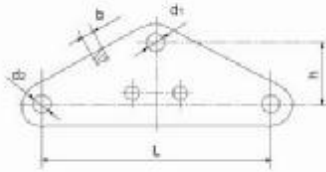


型号 Type	破坏强度 Breaking Strength (kN)	重量 Weight (kg)	主要尺寸 Main Dimension (mm)					材料 Material
			A	B	C	D	E	
Y-7A	70	0.9	107	48	24	M16	不锈钢 Stainless steel	
Y-12A	120	1.3	128	60	25	M18	不锈钢 Stainless steel	
Y-16A	160	1.9	137	70	30	M22	不锈钢 Stainless steel	

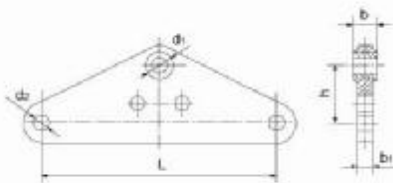
本体为可锻铁件或铸钢件,闭口销为不锈钢件,其余为钢制件钢铁件均镀锌。
The body is malleable iron or cast steel, cotter pins are stainless steel, ferrous parts are hot-dip galvanized.

32、联板

Yoke Plates



型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	b	h	d ₁	d ₂	L		
L-1040	16	70	20	18	400	100	4.5
L-1050	16	130	20	18	500	100	7.1
L-1060	16	100	20	18	600	100	9.8
L-1240	16	70	24	18	400	120	4.7
L-1640	18	100	26	20	400	160	5.9

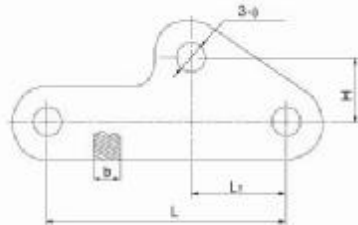


型号 Catalog No.	主要尺寸 Dimension (mm)						标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	b	b ₁	h	d ₁	d ₂	L		
L-2055	26	18	200	30	26	500	200	11.4
L-2070	26	18	300	30	20	700	200	18.2
L-2140	26	16	100	30	20	400	210	7.0
L-2540	30	16	110	33	24	400	250	9.0
L-3040	32	18	110	39	26	400	300	10.0
L-1660F	18	18	120	26	20	600	160	9.7
L-3060F	32	22	120	39	26	600	300	14.2

热镀锌钢制件。 Hot-dip galvanized steel.

33、牵引板(QY型)

Towing Plates (Type QY)

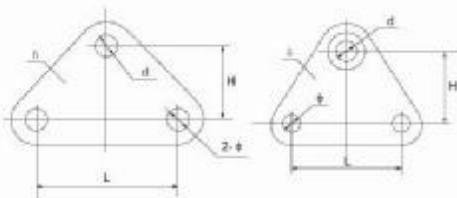


型号 Catalog No.	主要尺寸 Dimension (mm)					标称破坏荷重 Rated Failure Load (kN)	重量 Weight (kg)
	b	φ	H	L ₁	L		
QY-7	16	18	22	38	100	70	0.80
QY-10	16	20	25	42	120	100	1.10
QY-12	16	24	30	52	150	120	1.90
QY-16	18	26	35	55	180	160	2.60
QY-20	26	29	45	75	200	200	4.70
QY-21S	20	26	45	75	200	210	3.60
QY-25G	22	33	57	95	220	250	3.0
QY-32G	28	33	57	95	240	320	6.23
QY-30	32	39	57	95	240	300	7.30
QY-42G	32	39	70	100	260	420	6.5
QY-5026	38	45	75	120	260	500	13.00
QY-5036	38	45	70	120	360	500	13.40

热镀锌钢制件。 Hot-dip galvanized steel.

34、联板(LV型)

Yoke Plates (Type LV)



型号 Catalog No.	主要尺寸 Dimension (mm)						标称破坏荷重 Rated Failure Load (kN)
	b	B	H	d	φ	L	
LV-0712	16	18	60	18	20	120	70
LV-1020	16	20	60	20	20	200	100
LV-1214	16	22	90	24	20	140	120
LV-2115	18	26	100	30	24	150	210
LV-3018	18	32	120	30	26	180	300



35、调整板(PT型)

Adjuster Plates (Type PT)

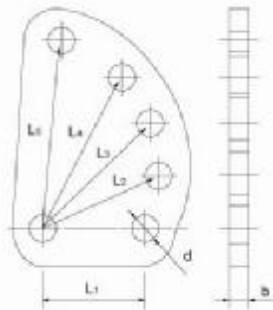


型号 Catalog No.	主要尺寸 Dimension (mm)							标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	b	C	L ₁	L ₂	φ	M	可调尺寸		
PT-7	16	18	45	30	18	16	225-345	70	2.00
PT-10	16	20	50	40	20	18	250-390	100	2.90
PT-12	16	24	60	45	24	22	300-465	120	5.20
PT-16	18	26	65	50	26	24	325-505	160	7.00
PT-20	24	30	70	60	29	27	350-550	200	10.14
PT-30	32	38	80	70	39	36	400-630	300	13.90
PT-50	38	44	90	80	45	42	360-710	500	30.60

闭口端为不锈钢件,其余为热镀锌钢制件。
The cotter pins are stainless steel, the other parts are hot-dip galvanized steel.

