

PREFORMED WIRE PRODUCTS AND FITTINGS FOR OPTICAL CABLE USING OVERHEAD POWER LINE

GUANGDONG HENVCON ELECTRIC POWER
TECHNOLOGY CO.,LTD

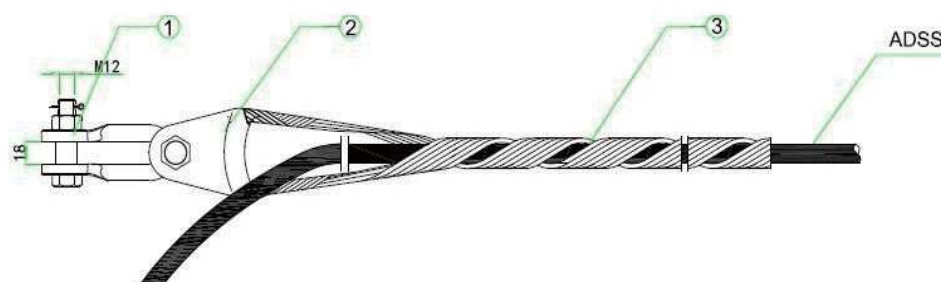
Content

1.Dead-end for Short Span ADSS.....	- 3 -
2.Dead-end for Medium /Long Span ADSS.....	- 4 -
3.Tangent Suspension and Single Preformed Rods Suspension for ADSS.....	- 7 -
4.Suspension for ADSS.....	- 10 -
5.Double Suspension Set for ADSS.....	- 13 -
6.Preformed Dead-end for OPGW.....	- 15 -
7. Single Suspension for OPGW.....	- 17 -
8.Double Suspension for OPGW.....	- 19 -
9.Down Lead Clamp.....	- 21 -
10.Helical Vibration Damper.....	- 22 -
11.Vibration Damper 、 Armour Rod.....	- 23 -
12.Closures.....	- 26 -
13.Cable Storage Assembly.....	- 29 -
14.Immobility Clamp.....	- 31 -
15、 Immobility Clamp for Pole.....	- 32 -
16.Composing Fittings.....	- 33 -
17.AppendixLink Fittings Parameter.....	- 35 -

1. Dead-end for Short Span ADSS

Dead-end for Short Span ADSS with a small Tension Clamp material for aluminum-clad gang wire, mainly used for the corner towers, the middle of follow-tower and connecting the terminal tower, the largest installation file from the less than 100 meters.

Pictures and illustrations:



1、U-Clevis

2、Thimble

3、Helical Dead-end

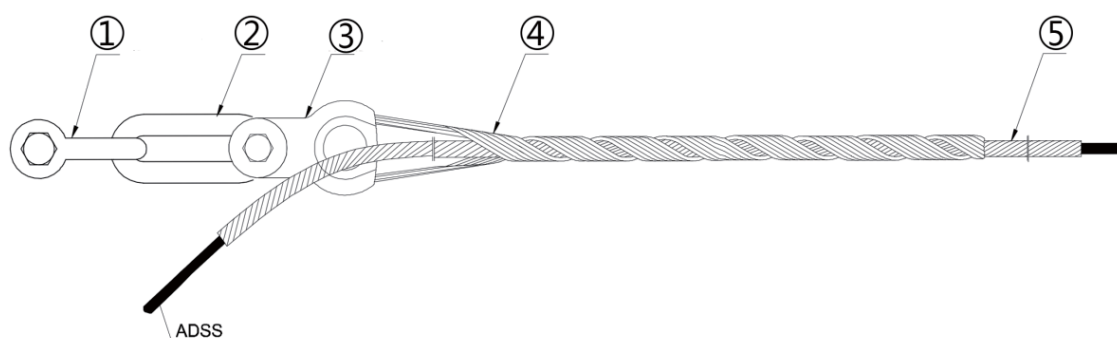
Model Specification:

Model	Available Dia. of Cable (mm)	Length of Dead-end Component (mm)	Reference Weight (kg)	Universal Scheme	
				U-Clevis	Thimble
ANJ 0950	9.0-9.5	700	0.4	U-4	TC-2
ANJ 1050	9.6-10.5	850	0.5	U-4	TC-2
ANJ 1160	10.6-11.6	1000	0.5	U-4	TC-2
ANJ 1280	11.7-12.8	960	0.7	U-4	TC-2
ANJ 1410	12.9-14.1	1080	0.8	U-4	TC-2
ANJ 1560	14.2-15.6	1160	1.2	U-4	TC-2
ANJ 1700	15.7-17.0	1160	1.2	U-4	TC-2

2. Dead-end for Medium /Long Span ADSS

Dead-end for Medium Span ADSS in tension and large tension Clamp material for aluminum-clad steel wire, mainly used for files larger than 100 meters away from the corner tower, the middle tower and Terminal Tower successive connection.

Pictures and illustrations:



- | | | | |
|--------------------------------|------------|------------|-----------------------|
| 1、 U-Clevis | 2、 PH-Link | 3、 Thimble | 4、 Dead-end Component |
| 5、 Structural Reinforcing Rods | | | |

Model Specification:

Model	Available Dia. of Cable (mm)	Grip strengt h (kN)	Length of Dead-end Component (mm)	Length of Reinforcing Rods(mm)	Reference Weight (kg)	Universal Scheme			Reference Span (m)
						Link	Thimble	Clevis	
ANY 0940 020	8.6-9.4	20	800	1100	0.9	PH-4	TC-2	U-4	200~300
ANY 1010 020	9.5-10.1	20	800	1100	0.9	PH-4	TC-2	U-4	200~300
ANY 1070 020	10.2-10.7	20	800	1100	1.0	PH-4	TC-2	U-4	200~300
ANY 1140 020	10.8-11.4	20	800	1100	1.0	PH-4	TC-2	U-4	200~300
ANY 1220 020	11.5-12.2	20	800	1100	1.1	PH-4	TC-2	U-4	200~300
ANY 1290 020	12.3-12.9	20	800	1100	1.4	PH-4	TC-2	U-4	200~300
ANY 1370 020	13.0-13.7	20	800	1100	1.3	PH-4	TC-4	U-4	200~300
ANY 1460 020	13.8-14.6	20	800	1100	1.3	PH-4	TC-4	U-4	200~300
ANY 1550 020	14.7-15.5	20	800	1100	1.5	PH-4	TC-4	U-4	200~300
ANY 0940 030	8.6-9.4	30	1100	1400	1.2	ZH-4	TC-2	U-4	300~400
ANY 1010 030	9.5-10.1	30	1100	1400	1.2	ZH-4	TC-2	U-4	300~400
ANY 1070 030	10.2-10.7	30	1100	1400	1.4	ZH-4	TC-2	U-4	300~400
ANY 1140 030	10.8-11.4	30	1100	1400	1.4	ZH-4	TC-2	U-4	300~400
ANY 1220 030	11.5-12.2	30	1100	1400	1.7	ZH-4	TC-4	U-4	300~400
ANY 1290 030	12.3-12.9	30	1100	1400	1.7	ZH-4	TC-4	U-4	300~400
ANY 1370 030	13.0-13.7	30	1100	1400	1.9	ZH-4	TC-4	U-4	300~400
ANY 1460 030	13.8-14.6	30	1100	1400	1.9	ZH-4	TC-4	U-4	300~400
ANY 1550 030	14.7-15.5	30	1100	1400	2.1	ZH-4	TC-4	U-4	300~400
ANY 1220 040	11.5-12.2	40	1260	1800	2.0	PH-7	TC-7	U-7	400~500