36、调整板(DB型)

Adjuster Plates (Type DB)



型号 Catalog No.	主要尺寸 Dimension (mm)							标称破坏荷载 Rated Failure Load (kN)	重量 Weight (kg)
	d	L ₁	L ₂	L ₃	L ₄	L ₅	b		
DB-7	18	70	95	120	145	170	16	70	1.70
DB-10	20	80	110	140	170	200	16	100	2.70
DB-12	24	100	135	170	205	240	16	120	3.20
DB-16	26	110	125	140	155	170	18	160	4.10
DB-20	30	120	135	150	165	180	26	200	7.40
DB-25	33	120	140	160	180	200	30	250	11.50
DB-30	39	120	140	160	180	200	32	300	12.50
DB-40	51	135	160	185	210	235	42	600	21.60
DB-5024	45	140	165	190	215	240	38	500	18.50
DB-5032	45	140	185	230	275	320	38	500	14.40
DB-21G	26	120	135	150	165	180	20	310	6.20
DB-32G	33	120	140	160	180	200	38	320	9.20

热镀锌钢制件。
Hot-dip galvanized steel.

37、联板

Yoke Plate

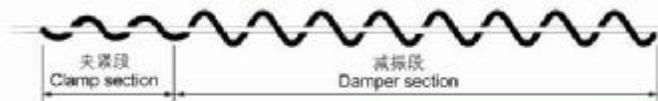


型号 Type	破坏强度 Breaking Strength (kN)	主要尺寸 Main Dimension (mm)			
		A	B	C	D
LB-25	120	305	45	17.5	8
LB-40	120	400	45	17.5	8

热镀锌钢制件。
Hot-dip galvanized steel.

其它附件 Other Fitting

螺旋减振器 Spiral Vibration Dampers



一般概述

螺旋减振器是一个干涉型减振装置，利用其减振部分对风力摆动产生阻尼作用，消耗和减弱了光缆运行时在层流风的作用下产生的振动能量，防止金具及光缆的破坏。

技术特点

采用特殊材料、特殊工艺制作，研制出具有自己的知识产权的耐电腐蚀螺旋减振器

经过1000小时盐雾试验和其他试验后证明，FLn型螺旋减振器具有抗电腐蚀极强，高强度、耐老化、高弹性，减振效果显著等特点。

应用范围

适用于各种规格的ADSS光缆。

General Recommendations

Spiral vibration dampers belongs to the kind of interference damper whose absorb part can reduce the vibration caused by laminar flow, therefore, it can protect fittings and cables from damage.

Technical characteristics

Special Spiral vibration damper is our patented product, which possesses the advantage not only what normal ones have but also of strong power against electricity corrosion and long life as same as ADSS.

Simple structure, convenient installation and free of maintenance.

Applications

It is suitable for ADSS of every specification.

Consult ZTT for recommendations on the number of damper required per span.

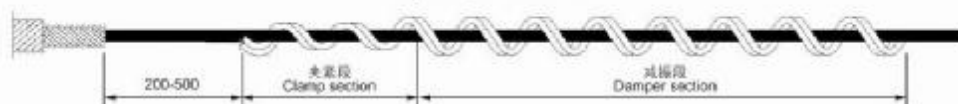
技术参数表

Parameter Table Of Avibra Vibration Dampers

产品型号 Specification	适用缆径范围 Clamping Range (mm)	D (mm)	L (mm)	重量 Weight (KG)
FLn-10/Flp-10	φ 9.1~φ 11.0	300	1500	0.5
FLn-12/Flp-12	φ 11.1~φ 13.0	300	1500	0.5
FLn-14/Flp-14	φ 13.1~φ 15.0	300	1500	0.5
FLn-16/Flp-16	φ 15.1~φ 17.0	300	1500	0.5
FLn-18/Flp-18	φ 17.1~φ 19.1	300	1500	0.5
FLn-20/Flp-20	φ 19.1~φ 21.0	300	1500	0.5



单根螺旋减振器安装示意图
Single damper installation



双根螺旋减振器安装示意图
Double dampers installation



防晕环 ADSS-Corona Coil



一般概述

ADSS光缆金具绞丝末端电场强度集中，易于引起光缆表面干带电弧，导致护套电腐蚀。如果该电场强度超过空气游离强度，绞丝端部将产生电晕放电，造成光缆外护套的腐蚀。为此，我公司特别研制防晕环，极大地改善了预绞丝金具末端电场，有效地抑制了电腐蚀。

须知

在订货时应注明是耐张线夹还是悬垂线夹使用。
一般每套耐张线夹安装一套，每套悬垂线夹安装两套，防晕环只为预绞式耐张悬垂设计，不可用于其他金具产品。

General Recommendations

ADSS anti-electrical stress coils are intended to reduce electricity at the ends of metal rods of dead-ends and suspensions applied on ADSS cables installed in high voltage electrical fields. They are made from a light weight special multiplex material and are designed to suppress electrical arcing at the ends of metal rods which can occur on some lines and may damage the plastic jacket of ADSS cable.

Consideration

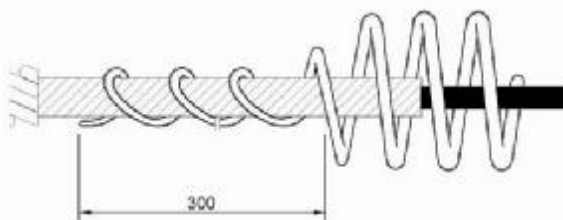
Notice us suspension clamp or tension clamp is used with the coil when they are ordered.

One unit is required at deadend locations and two at suspension installations. ADSS-corona coils are designed and manufactured to be used only with dielectric dead-ends or suspensions manufactured by preformed line products. They should not be used with other dead-end or suspension devices.

防晕环规格型号参数表

Parameter Table Of Avibra Vibration Dampers

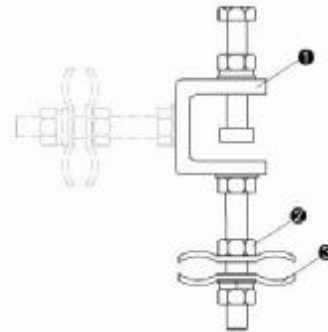
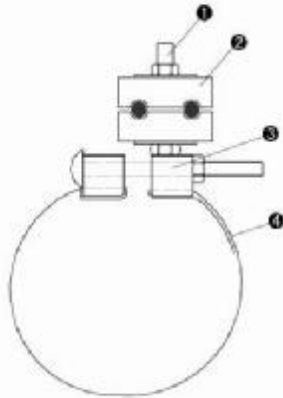
产品型号 Specification	适用缆径范围 Clamping Range (mm)	D (mm)	L (mm)	重量 Weight (KG)
FYH-10	9.0-11.0	250	360	0.2
FYH-12	11.1-13.0	250	360	0.2
FYH-14	13.1-15.0	250	360	0.2
FYH-16	15.1-17.0	250	360	0.2
FYH-18	17.1-19.0	250 </td <td>360</td> <td>0.2</td>	360	0.2
FYH-20	19.1-21.0	250	360	0.2
FYH-22	21.1-23.0	250	360	0.2



防晕环的安装示意图
Installation of the coil

光缆用引下线夹

Download Clamps For ADSS Or OPGW



- | | |
|-----------------------------------|---|
| 1、双头螺栓:热镀锌件 | 1. Double head bolt |
| 2、引下夹块:合成橡胶(ADSS用)
热镀锌件(OPGW用) | 2. Cable clamp:
EPDM(ADSS)
Galvanized steel(OPGW) |
| 3、抱箍卡头:铝合金 | 3. Pole hoop clamp
Galvanized steel(OPGW) |
| 4、钢带抱箍:不锈钢,适用于
直径小于500mm的杆塔 | 4. Stainless steel tape |

- | | |
|-----------------------------------|---|
| 1、双塔卡头:板厚10mm的热镀锌
钢制件 | 1. Tower |
| 2、双头螺栓:热镀锌件 | 2. Double head bolt |
| 3、引下夹块:合成橡胶(ADSS用)
热镀锌件(OPGW用) | 3. Cable clamp:
EPDM(ADSS)
Galvanized steel(OPGW) |

一般概述

引下线夹的作用主要是将从杆塔上引下或引上的光缆固定到杆塔上,防止其晃动,避免光缆护套磨损。

应用范围

ADSS光缆线路的首、末端杆塔及接续杆塔处,其他需要固定光缆的地方也可以用。

基本配置

一般每1.5米配一套。

General Recommendations

The main function of down lead clamp is to fasten cables to the poles in order to protect them from shake and abrasion.

Applications

Used in starting poles/towers, terminal poles/towers, connecting poles/towers and any other places with the need of fastening cables.

Basic configuration

Generally one set every 1.5 m.

选配技术参数表

Technical Parameter For Selection

产品型号 Specification	结构类型 Structure Pattern	适用缆径 Uitable FOC Diameter	备注 Remarks
AYT **	热镀锌 Hot-dip galvanized	9.0-20.0	塔用 For towers
AYG **	不锈钢带型 Strainless steel type	9.0-20.0	杆用 For poles
OYG **	不锈钢带型 Strainless steel type	9.0-20.0	塔用 For towers
OYT **	热镀锌 Hot-dip galvanized	9.0-20.0	杆用 For poles

注: **代表光缆外径 Remark: **-FOC Dia



杆用固定夹具 Fastened Fitting For Pole

用于耐张及悬垂线夹的紧固夹具型式(For Strain Clamps And Suspension Clamps)



适用于耐张、悬垂线夹与杆的连接, 抗腐、防锈性能好, 使用寿命长。

Suitable for the connection of strain clamps and suspension clamp with poles Outstanding quality against corrosion and long operation life.

常见的规格型号

Common Specification

产品型号 Specification	适用范围 Suitable Range	材料 Raw Material	破坏载荷 Breaking Force (KN)
TGX 069 165	用于安装位置 ϕ 165 的水泥杆 Used in Cement Pole of ϕ 160	A3钢 A3 Steel	69
TGX 069 190	用于安装位置 ϕ 190 的水泥杆 Used in Cement Pole of ϕ 190	A3钢 A3 Steel	69
TGX 069 210	用于安装位置 ϕ 210 的水泥杆 Used in Cement Pole of ϕ 210	A3钢 A3 Steel	69
TGX 069 230	用于安装位置 ϕ 230 的水泥杆 Used in Cement Pole of ϕ 230	A3钢 A3 Steel	69
TGX 069 260	用于 ϕ 260 的等杆径 Used in Cement Pole of ϕ 260	A3钢 A3 Steel	69
TGX 069 300	用于 ϕ 300 的等杆径 Used in Cement Pole of ϕ 300	A3钢 A3 Steel	69
TGX 069 400	用于 ϕ 400 的等杆径 Used in Cement Pole of ϕ 400	A3钢 A3 Steel	69

G

用于固定引下夹具、接头盒、余缆架的紧固夹具型式(Fastened Fittings for Fixing Joint Boxes And Cable Trays)



适用于余缆架、接头盒与电线杆的连接。

该线夹同用于耐张及悬垂线夹用抱箍结构相似, 性能相近。

Suitable for the connection of cable trays and joint boxes with poles.