GUANGDONG HENVCON ELECTRIC POWER TECHNOLOGY CO.,LTD

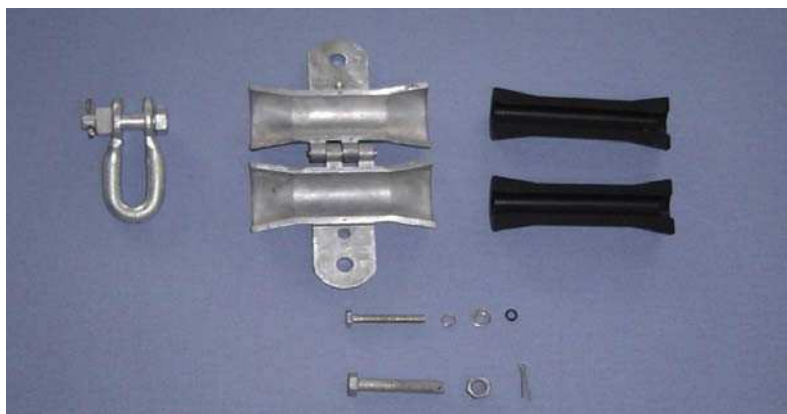
Model	Available Dia. of Cable (mm)	Grip strengt h (kN)	Length of Dead-end Component (mm)	Length of Reinforcing Rods(mm)	Reference Weight (kg)	Universal Scheme			Reference Span (m)
						Link	Thimble	Clevis	
ANY 1290 040	12.3-12.9	40	1260	1800	2.0	PH-7	TC-7	U-7	400~500
ANY 1370 040	13.0-13.7	40	1260	1800	2.3	PH-7	TC-7	U-7	400~500
ANY 1460 040	13.8-14.6	40	1260	1800	2.3	PH-7	TC-7	U-7	400~500
ANY 1550 040	14.7-15.5	40	1260	1800	2.3	PH-7	TC-7	U-7	400~500
ANY 1650 040	15.6-16.5	40	1260	1800	2.9	PH-7	TC-7	U-7	400~500
ANY 1370 050	13.0-13.7	50	1400	2000	2.9	PH-7	TC-7	U-7	500~700
ANY 1460 050	13.8-14.6	50	1400	2000	3.0	PH-7	TC-7	U-7	500~700
ANY 1550 050	14.7-15.5	50	1400	2000	3.1	PH-7	TC-7	U-7	500~700
ANY 1650 050	15.6-16.5	50	1400	2000	3.2	PH-7	TC-7	U-7	500~700
ANY 1370 060	13.0-13.7	60	1560	2200	3.2	PH-7	TC-7	U-7	600~800
ANY 1460 060	13.8-14.6	60	1560	2200	3.3	PH-7	TC-7	U-7	600~800
ANY 1550 060	14.7-15.5	60	1560	2200	3.7	PH-10	TC-10	U-10	600~800
ANY 1650 060	15.6-16.5	60	1560	2200	3.8	PH-10	TC-10	U-10	600~800
ANY 1460 070	13.8-14.6	70	1600	2400	3.8	PH-10	TC-10	U-10	700~900
ANY 1550 070	14.7-15.5	70	1600	2400	3.9	PH-10	TC-10	U-10	700~900
ANY 1650 070	15.6-16.5	70	1600	2400	4.0	PH-10	TC-10	U-10	700~900
ANY 1750 070	16.6-17.5	70	1600	2400	4.5	PH-10	TC-10	U-10	700~900
ANY 1870 070	17.6-18.7	70	1600	2400	4.6	PH-10	TC-10	U-10	700~900
ANY 1550 080	14.7-15.5	80	2000	3000	5.5	PH-10	TC-10	U-10	800~1000
ANY 1650 080	15.6-16.5	80	2000	3000	5.6	PH-10	TC-10	U-10	800~1000
ANY 1750 080	16.6-17.5	80	2000	3000	5.6	PH-10	TC-10	U-10	800~1000

3.Tangent Suspension and Single Preformed Rods

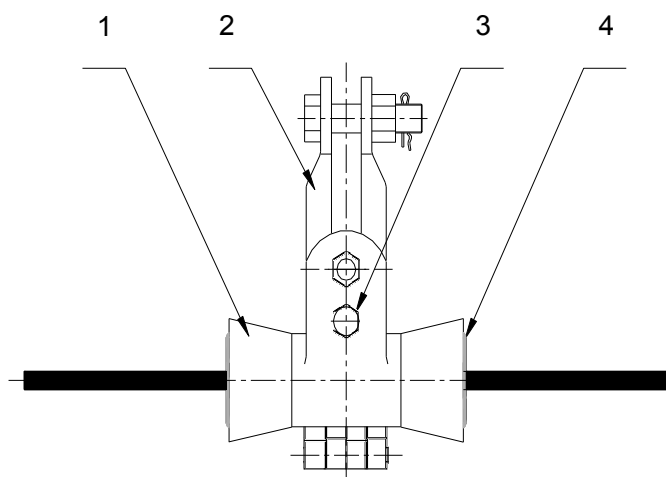
Suspension for ADSS

Tangent is mainly used with the tangent clamp connections within a 100m span, single pre-twisted wire Suspension is mainly used within a 200m span connection.

Pictures and illustrations:



Span=100m



1、AGS Clamp

2、U-Clevis

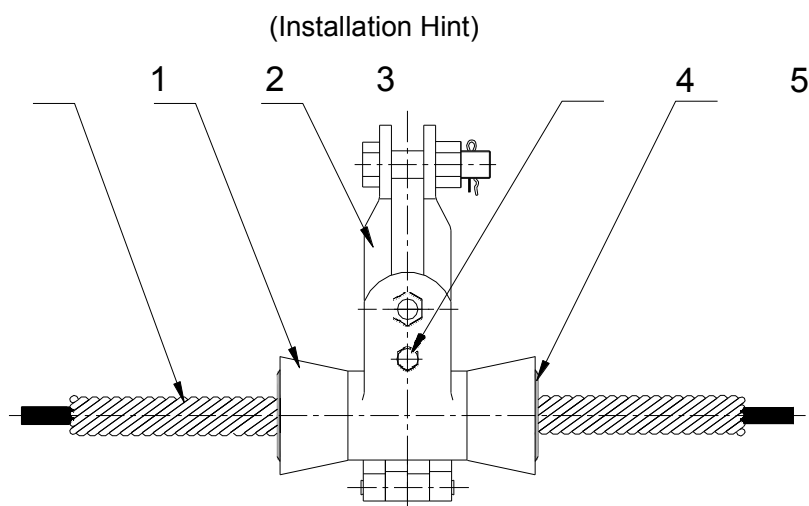
3、Bolt

4、Latex Pad

Pictures and illustrations:



Span <200m



1、 Preformed Rods 2、 AGS Clamp 3、 U-Clevis 4、 Bolt 5、 Latex Pad

Model Specification (Span < 100m) :

Name	Model	Available Dia. of Cable (mm)	Universal Scheme			Available Dia. of Span (m)
			AGS Clamp /Weight(kg)		U-Clevis	
Tangent Clamp for ADSS	AXQ 1110	9.0-11.1	XGT-25	1.00	U-4	100
	AXQ 1330	11.2-13.3	XGT-25	1.00	U-4	
	AXQ 1550	13.4-15.5	XGT-25	1.00	U-4	
	AXQ 1770	15.6-17.7	XGT-25	1.00	U-4	
	AXQ 1900	17.8-19.0	XGT-25	1.00	U-4	

Model Specification (Span < 200m) :

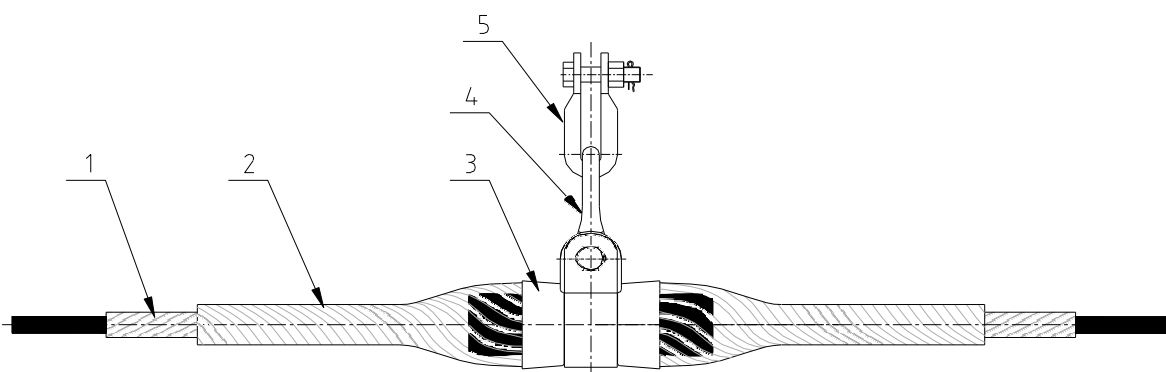
Name	Model	Available Dia. of Cable (mm)	Length of Reinforcing Rods(mm)	Universal Scheme			Available Dia. of Span (m)
				AGS Clamp /Weight(kg)		U-Clevis	
Tangent Clamp for ADSS	AXD 0950	9.0-9.5	800	XGT-25	1.00	U-4	< 200
	AXD 1050	9.6-10.5	800	XGT-25	1.00	U-4	
	AXD 1160	10.6-11.6	800	XGT-25	1.00	U-4	
	AXD 1280	11.7-12.8	860	XGT-25	1.00	U-4	
	AXD 1410	12.9-14.1	900	XGT-25	1.00	U-4	
	AXD 1560	14.2-15.6	1000	XGT-25	1.00	U-4	
	AXD 1700	15.7-17.0	1000	XGT-25	1.00	U-4	

Note: The above configuration is conventional configuration. If special configuration is required, consult the technical department of the company.

4.Suspension for ADSS

Suspension Set for ADSS pre-twisted wire with single-and double-twisted wire two kinds of pre-design, single-storey pre-twisted threads within the file folder for the 400m distance connections, double the pre-twisted threads are generally used for large file from the folder (within 1000m) the connection between, may be based on actual need to select a different installation method.