Similar functions and structure to the fastened fittings for suspension clamps.

常见的规格型号

Common Specification

产品型号 Specification	适用范围 Suitable Range	材料 Raw Material	破坏载荷 Breaking Force (KN)
TGJ 030 165	用于安装位置 ϕ 165 的水泥杆 Used in Cement Pole of ϕ 160	A3钢 A3 Steel	30
TGJ 030 190	用于安装位置 ϕ 190 的水泥杆 Used in Cement Pole of ϕ 190	A3钢 A3 Steel	30
TGJ 030 210	用于安装位置 ϕ 210 的水泥杆 Used in Cement Pole of ϕ 210	A3钢 A3 Steel	30
TGJ 030 230	用于安装位置 ϕ 230 的水泥杆 Used in Cement Pole of ϕ 230	A3钢 A3 Steel	30
TGJ 030 260	用于 ϕ 260 的等杆径 Used in Cement Pole of ϕ 260	A3钢 A3 Steel	30
TGJ 030 300	用于 ϕ 300 的等杆径 Used in Cement Pole of ϕ 300	A3钢 A3 Steel	30
TGJ 030 400	用于 ϕ 400 的等杆径 Used in Cement Pole of ϕ 400	A3钢 A3 Steel	30

塔用固定夹具 Fastened Fittings For Tower



直线塔用紧固件(TTZX型)
Fastened clamp for straight tower



接线盒、余缆架塔用紧固件(TTJG型)
Fastened clamp for joint box and cable tray



转角塔用紧固件(TTZJ型)
Fastened clamp for corner tower

我们根据光缆的架设塔型及主材尺寸设计了适合于标准塔型的系列紧固夹具。

We design series of clamps for standard towers according to actual installation conditions and primary material size.

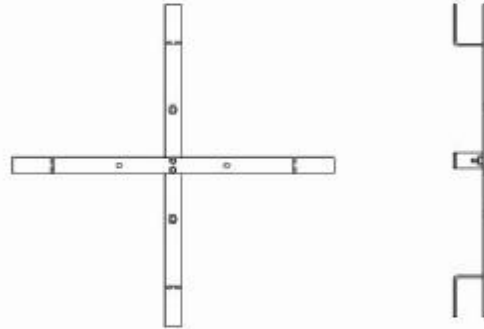
选配技术参数表

Technical Parameter For Selection

塔型 Tower Type	产品型号 Specification	适用范围 Suitable Range	材料 Raw Material	破坏载荷 Breaking Force (KN)
直线塔 Straight Tower	TTZX 069 080	用于光缆挂点位置主材尺寸 $\leq 80\text{mm}$ Dimension of Linking Part $\leq 80\text{mm}$	A3钢 A3 Steel	69
	TTZX 069 100	用于光缆挂点位置主材尺寸 $81 \sim 100\text{mm}$ Dimension of Linking Part $81 \sim 100\text{mm}$	A3钢 A3 Steel	69
	TTZX 069 125	用于光缆挂点位置主材尺寸 $101 \sim 125\text{mm}$ Dimension of Linking Part $101 \sim 125\text{mm}$	A3钢 A3 Steel	69
	TTZX 069 145	用于光缆挂点位置主材尺寸 $126 \sim 145\text{mm}$ Dimension of Linking Part $126 \sim 145\text{mm}$	A3钢 A3 Steel	69
	TTZX 069 165	用于光缆挂点位置主材尺寸 $146 \sim 165\text{mm}$ Dimension of Linking Part $146 \sim 165\text{mm}$	A3钢 A3 Steel	69
	TTZX 069 200	用于光缆挂点位置主材尺寸 $166 \sim 200\text{mm}$ Dimension of Linking Part $166 \sim 200\text{mm}$	A3钢 A3 Steel	69
转角塔 Corner Tower	TTZJ 098 100	用于光缆挂点位置主材尺寸 $\leq 80\text{mm}$ Dimension of Linking Part $\leq 80\text{mm}$	A3钢 A3 Steel	98
	TTZJ 098 125	用于光缆挂点位置主材尺寸 $101 \sim 125\text{mm}$ Dimension of Linking Part $101 \sim 125\text{mm}$	A3钢 A3 Steel	98
	TTZJ 098 145	用于光缆挂点位置主材尺寸 $126 \sim 145\text{mm}$ Dimension of Linking Part $126 \sim 145\text{mm}$	A3钢 A3 Steel	98
	TTZJ 098 165	用于光缆挂点位置主材尺寸 $146 \sim 165\text{mm}$ Dimension of Linking Part $146 \sim 165\text{mm}$	A3钢 A3 Steel	98
	TTZJ 098 200	用于光缆挂点位置主材尺寸 $166 \sim 200\text{mm}$ Dimension of Linking Part $166 \sim 200\text{mm}$	A3钢 A3 Steel	98
塔 Tower	JTJG 030 075	用于光缆挂点位置主材尺寸 $56 \sim 75\text{mm}$ Dimension of Linking Part $56 \sim 75\text{mm}$	A3钢 A3 Steel	30
	JJG 030 075	用于光缆挂点位置主材尺寸 $80 \sim 100\text{mm}$ Dimension of Linking Part $80 \sim 100\text{mm}$	A3钢 A3 Steel	30



光缆用余缆架 Cable Tray For ADSS Or OPGW



一般概述

余缆架是用于杆塔上盘放富余的光缆，与光缆接头盒配套使用。通常每设一个接头盒配一余缆架。

General Recommendations

Cable tray is used to store surplus cables and used together with joint boxes. Generally one tray needs one joint box.