Pictures and illustrations:



- 1、 Structural Reinforcing Rods 2、 Dead-end Component 3、 AGS Clamp
4、 Eye Chain Link(TypeZH) 5、 U-Clevis

Model Specification:

Model	Available Dia. of Cable(mm)	Length of Dead-end Component (mm)	Length of Reinforcing Rods (mm)	Reference Weight (kg)	Universal Scheme			Available Dia. of Span (m)
					AGS Clamp	Link Fittings		
AXY 0940 300	8.6-9.4	1500	1060	1.2	TK-3	/	U-4	200~300
AXY 1010 300	9.5-10.1	1500	1060	1.2	TK-3	/	U-4	200~300
AXY 1070 300	10.2-10.7	1540	1080	1.3	TK-3	/	U-4	200~300
AXY 1140 300	10.8-11.4	1540	1080	1.3	TK-3	/	U-4	200~300
AXY 1220 300	11.5-12.2	1680	1160	1.5	TK-3	/	U-4	200~300
AXY 1290 300	12.3-12.9	1680	1160	1.5	TK-3	/	U-4	200~300
AXY 1370 300	13-13.7	1800	1250	1.7	TK-3	/	U-4	200~300
AXY 1460 300	13.8-14.6	1800	1250	1.7	TK-3	/	U-4	200~300
AXY 1550 300	14.7-15.5	1800	1250	1.8	TK-3	/	U-4	200~300
AXY 0940 400	8.6-9.4	1600	1100	1.2	TK-3	/	U-4	300~400
AXY 1010 400	9.5-10.1	1600	1100	1.2	TK-3	/	U-4	300~400
AXY 1070 400	10.2-10.7	1600	1100	1.3	TK-3	/	U-4	300~400
AXY 1140 400	10.8-11.4	1600	1100	1.3	TK-3	/	U-4	300~400
AXY 1220 400	11.5-12.2	1720	1200	1.5	TK-3	/	U-4	300~400
AXY 1290 400	12.3-12.9	1720	1200	1.5	TK-3	/	U-4	300~400
AXY 1370 400	13-13.7	1150	900	1.2	TK-3	/	U-4	300~400
AXY 1460 400	13.8-14.6	1840	1300	1.8	TK-3	/	U-4	300~400
AXY 1550 400	14.7-15.5	1840	1300	1.9	TK-3	/	U-4	300~400
AXY 1220 500	11.5-12.2	1760	1260	1.8	AGS-4	/	U-7	400~500
AXY 1290 500	12.3-12.9	1760	1260	1.6	AGS-4	/	U-7	400~500
AXY 1370 500	13-13.7	1860	1300	1.8	AGS-4	/	U-7	400~500
AXY 1460 500	13.8-14.6	1860	1300	1.8	AGS-4	/	U-7	400~500
AXY 1550 500	14.7-15.5	1940	1360	2.0	AGS-4	/	U-7	400~500
AXY 1650 500	15.6-16.5	1940	1360	3.1	AGS-4	/	U-7	400~500
AXY 1370 700	13-13.7	1920	1360	2.5	AGS-5	ZH-7	U-7	500~700
AXY 1460 700	13.8-14.6	1680	1300	2.2	AGS-5	ZH-7	U-7	500~700
AXY 1550 700	14.7-15.5	2000	1400	2.9	AGS-5	ZH-7	U-7	500~700

GUANGDONG HENVCON ELECTRIC POWER TECHNOLOGY CO.,LTD

Model	Available Dia. of Cable(mm)	Length of Dead-end Component (mm)	Length of Reinforcing Rods (mm)	Reference Weight (kg)	Universal Scheme			Available Dia. of Span (m)
					AGS Clamp	Link Fittings		
AXY 1650 700	15.6-16.5	1700	1450	2.6	AGS-5	ZH-7	U-7	500~700
AXY 1370 800	13-13.7	2060	1460	2.7	AGS-5	ZH-7	U-7	600~800
AXY 1460 800	13.8-14.6	2060	1460	2.9	AGS-5	ZH-7	U-7	600~800
AXY 1550 800	14.7-15.5	2120	1460	3.0	AGS-5	ZH-7	U-7	600~800
AXY 1650 800	15.6-16.5	2200	1580	3.4	AGS-6	ZH-7	U-7	600~800
AXY 1550 1000	14.7-15.5	2340	1560	3.3	AGS-6	ZH-7	U-7	800~1000
AXY 1650 1000	15.6-16.5	2590	1680	3.8	AGS-6	ZH-7	U-7	800~1000
AXY 1750 1000	16.6-17.5	2590	1680	3.8	AGS-6	ZH-7	U-7	800~1000
AXY 1870 1000	17.6-18.7	2590	1680	4.1	AGS-6	ZH-7	U-7	800~1000

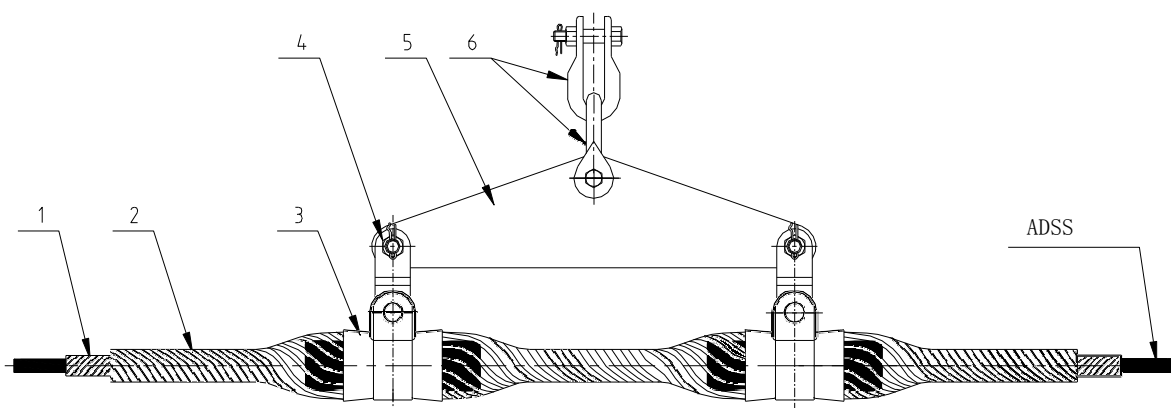
Note: 1. The maximum unilateral suspension angle of single suspension clamp is 15 ° - 18 °.

2. The above configuration is conventional configuration. If special configuration is required, consult the technical department of the company.

5.Double Suspension Set for ADSS

Double Suspension Set for ADSS is mainly used for large height difference, span more than 800 meters or unilateral overhang angle is 30° - 36° line tower connection.

Pictures and illustrations:



- 1 、 Structural Reinforcing Rods 2、 Dead-end Component 3.AGS Clamp
4. PS-link 5、 Yoke Plate 6、 U-Clevis

Model Specification(Span >800m) :

Model	Available Dia. of Cable(mm)	Length of Reinforcing Component (mm)	Length of Dead-end Rods (mm)	Reference Weight (kg)	Universal Scheme		
					Link	AGS Clamp	Link Fittings
AXS 0940	8.6-9.4	1900	1600	1.7	L-1040	AGS-4	U-10
AXS 1010	9.5-10.1	1900	1600	1.8	L-1040	AGS-4	U-10
AXS 1070	10.2-10.7	1900	1600	1.9	L-1040	AGS-4	U-10
AXS 1140	10.8-11.4	1900	1600	1.9	L-1040	AGS-4	U-10
AXS 1220	11.5-12.2	2000	1700	2.2	L-1040	AGS-4	U-10
AXS 1290	12.3-12.9	2000	1800	2.3	L-1040	AGS-5	U-10
AXS 1370	13.0-13.7	2000	1800	3.4	L-1040	AGS-5	U-10
AXS 1460	13.8-14.6	2000	1800	3.6	L-1040	AGS-5	U-10
AXS 1550	14.7-15.5	2200	1900	4.0	L-1040	AGS-5	U-10
AXS 1650	15.6-16.5	2200	1900	4.2	L-1040	AGS-6	U-10
AXS 1750	16.6-17.5	2400	2000	4.4	L-1040	AGS-6	U-10
AXS 1870	17.6-18.7	2400	2000	4.7	L-1040	AGS-6	U-10

Note: 1. The maximum unilateral suspension angle of single suspension clamp is 20 ° - 30 °.