须知

余缆架有塔用和杆用之分，如订杆用时需要提供悬挂点的直径。

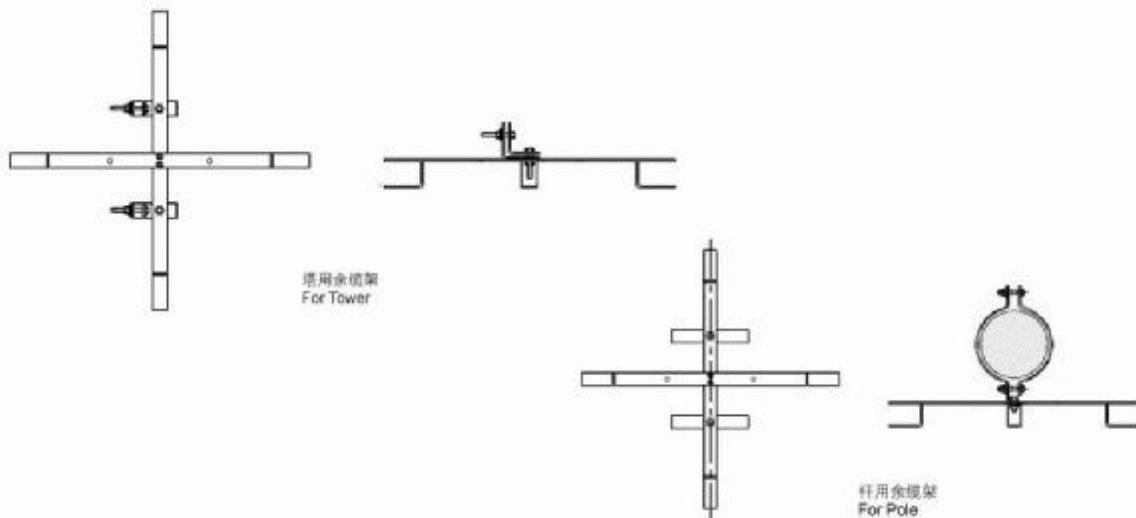
Consideration

We can also supply cable tray with house.

余缆架规格型号

Specification Of Cable Tray

产品型号 Specification	D (mm)	L (mm)	重量 Weight (KG)	备注 Remark
AYLJ-T	300	800	/	塔用 For Tower
AYLJ-G	300	800	/	杆用 For Pole
OYLJ-T	300	800	/	塔用 For Tower
OYLJ-G	300	800	/	杆用 For Pole



OPGW/ADSS光缆PTK接头盒 Joint Box For OPGW/ADSS (Type PTK)



应用

直通或分歧连接，具有一进一出、一进二出、二进二出功能。

特点

外壳采用高刚性铝合金材质；
连接部件采用优质不锈钢材料；
固定部分选用优质铸钢材料；
可多次重复使用，便于复接、扩容；
可在铁塔或水泥杆上固定；
机械强度高，密封性能好，耐腐蚀性强。

技术指标

光纤附加损耗： $< 0.01\text{dB}$
光纤曲率半径： $\geq 40\text{mm}$
盘留光纤长度： $\geq 1.6\text{m}$
拉侧压力： $\geq 2000\text{N}/100\text{mm}$
适用温度： $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

说明

PTK接线盒分塔用和杆用两种，在定杆用接线盒时需要注明安装点的杆径的尺寸。

Applications

The main function of down lead clamp is to fasten cables to the poles in order to protect them from shake and abrasion.

Characteristics

Outer shell is made of high density AL-alloy;
Jointing parts are made of high quality stainless steel;
Fixing parts are made of high quality cast steel;
Can be reused,easy to rejoin and expand capacity;
Can be installed on iron tower or cement pole.

Technical Specifications

Fiber additional attenuation: $< 0.01\text{dB}$
Fiber bending radius: $\geq 40\text{mm}$
Retaining fiber length: $\geq 1.6\text{m}$
Tensile and resistance: $\geq 2000\text{N}/100\text{mm}$
Environment temperature: $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Remark

This Joint Box can be used on tower(TYPE PTK ** T) or pole(PTK ** T) ,if you choose the type of PTK ** T, please tell me the dimension of pole where installed.