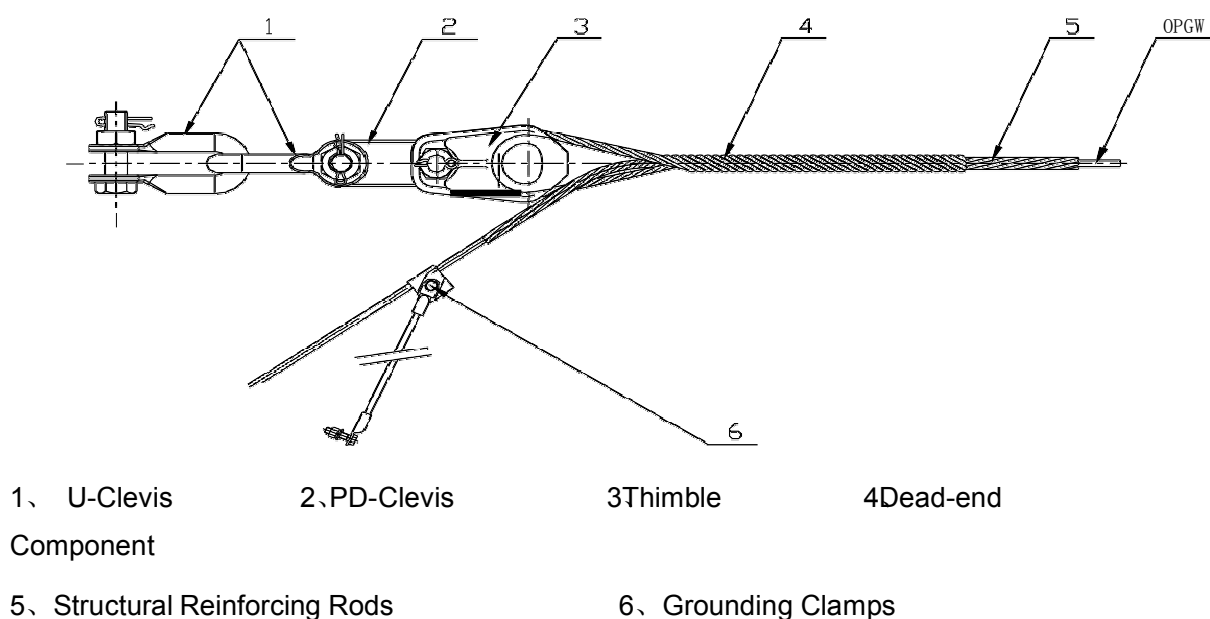
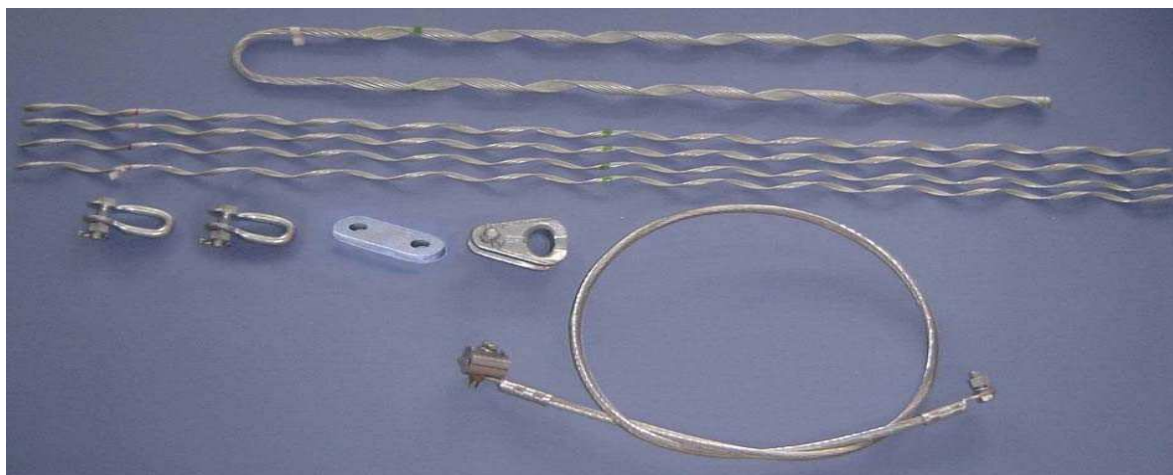
2.The above configuration is conventional configuration. If special configuration is required, consult the technical department of the company.

6.Preformed Dead-end for OPGW

Dead-end for OPGW is mainly used for the corner towers, the middle tower and Terminal Tower successive connections. Screw Clamp materials, primarily for aluminum clad steel wire, with a very strong resistance to tensile strength, protection and support of fiber optic cable to play the role of damping. Clamp grip cable rated tensile strength of not less than 95%, fully meet the installation of mechanical properties of the power cable. Chang Chin-resistant fiber optic cable package with included: outer preformed wire, twisted wire and supporting the inner pre-connect fittings and so on.

Preformed Dead-end has excellent fatigue resistance, and the simple structure, easy installation, quick, no special equipment, significantly reducing construction costs.

Pictures and illustrations:



Model Specification:

Model	Available Dia. of Cable		Length of Dead-end Component		Reference Weight (kg)	Breaking strength (kN)	Universal Scheme		
	Minimum (mm)	Maximum (mm)	Inner (mm)	outer (mm)			Clevis	Thimble	U-Clevis
ONY 0780	7.2	7.8	1400	1000	1.1	70	PD-7	TC-7	2*U-7
ONY 0880	7.9	8.8	1400	1000	1.2	70	PD-7	TC-7	2*U-7
ONY 1010	8.9	10.1	1500	1100	1.4	70	PD-7	TC-7	2*U-7
ONY 1140	10.2	11.4	1540	1120	1.9	90	PD-7	TC-7	2*U-7
ONY 1280	11.5	12.8	1720	1300	2.2	100	PD-10	TC-10	2*U-10
ONY 1410	12.9	14.1	1660	1240	2.5	110	PD-10	TC-10	2*U-10
ONY 1550	14.2	15.5	1840	1360	3.2	110	PD-12	TC-12	2*U-12
ONY 1730	15.6	17.3	2000	1480	4.0	120	PD-12	TC-12	2*U-12
ONY 1840	17.4	18.4	2000	1480	4.1	120	PD-12	TC-12	2*U-12

Note: 1. Rods material: Aluminum clad steel wire.

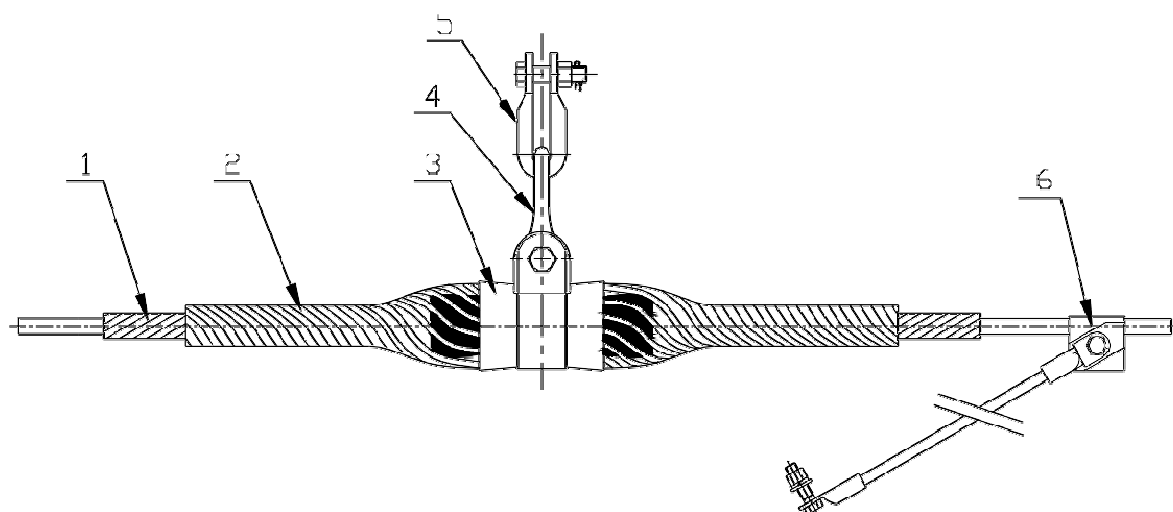
2.The above configuration is conventional configuration. If special configuration is required, consult the technical department of the company.

7. Single Suspension for OPGW

Suspension Set for OPGW used primarily for straight-sided drop tower, or less than 15 ° line tower connection. Clamp screw from the inside and outside the two pre-twisted wire, hanging head and supporting the composition of connecting fittings. Clamp grip strength is greater than the tensile strength of fiber optic cable rated 10% -20%, for the transfer axial loads, and distributed radial compressive stress, better protection of fiber optic cable, to avoid the phenomenon of bending stresses and stress concentration.

Suspension Set for OPGW with the Suspension has excellent fatigue resistance, the power cable can also play a supporting role in damping.

Pictures and illustrations:



- 1、 Structural Reinforcing Rods 2、 Dead-end Component 3、 AGS Clamp
4、 EyeChainLink(TypeZH) 5、 U-Clevis 6、 Grounding Clamps

Model Specification:

The grip strength of single suspension clamp shall not be less than 18% of the RTS.

Model	Available Dia. Of Cable (mm)	Length of Structural Reinforcin g Rods (mm)	Length of Outer Rods(	Reference Weight(KG)	Universal Scheme		
					AGS Clamp	Link Fittings	
OXY 0940	8.9-9.4	1400	1000	0.88	AGS-5	ZH-7	U-7
OXY 1010	9.5-10.1	1690	1140	1.38	AGS-5	ZH-7	U-7
OXY 1070	10.2-10.7	1690	1140	1.48	AGS-5	ZH-7	U-7
OXY 1140	10.8-11.4	1760	1180	1.55	AGS-5	ZH-7	U-7
OXY 1220	11.5-12.2	1840	1240	1.73	AGS-5	ZH-7	U-7
OXY 1290	12.3-12.9	1960	1320	1.84	AGS-5	ZH-7	U-7
OXY 1370	13.0-13.7	1960	1320	2.74	AGS-5	ZH-7	U-7
OXY 1460	13.8-14.6	2000	1360	2.99	AGS-6	ZH-7	U-7
OXY 1550	14.7-15.5	2120	1440	3.38	AGS-6	ZH-7	U-7
OXY 1650	15.6-16.5	2120	1440	3.59	AGS-6	ZH-7	U-7
OXY 1750	16.6-17.5	2400	1620	4.07	AGS-6	ZH-7	U-7
OXY 1870	17.6-18.7	2400	1620	4.31	AGS-6	ZH-7	U-7

Note: 1. The maximum single side suspension angle of single suspension clamp is 15 ° - 18 °.

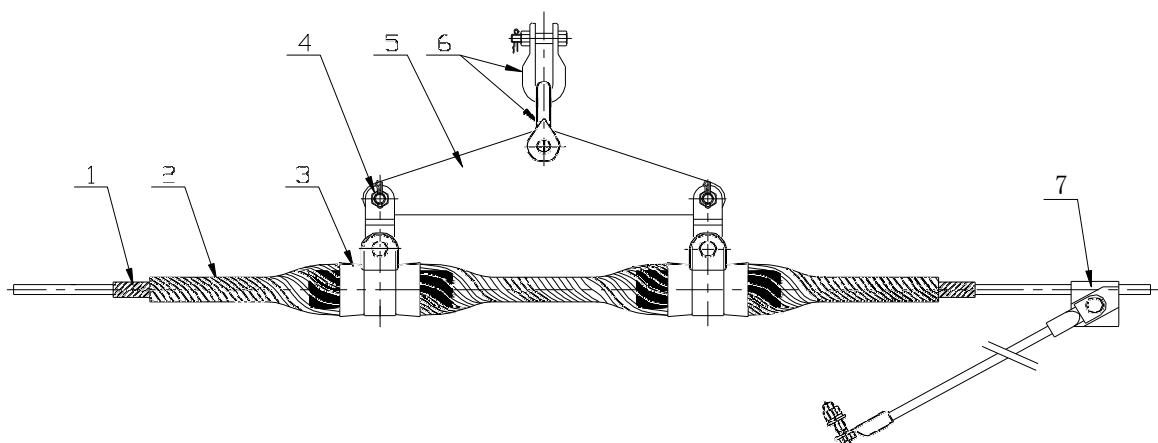
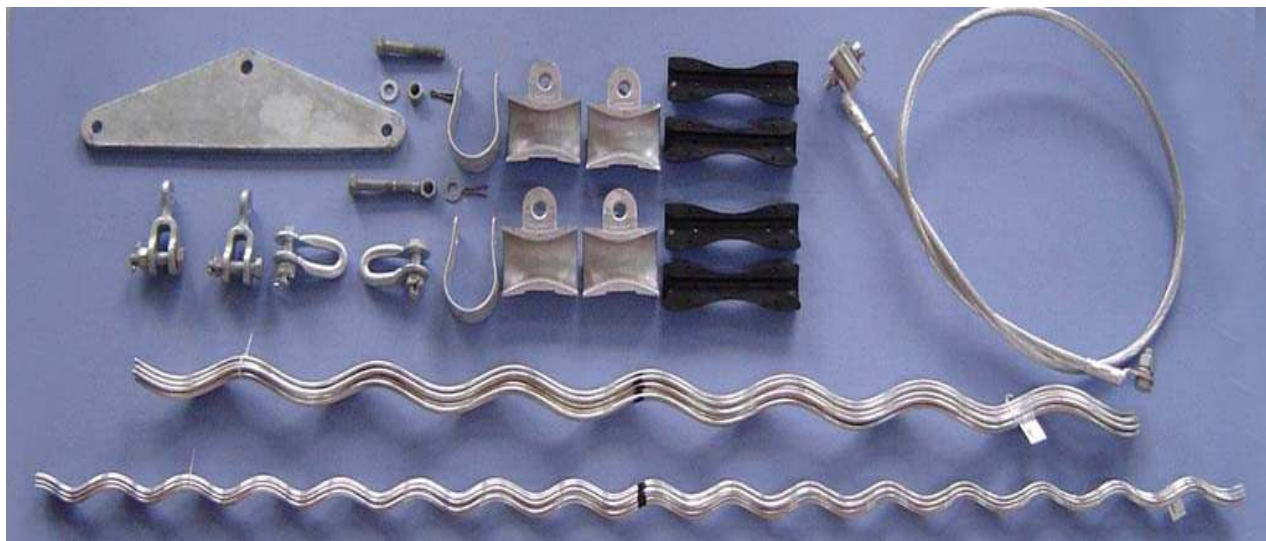
2. The above configuration is a general configuration. Please refer to the appendix for other connection hardware and special instructions.

3. If you have special needs, you can consult our technology department.

8.Double Suspension for OPGW

Double Suspension Set For OPGW with the use of double-Suspension design, including the inner and outer pre-twisted wire to connect two sets of hanging head and matching fittings. Clamp has excellent fatigue resistance, mainly for large height difference, span more than 800 meters or unilateral overhang angle is 30-36 ° line tower connection.

Pictures and illustrations:



- 1 、 Structural Reinforcing Rods 2、 Dead-end Component 3、 AGS Clamp 4、PS-Link
6、 YokePlate 6U-Clevis 7、 Grounding Clamps

Model Specification:

The grip strength of single suspension clamp shall not be less than 30% of the RTS.

Model	Available Dia. of Cable (mm)	Length of Structural Reinforcing Rods (mm)	Length of Outer Rods (mm)	Reference Weight (kg)	Universal Scheme	
					AGS Clamp	Link Fittings
OXS 0940	8.6-9.4	2100	1600	1.71	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1010	9.5-10.1	2200	1600	1.79	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1070	10.2-10.7	2200	1600	1.93	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1140	10.8-11.4	2200	1600	1.93	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1220	11.5-12.2	2300	1700	2.16	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1290	12.3-12.9	2400	1800	2.26	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1370	13.0-13.7	2400	1800	3.35	2*AGS-5	2*U-10+L-1040+2*PS-7
OXS 1460	13.8-14.6	2400	1800	3.59	2*AGS-6	2*U-12+L-1240+2*PS-7
OXS 1550	14.7-15.5	2500	1900	3.99	2*AGS-6	2*U-12+L-1240+2*PS-7
OXS 1650	15.6-16.5	2500	1900	4.24	2*AGS-6	2*U-12+L-1240+2*PS-7
OXS 1750	16.6-17.5	2600	2000	4.41	2*AGS-6	2*U-12+L-1240+2*PS-7
OXS 1870	17.6-18.7	2600	2000	4.67	2*AGS-6	2*U-12+L-1240+2*PS-7

Note: 1. The maximum single side suspension angle of single suspension clamp is 30 ° - 36 °.

2. The above configuration is a general configuration. Please refer to the appendix for other connection hardware and special instructions.

3. If you have special needs, you can consult our technology department.

9.Down Lead Clamp



Rubber Down Lead Clamp for Pole



Metal Down Lead Clamp for Pole



Rubber Down Lead Clamp for Tower



Metal Down Lead Clamp for Tower

Use and material:

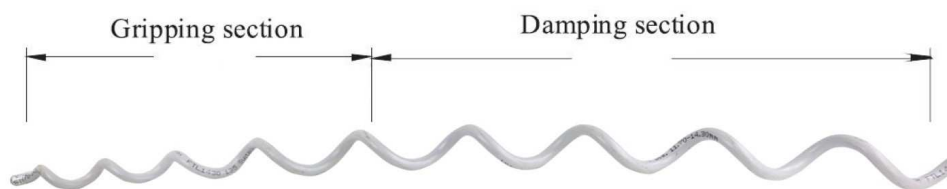
Down lead clamp is used to fix the optical cable during down lead and jump connection of optical cable. One set of optical cable shall be installed every 1.5-2.0m.