铝包钢绞线

AS Stranded Conductors

JLB14的结构和近似性能 Construction And Approximate Properties

标称 截面 mm ²	结构 根数/直径 n/mm	计算截面mm ²			外径 mm	直流电阻 不大于 Ω/km	计算 拉断力 KN	计算 质量 kg/km	交货长度 不小于 m
		铝	钢	总					
30	7/2.30	3.78	25.30	29.08	6.90	4.290	46.23	210.4	2500
35	7/2.50	4.47	29.89	34.36	7.50	3.631	54.63	248.5	2500
40	7/2.75	5.41	36.17	41.58	8.25	3.001	66.11	300.7	2000
50	7/3.00	6.43	43.05	49.48	9.00	2.521	78.67	357.9	1500
55	7/3.20	7.32	48.98	56.30	9.60	2.216	85.58	407.2	1500
65	7/3.50	8.76	58.59	67.35	10.50	1.852	102.37	487.2	1500
70	7/3.60	9.26	61.99	71.25	10.80	1.751	103.31	515.4	1500
80	7/3.80	10.32	69.07	79.39	11.40	1.572	115.11	574.3	1500
95	7/4.16	12.37	82.77	95.14	12.48	1.311	133.20	688.2	1500
80	19/2.32	10.44	69.88	80.32	11.60	1.561	127.71	583.8	2000
100	19/2.60	13.11	87.77	100.88	13.00	1.242	160.40	733.22	2000
120	19/2.85	15.76	105.45	121.21	14.25	1.034	192.72	881.0	2000
150	19/3.15	19.25	128.82	148.07	15.75	0.847	225.07	1076.2	1500
185	19/3.50	23.76	159.04	182.80	17.50	0.686	277.85	1328.7	1500
210	19/3.75	27.28	182.57	209.85	18.75	0.597	304.82	1525.3	1250
240	19/4.00	31.04	207.72	238.76	20.00	0.525	334.26	1735.4	1250
300	37/3.20	38.68	258.89	297.57	22.40	0.422	452.30	2168.0	1500
400	37/3.70	51.72	346.11	397.83	25.90	0.316	576.85	2898.5	1250
500	37/4.16	65.38	437.52	502.90	29.12	0.250	704.06	3664.0	1000
630	61/3.63	82.07	549.23	631.30	32.67	0.199	916.38	4606.2	800

铝绞线(GB1179-83)

All Aluminium Conductors(AAC)

技术条件 Specifications

标称 面积 mm ²	结构 根数/直径 mm	计算 截面 mm ²	外径 mm	20℃直流 电阻不大于 Ω/km	计算 拉断力 N	计算 质量 kg/km	交货长度 不小于 m
16	7/1.70	15.89	5.10	1.802	2840	43.5	4000
25	7/2.15	58.41	6.45	1.127	4355	69.6	3000
35	7/2.50	34.36	7.50	0.8332	5760	94.1	2000
50	7/3.00	49.48	9.00	0.5786	7930	135.5	1500
70	7/3.60	71.25	10.80	0.4018	10930	195.1	1250
95	7/4.16	95.14	12.48	0.3009	14450	260.5	1000
120	19/2.85	121.21	14.25	0.2373	19420	333.5	1500
150	19/3.15	148.07	15.75	0.1943	23310	407.4	1250
185	19/3.50	182.80	17.50	0.1574	28440	503.0	1000
210	19/3.75	209.85	18.75	0.1371	32260	577.4	1000
240	19/4.00	238.76	20.00	0.1205	36260	656.9	1000
300	37/3.20	297.57	22.40	0.09689	46850	820.4	1000
400	37/3.70	397.83	25.90	0.07247	61150	1097	1000
500	37/4.16	502.90	29.12	0.05733	76370	1387	1000
630	61/3.63	631.30	32.67	0.04577	91940	1744	800
800	61/4.10	805.36	36.90	0.03588	115900	2225	800