Parallel groove clamp aging resistant rubber or aluminum alloy stainless steel band hoop stainless steel support aluminum alloy U-shaped steel galvanized steel

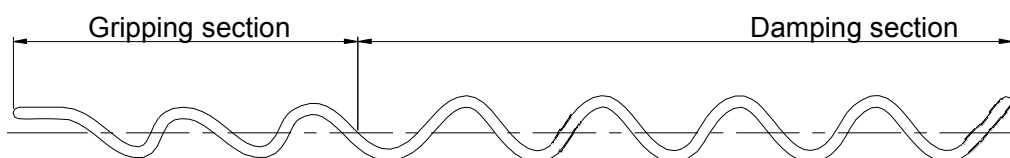
Model Specification:

Product Name	Model	Available Dia. of Cable(mm)	Weight (kg)	Remark
Rubber Down Lead Clamp for Pole	TGY 1440-H	9.0-14.4	0.85	Used For ADSS
	TGY 1770-H	14.5-17.7	0.85	
Metal Down Lead Clamp for Pole	TGY 240-H	8.5-24.0	0.85	Used For OPGW
Rubber Down Lead Clamp for Tower	TGY 1440-T	9.0-14.4	0.95	Used For ADSS
	TGY 1770-T	14.5-17.7	0.95	
Metal Down Lead Clamp for Tower	TGY 240-T	8.5-24.0	0.95	Used For OPGW

10. Helical Vibration Damper



Pictures and illustrations:



(Materials, used, configuration)

This product uses high-strength, anti-aging PVC plastic, It commonly used in the damping device for ADSS, and the heavy ice of the anti-vibration OPGW.

Base on the tension and span of ADSS, Choose the common configurations in the right table:

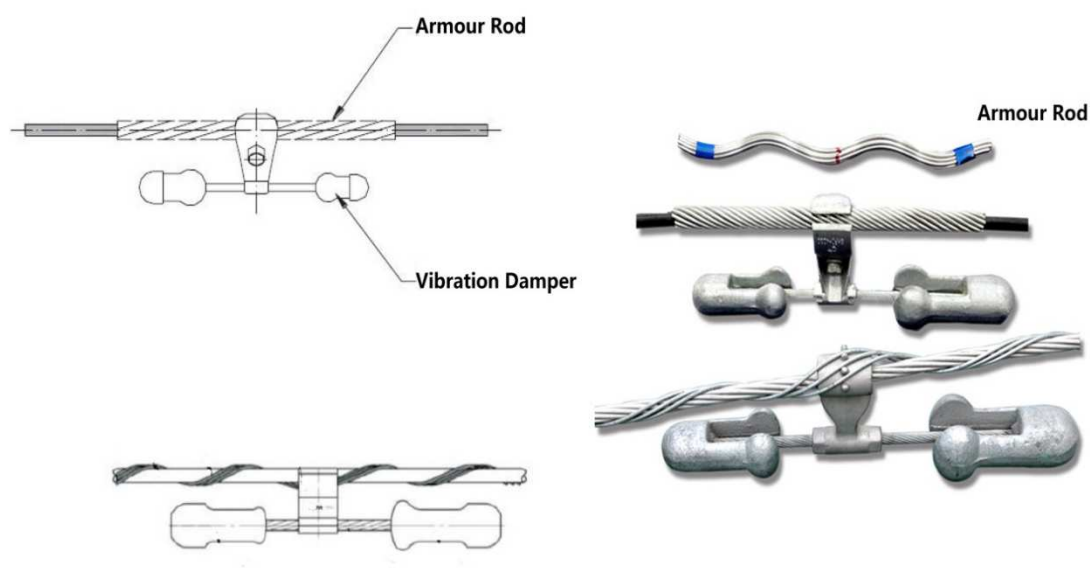
Span	Number/Span
<100M	0
100-250	2
250-400	4
400-800	6
800-1000	8

Model	Dia. Range(mm)	Clamp Length(mm)	Total Length(mm)	Weight(kg)
FTL 1170 130	8.30-11.70	250	1300	0.28
FTL 1430 135	11.71-14.30	250	1350	0.30
FTL 1930 167	14.31-19.30	330	1670	0.66
FTL 2220 180	19.31-22.20	330	1800	0.76

11.Vibration Damper 、 Armour Rod

The company offers a 4D series of anti-vibration hammer tuning fork design for Stockbridge, multi-resonance sound damping devices, mainly used for weakening and fragmentation of fiber optic cable due to aerolian vibration generated by the impact energy.

Pictures and illustrations:



Model Specification:

Model	Clamp Dia. Range(mm)	Total Length (mm)	Clamp W(mm)	Weight(kg)
4D-20-19.5	19.5-15.0	310	52	1.4
4D-20-23.4	23.4-19.5			
4D-20-27.0	27.0-22.3			
4D-30-20.3	20.3-16.5	383	52	2.5
4D-30-23.4	23.4-19.5			
4D-30-27.0	27.0-22.3			

It is commonly used in the anti vibration device of OPGW cable and ADSS cable.

Configuration of installation quantity of OPGW damper

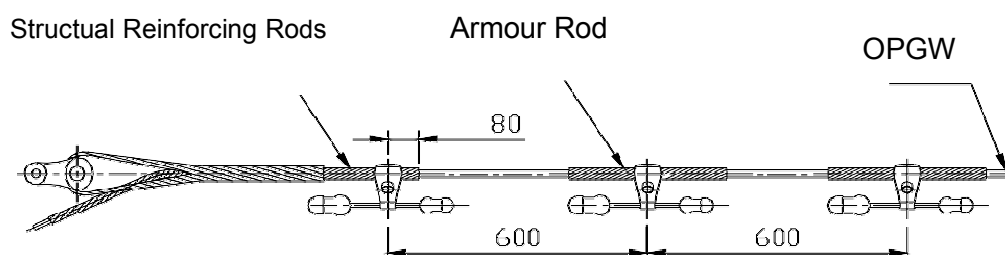
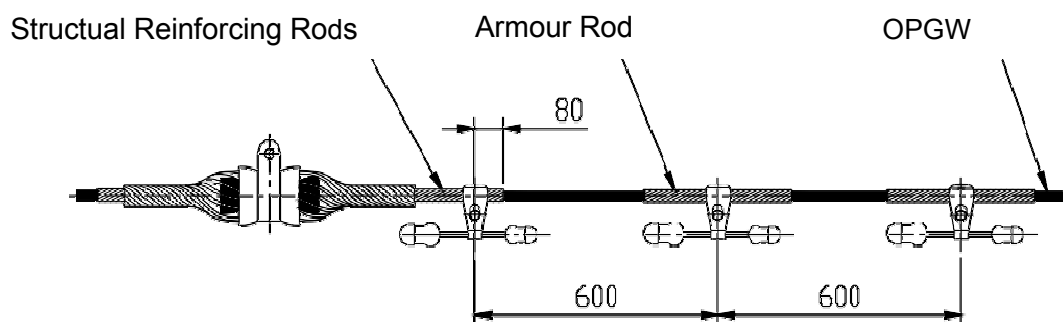
Cable Dia.(mm)	Span(m)			
	100~300	300~600	600~900	
$d < 12$	100~300	300~600	600~900	
$12 \leq d < 22$	100~350	350~700	700~1000	1000~1200
Quantity of damper (each span)	2	4	6	8

Configuration of installation quantity of ADSS damper

Cable Dia.(mm)	Span(m)			
	100~250	250~450	450~700	
$d < 12$	100~250	250~450	450~700	
$12 < d < 22$	100~250	250~500	500~800	800~1000
Quantity of damper (each span))	1	2	4	6

Note: on the critical span, for the sake of safety, the number of vibration dampers should be more or less.

Installation Hint:



Armour Rod Model Specification:

Model	Cable Dia.(mm)	Material	Length (mm)	Weigh t(kg)	Model	Cable Dia. (mm)	Material	Length (mm)	Weight (kg)
FZH 0960	9.0-9.6	AL-ALLOY	450	0.15	FZH 1450	14.4-14.5	AL-ALLOY	500	0.23
FZH 1010	9.7-10.1	AL-ALLOY	450	0.15	FZH 1510	14.6-15.1	AL-ALLOY	500	0.25
FZH 1060	10.2-10.6	AL-ALLOY	450	0.17	FZH 1580	15.2-15.8	AL-ALLOY	550	0.28
FZH 1110	10.7-11.1	AL-ALLOY	450	0.17	FZH 1600	15.9-16.0	AL-ALLOY	550	0.30
FZH 1160	11.2-11.6	AL-ALLOY	500	0.19	FZH 1690	16.1-16.9	AL-ALLOY	550	0.30
FZH 1170	11.7-11.7	AL-ALLOY	500	0.21	FZH 1730	17.0-17.3	AL-ALLOY	550	0.30
FZH 1200	11.8-12.0	AL-ALLOY	500	0.21	FZH 1800	17.4-18.0	AL-ALLOY	550	0.33
FZH 1270	12.1-12.7	AL-ALLOY	500	0.21	FZH 1840	18.1-18.4	AL-ALLOY	550	0.33
FZH 1290	12.8-12.9	AL-ALLOY	500	0.23	FZH 1880	18.5-18.8	AL-ALLOY	550	0.35
FZH 1360	13.0-13.6	AL-ALLOY	500	0.23					

Note:

1. The above configuration is a general configuration. Please refer to the appendix for other connection hardware and special instructions.
2. If you have special needs, you can consult our technology department.