铝包钢芯铝绞线

ACSR/AS

JL/LB14高强度铝包钢芯铝绞线的产品参数 Parameter Of High Strength ACS Conductors

标称 截面 mm ²	结构 根数/直径 n/mm		计算 截面mm ²			外径 mm	20℃最大 直流电阻 Ω/km	计算 拉断力 KN	计算 质量 kg/km	交货长度 不小于 m
	铝	铝包钢	铝	铝包钢	总计					
16/3	6/1.85	1/1.85	16.13	2.69	18.82	5.55	1.7113	6777	63.5	3000
25/4	6/2.32	1/2.32	25.36	4.23	29.59	6.96	1.0883	10402	99.8	3000
35/6	6/2.72	1/2.72	34.86	5.81	40.67	8.16	0.7923	14118	137.1	3000
50/8	6/3.20	1/3.20	48.25	8.04	56.29	9.60	0.5726	18815	189.8	2000
50/30	12/2.32	7/2.32	50.73	29.59	80.32	11.60	0.5012	50600	352.3	2000
70/10	6/3.80	1/3.80	68.05	11.34	79.39	11.40	0.4059	25403	267.7	2000
70/40	12/2.72	7/2.72	69.73	40.67	110.40	13.60	0.4063	69199	484.2	2000
95/15	26/2.15	7/1.67	94.39	15.33	109.72	13.61	0.2946	38605	370.7	2000
95/20	7/4.16	7/1.85	95.14	18.82	113.96	13.87	0.2888	41759	396.5	2000
95/55	12/3.20	7/3.20	96.51	56.30	152.81	16.00	0.2637	91929	670.1	2000
120/7	18/2.90	1/2.90	118.89	6.61	125.50	14.50	0.2389	29531	374.9	2000
120/20	26/2.38	7/1.85	115.67	18.83	134.49	15.07	0.2404	46793	454.5	2000
120/25	7/4.72	7/2.10	122.48	24.25	146.73	15.74	0.2243	53789	511.1	2000
120/70	12/3.60	7/3.60	122.15	71.25	193.40	18.00	0.2084	110744	848.7	2000
150/8	18/3.20	1/3.25	144.76	8.20	152.82	16.00	0.1964	34955	457.8	2000
150/20	24/2.78	7/1.85	145.68	18.82	164.50	16.67	0.1923	51302	537.0	2000
150/25	26/2.70	7/2.10	148.86	24.25	173.11	17.10	0.1869	59499	583.1	2000
150/35	30/2.50	7/2.50	147.26	34.36	181.62	17.50	0.1861	74218	653.6	2000
185/10	18/3.60	1/3.60	183.22	10.18	193.40	18.00	0.1551	42346	576.6	2000
185/25	24/3.15	7/2.10	187.04	24.25	211.29	18.90	0.1498	65054	692.9	2000
185/30	26/2.98	7/2.32	181.34	29.59	210.93	18.88	0.1535	72550	712.8	2000
185/45	30/2.80	7/2.80	184.73	43.10	227.83	19.60	0.1484	92175	809.9	2000
210/10	18/3.80	1/3.80	204.14	11.34	215.48	19.00	0.1393	47178	643.1	2000
210/25	24/3.33	7/2.22	209.02	27.10	236.12	19.98	0.1340	72699	771.1	2000
210/35	26/3.22	7/2.50	211.73	34.36	246.09	20.38	0.1315	83383	830.9	2000
210/50	30/2.98	7/2.98	209.32	48.82	258.06	20.85	0.1318	104407	927.7	2000
240/30	24/3.60	7/2.40	244.20	31.67	275.96	21.60	0.1148	83727	901.1	2000
240/40	26/3.42	7/2.66	238.85	38.90	277.75	21.66	0.1164	94259	938.9	2000
240/55	30/3.20	7/3.20	241.27	56.30	297.57	22.40	0.1137	115815	1070.2	2000
300/15	42/3.00	7/1.67	296.88	15.33	312.21	23.01	0.0972	72085	929.8	2000
300/20	45/2.93	7/1.95	303.42	20.91	324.33	23.43	0.0937	81065	987.8	2000
300/25	48/2.85	7/2.22	306.21	27.10	333.31	23.76	0.0924	90267	1040.4	2000
300/40	24/3.99	7/2.66	300.09	38.90	338.99	23.94	0.0731	102863	1106.9	2000
300/50	26/3.82	7/2.98	299.54	48.82	348.36	23.26	0.0930	116763	1175.6	2000
300/70	30/3.60	7/3.60	305.36	71.25	376.61	25.20	0.0898	140058	1355.1	2000
400/20	42/3.51	7/1.95	406.40	20.91	427.31	26.91	0.0702	94507	1272.6	1500
400/25	45/3.33	7/2.22	391.91	27.10	419.01	26.64	0.0725	102876	1276.8	1500
400/35	48/3.22	7/2.50	390.88	34.36	425.24	26.82	0.0724	112943	1326.3	1500
400/50	54/3.07	7/3.07	399.73	51.82	451.55	27.63	0.0703	135912	1476.7	1500
400/65	26/4.42	7/3.44	398.94	65.06	464.00	28.00	0.0699	151661	1568.2	1500
400/95	30/4.16	19/2.50	407.75	93.27	501.02	29.14	0.0673	196751	1797.9	1500
500/35	45/3.75	7/2.50	497.01	34.36	531.37	30.00	0.0572	127969	1619.1	1500
500/45	48/3.60	7/2.80	488.58	43.10	531.68	30.00	0.0579	138944	1659.0	1500
500/65	54/3.44	7/3.44	501.88	65.06	566.94	30.96	0.0559	170641	1853.3	1500
630/45	45/4.20	7/2.80	623.45	43.10	666.55	33.60	0.0456	160523	2030.6	1200
630/55	48/4.12	7/3.20	639.92	56.30	696.22	34.32	0.0442	178392	2171.4	1200
630/80	54/3.87	19/2.32	653.19	80.32	715.51	34.82	0.0441	217762	2339.9	1200
800/55	45/4.80	7/3.20	814.30	56.30	870.60	38.40	0.0349	206293	2653.2	1000
800/70	48/4.63	7/3.60	808.15	71.25	879.40	38.58	0.0351	220504	2739.0	1000
800/100	54/4.33	19/2.60	795.17	100.88	896.05	38.98	0.0354	269468	2919.2	1000



钢芯铝绞线 (GB1179-83)

Aluminium Conductors, Steel-reinforced (ACSR)