12.Closures

Optical fiber closure is used for protecting the optical fiber fusion splicing head between two different optical cabers;a reserved section of optical fiber will be kept in the closure for maintenance purpose.

In according to environmental conditions,Optical fiber closure is divided into Closure for pole and Closure for tower; in according to the different shell material ,it is divided into plastic Closure and Metal Closure.

- 1) Plastic Closure is used for ADSS Cable
- 2) Compare with Plastic Closure,Metal Closure has many obvious advantages as mechanical strength ,leak tightness and corrosion resistance .it's usually used for OPGW
- 3) Horizontal type Joint-Box is mainly used for underground ,wall cross and pipeline well installation .Apply for direct or multiple connect or diverge of optic fiber cable drop-in,it is mostly used for ordinary optic cable.

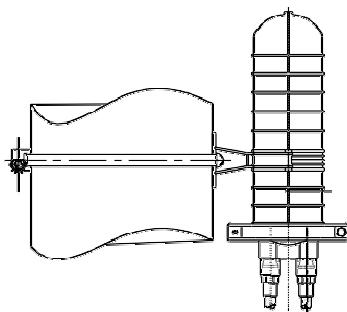
1. Joint Box



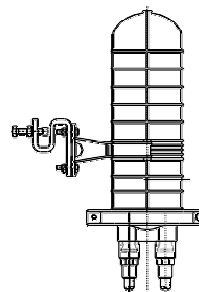
Cap-type Plastic Closure



Cap-type Metal Closure



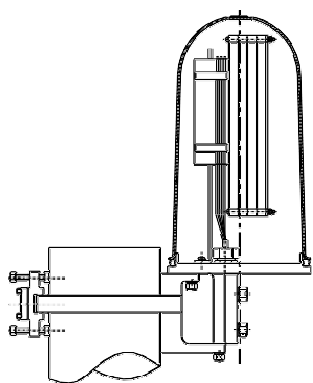
Cap-type Plastic Closure for Pole



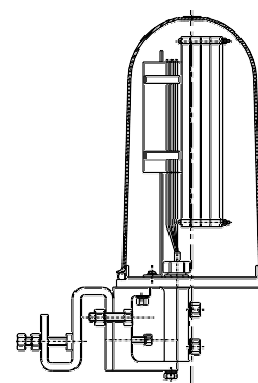
Cap-type Plastic Closure for Tower

Cap-type Plastic Closure:

Name	Model	Core No.	Weight (kg)	Remark
Input-1,Output-1 for ADSS Plastic Closure	AJS 02 012-*	12	1.8	
	AJS 02 024-*	24	1.8	
	AJS 02 036-*	36	1.8	
	AJS 02 048-*	48	1.8	
	AJS 02 072-*	72	1.8	
	AJS 02 096-*	96	1.8	
Input-2,Output-2 for ADSS Plastic Closure	AJS 04 012-*	12	1.8	Also Suitable for Input-2 ,Output-1
	AJS 04 024-*	24	1.8	
	AJS 04 036-*	36	1.8	
	AJS 04 048-*	48	1.8	
	AJS 04 072-*	72	1.8	
	AJS 04 096-*	96	1.8	



Cap-type Metal Closure for Pole



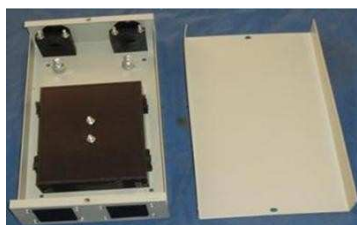
Cap-type Metal Closure for Tower

Cap-type Metal Closure:

Name	Model	Core No.	Weight (kg)	Remark
Input-1,Output-1 for OPGW Plastic Closure	PJJ 02 012-*	12	5.1	
	PJJ 02 024-*	24	5.1	
	PJJ 02 036-*	36	5.1	
	PJJ 02 048-*	48	5.1	
	PJJ 02 072-*	72	5.3	
	PJJ 02 096-*	96	5.3	
Input-2,Output-2 for OPGW Plastic Closure	PJJ 04 012-*	12	6.0	Also Suitable for Input-2 ,Output-1
	PJJ 04 024-*	24	6.0	
	PJJ 04 036-*	36	6.0	
	PJJ 04 048-*	48	6.0	
	PJJ 04 072-*	72	6.3	
	PJJ 04 096-*	96	6.3	

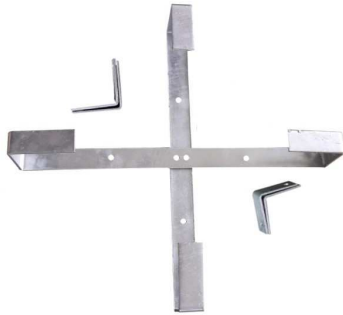
Note: G -- for pole, T -- for tower

2. Terminal Box



Name	Model	Core No.	Weight(kg)	Material
Terminal box	GPZ 12	12	0.96	Steel
Terminal box	GPZ 24	24	0.96	Steel
Terminal box	GPZ 36	36	0.96	Steel
Terminal box	GPZ 48	48	0.96	Steel
Terminal box	GPZ 72	72	0.96	Steel

13.Cable Storage Assembly



1、 Use:

Cable Storage Assembly is used for storage of reserved optical fiber cable.it is divided into inserted type storage and outside coil type storage.

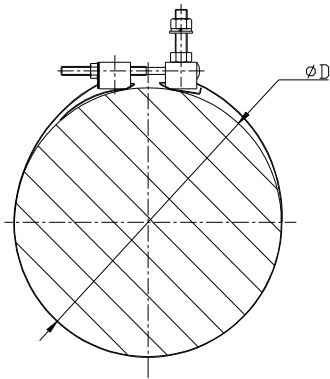
2、 Model:

Name	Model	Dimension		Collocation	Suitable Cable Range
		Diameter(m m)	Weight(kg)		
Cable Storage Assembl y	TJY 660-T	660	4.1	Small splint	Applicable to ADSS optical cable
	TJY 900-T	900	7.7	Small splint	Applicable to OPGW optical cable
	TJY 1030-T	1030	11.8	Small splint	Applicable to OPGW optical cable (OD>15mm)
Cable Storage Assembl y	TJY 660-H	660	4.1	Small splint	Applicable to ADSS optical cable
	TJY 900-H	900	7.7	Small splint	Applicable to OPGW optical cable
	TJY 1030-H	1030	11.8	Small splint	Applicable to OPGW optical cable (OD>15mm)

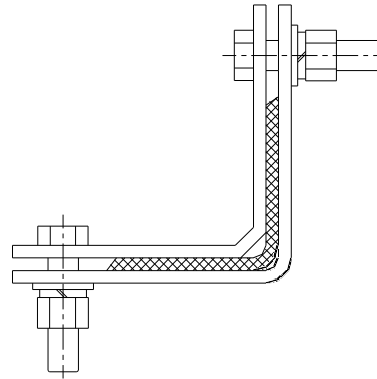
Explain:

1. T - G for tower - s * for pole - type of stainless steel band hoop
2. When the residual cable frame is used for the installation on the tower, two pairs of small splints are provided.
3. When the residual cable bracket is used for pole installation, two sets of pole supports are provided.

3、 Accessories for Cable Storage Assembly



Support for Pol



Small Splint

Purpose: the pole support for the residual cable frame is used for fixing the residual cable frame on the pole; the small splint is used for fixing the residual cable frame on the tower.