技术条件 Specifications

标称 截面 mm ²	结构 根数/直径 n/mm		计算 截面mm ²			外径 mm	20℃最大 直流电阻 Ω/km	计算 拉断力 KN	计算 质量 kg/km	交货长度 不小于 m
	铝	铝包钢	铝	铝包钢	总计					
10/2	6/1.50	1/1.50	10.60	1.77	12.37	4.50	2.706	4120	42.9	3000
16/3	6/1.85	1/1.85	16.13	2.69	18.82	5.55	1.779	6130	65.2	3000
25/4	6/2.32	1/2.32	25.36	4.23	29.59	6.96	1.131	9290	102.6	3000
35/6	6/2.72	1/2.72	34.86	5.81	40.67	8.16	0.8230	12630	141.0	3000
50/8	6/3.20	1/3.20	48.25	8.04	56.29	9.60	0.5946	16870	195.1	2000
50/30	12/2.32	7/2.32	50.73	29.59	80.32	11.60	0.5692	42620	372.0	3000
70/10	6/3.80	1/3.80	68.05	11.34	79.39	11.40	0.4217	23390	275.2	2000
70/40	12/2.72	7/2.72	69.73	40.67	110.40	13.60	0.4141	58300	511.3	2000
95/15	26/2.15	7/1.67	94.39	15.33	109.72	13.61	0.3058	35000	380.8	2000
95/20	7/4.16	7/1.85	95.14	18.82	113.96	13.87	0.3019	37200	408.9	2000
95/55	12/3.20	7/3.20	96.51	56.30	152.81	16.00	0.2992	78110	707.7	2000
120/7	18/2.90	1/2.90	118.89	6.61	125.50	14.50	0.2422	27570	379.0	2000
120/20	26/2.38	7/1.85	115.67	18.82	134.49	15.07	0.2496	41000	466.8	2000
120/25	7/4.72	7/2.10	122.48	24.25	146.73	15.74	0.2345	47880	526.6	2000
120/70	12/3.60	7/3.60	122.15	71.25	193.40	18.00	0.2364	98370	895.6	2000
150/8	18/3.20	1/3.20	144.73	8.04	152.80	16.00	0.1989	32860	461.4	2000
150/20	24/2.78	7/1.85	145.68	18.82	164.50	16.67	0.1980	46630	549.4	2000
150/25	26/2.70	7/2.10	148.86	24.25	173.11	17.10	0.1939	54110	601.0	2000
150/35	30/2.50	7/2.50	147.26	34.36	181.62	17.50	0.1962	65020	676.2	2000
185/10	18/3.60	1/3.60	183.22	10.18	193.40	18.00	0.1572	40880	584.0	2000
185/25	24/3.15	7/2.10	187.04	24.25	211.29	18.90	0.1542	59420	736.1	2000
185/30	26/2.98	7/2.32	181.34	29.59	210.93	18.88	0.1592	64320	732.6	2000
185/45	30/2.80	7/2.80	184.73	43.10	227.83	19.60	0.1564	80190	848.2	2000
210/10	18/3.80	1/3.80	204.14	11.34	215.48	19.00	0.1411	45140	650.7	2000
210/25	24/3.33	7/2.22	209.02	27.10	236.12	19.98	0.1380	65990	789.1	2000
210/35	26/3.22	7/2.50	211.73	34.36	246.09	20.38	0.1363	74250	853.9	2000
210/50	30/2.98	7/2.98	209.24	48.82	258.06	20.86	0.1381	90830	960.8	2000
240/30	24/3.60	7/2.40	244.29	31.67	275.96	21.60	0.1181	75620	922.2	2000
240/40	26/3.42	7/2.66	238.85	38.90	277.75	21.66	0.1209	83370	964.3	2000
240/55	30/3.20	7/3.20	241.27	56.30	297.57	22.40	0.1198	102100	1108	2000
300/15	42/3.00	7/1.67	296.88	15.33	312.21	23.01	0.09724	68060	939.8	2000
300/20	45/2.93	7/1.95	303.42	20.91	324.33	23.43	0.09520	75680	1002	2000
300/25	48/2.85	7/2.22	306.21	27.10	333.31	23.76	0.09433	83410	1058	2000
300/40	24/3.99	7/2.66	300.09	38.90	338.99	23.94	0.09614	92220	1133	2000
300/50	26/3.83	7/2.98	299.54	48.82	348.36	24.26	0.09636	103400	1210	2000
300/70	30/3.60	7/3.60	305.36	71.25	376.61	25.20	0.09463	128000	1402	2000
400/20	42/3.51	7/1.95	406.40	20.91	427.31	26.91	0.07104	88850	1283	1500
400/25	45/3.33	7/2.22	391.91	27.10	419.01	26.64	0.07370	95940	1295	1500
400/35	48/3.22	7/2.50	390.88	34.36	425.24	26.82	0.07389	103900	1349	1500
400/50	54/3.07	7/3.07	399.73	51.82	451.55	27.63	0.07232	123400	1511	1500
400/65	26/4.42	7/3.44	398.94	65.06	464.00	28.00	0.07236	135200	1611	1500
400/95	30/4.16	19/2.50	407.75	93.27	501.02	29.14	0.07087	171300	1860	1500
500/35	45/3.75	7/2.50	497.01	34.36	531.37	30.00	0.05812	119500	1642	1500
500/45	48/3.60	7/2.80	488.58	43.10	531.68	30.00	0.05912	128100	1688	1500
500/65	54/3.44	7/3.44	501.88	65.06	566.94	30.96	0.05760	154000	1897	1500
630/45	45/4.20	7/2.80	623.45	43.10	666.55	33.60	0.04633	148700	2060	1200
630/55	48/4.12	7/3.20	639.92	56.30	696.22	34.32	0.04514	164400	2209	1200
630/80	54/3.87	19/2.32	635.19	80.32	715.51	34.82	0.04551	192900	2388	1200
800/55	45/4.80	7/3.20	814.30	56.30	870.60	38.40	0.03547	191500	2690	1000
800/70	48/4.63	7/3.60	808.15	71.25	879.40	38.58	0.03574	207000	2791	1000
800/100	54/4.33	19/2.60	795.17	100.88	896.05	38.98	0.03635	241100	2991	1000





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