Specification of support for pole of cable support

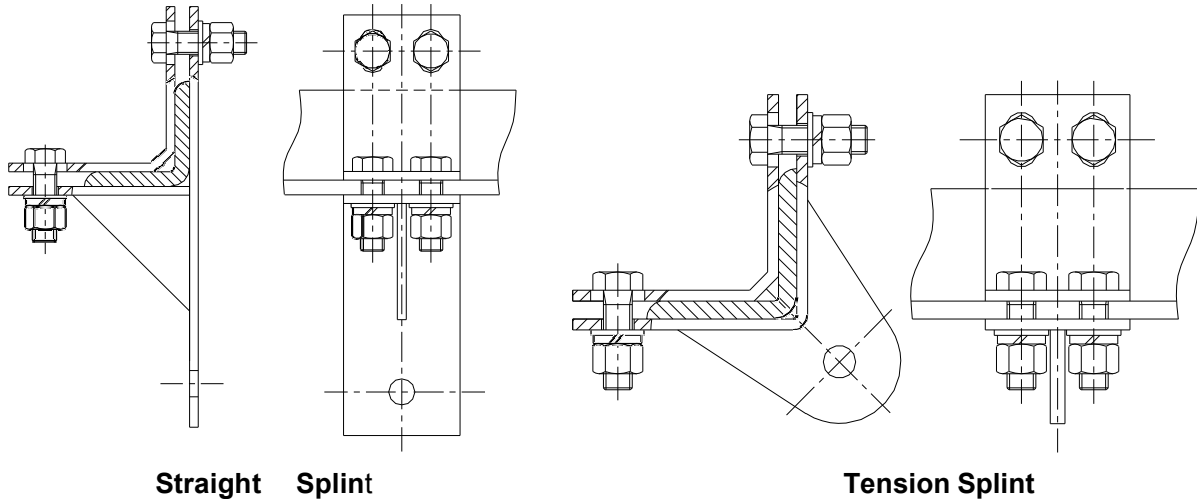
Name	Model	Pole Dia.(mm)	Weight(kg)	Material
Support for Pole	TJY-H1	150-310	0.48	Stainless Steel Strip
Support for Pole	TJY-H2	311-460	0.52	
Support for Pole	TJY-H3	461-600	0.57	
Support for Pole	TJY-H4	601-800	0.62	
Support for Pole	TJY-H5	801-1000	0.72	

Specification of small splint

Name	Model	Angle Iron Dimension for Iron Tower (mm)	Weight (kg)	Material
Small Splint	TJB-70	≤70	1.02	Hot dip galvanized steel
Small Splint	TJB-100	71-100	1.22	Hot dip galvanized steel
Small Splint	TJB-150	101-150	1.61	Hot dip galvanized steel

14.Immobility Clamp

1、Immobility Clamp



Purpose: for the connection of clamp on the tower.

The tension clamp plate is used for the installation of tension clamp; the straight clamp plate is used for the installation of suspension clamp.

Name	Model	Suitable Range	Weight(kg)	Material	Failing Load
Straight Splint	TGZ 080 070	Size of main material ≤ 80mm	3.55	Hot dip galvanized steel	70
	TGZ 100 070	Size of main material 81~ 100mm	3.85	Hot dip galvanized steel	70
	TGZ 125 070	Size of main material 101~ 125mm	4.15	Hot dip galvanized steel	70
	TGZ 145 070	Size of main material 126~ 145mm	4.45	Hot dip galvanized steel	70
	TGZ 165 070	Size of main material 146~ 165mm	4.85	Hot dip galvanized steel	70
	TGZ 200 070	Size of main material 166~ 200mm	5.01	Hot dip galvanized steel	70
Tension Splint	TGJ 080 070	Size of main material ≤ 80mm	2.8	Hot dip galvanized steel	100
	TGJ 100 070	Size of main material 81~ 100mm	3.1	Hot dip galvanized steel	100
	TGJ 125 070	Size of main material 101~ 125mm	3.5	Hot dip galvanized steel	100
	TGJ 145 070	Size of main material 126~ 145mm	3.8	Hot dip galvanized steel	100
	TGJ 165 070	Size of main material 146~ 165mm	4.5	Hot dip galvanized steel	100
	TGJ 200 070	Size of main material 166~ 200mm	5.0	Hot dip galvanized steel	100

15、Immobility Clamp for Pole

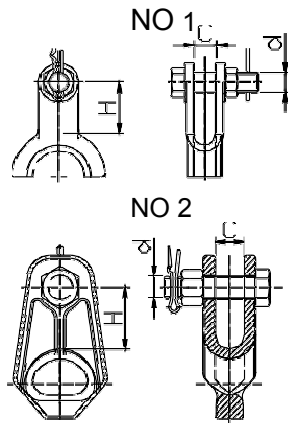
Application: it is used for fixing tension and suspension clamp on the pole.



Name	Model	Suitable Range	Weight(kg)	Material	Failing Load (kN)
Hoop	HBG 070 125	Pole diameter: 101~125mm	2.3	Hot dip galvanized steel	70
	HBG 070 150	Pole diameter: 126~150mm	2.5	Hot dip galvanized steel	70
	HBG 070 175	Pole diameter: 151~175mm	2.7	Hot dip galvanized steel	70
	HBG 070 200	Pole diameter: 176~200mm	2.9	Hot dip galvanized steel	70
	HBG 070 225	Pole diameter: 201~225mm	3.2	Hot dip galvanized steel	70
	HBG 070 250	Pole diameter: 226~250mm	3.4	Hot dip galvanized steel	70
	HBG 070 275	Pole diameter: 251~275mm	4.0	Hot dip galvanized steel	70
	HBG 070 300	Pole diameter: 276~300mm	4.2	Hot dip galvanized steel	70
	HBG 070 325	Pole diameter: 301~325mm	4.4	Hot dip galvanized steel	70
	HBG 070 350	Pole diameter: 326~350mm	4.6	Hot dip galvanized steel	70
	HBG 070 375	Pole diameter: 351~375mm	4.9	Hot dip galvanized steel	70
	HBG 070 400	Pole diameter: 376~400mm	5.1	Hot dip galvanized steel	70
	HBG 070 425	Pole diameter: 401~425mm	5.3	Hot dip galvanized steel	70
	HBG 070 450	Pole diameter: 426~450mm	5.5	Hot dip galvanized steel	70
	HBG 070 475	Pole diameter: 451~475mm	5.7	Hot dip galvanized steel	70
	HBG 070 500	Pole diameter: 476~500mm	6.0	Hot dip galvanized steel	70
	HBG 070 525	Pole diameter: 501~525mm	6.2	Hot dip galvanized steel	70
	HBG 070 550	Pole diameter: 526~550mm	6.4	镀锌钢	70
	HBG 070 575	Pole diameter: 551~575mm	6.6	镀锌钢	70
	HBG 070 600	Pole diameter: 576~600mm	6.8	镀锌钢	70

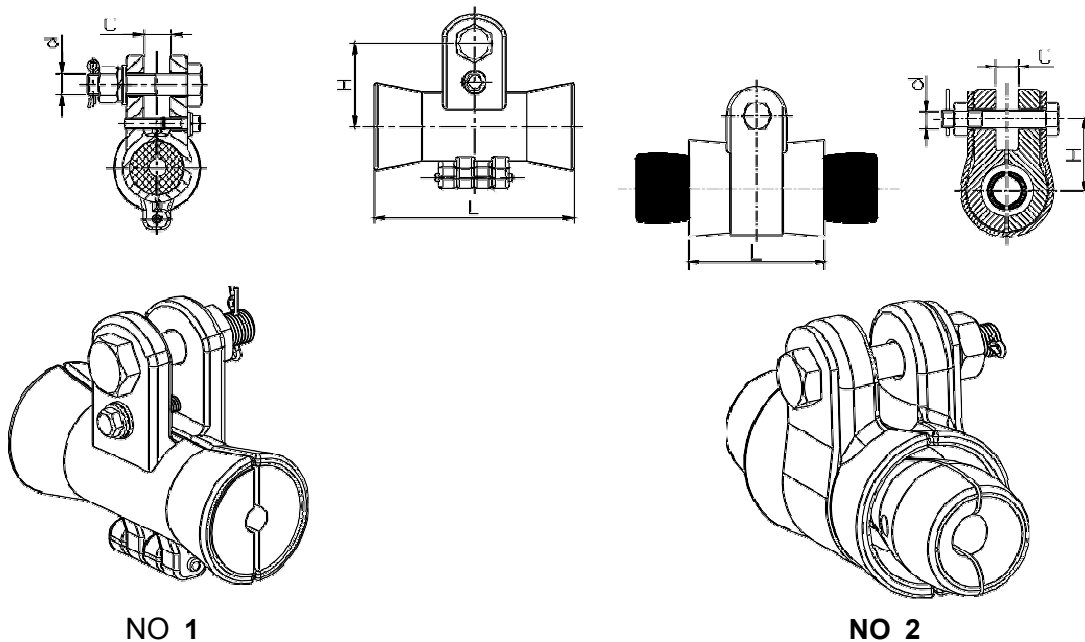
16.Composing Fittings

1、Thimble



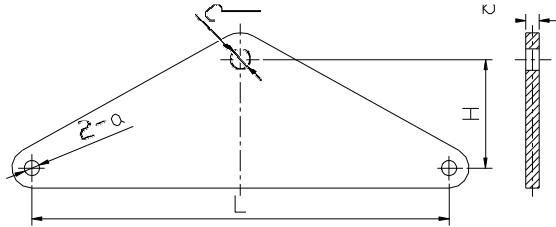
Model	Drawing No.	Main dimensions (mm)			Failing Load(kN)	Weight(kg)
		H	C	d		
TC 04	1	51	18	M16	40	0.50
TC 07	2	40	23	M16	70	0.90
TC 12	2	50	24	M16	120	1.30
TC 16	2	62	28	M18	160	1.70

2、 AGS Clamp



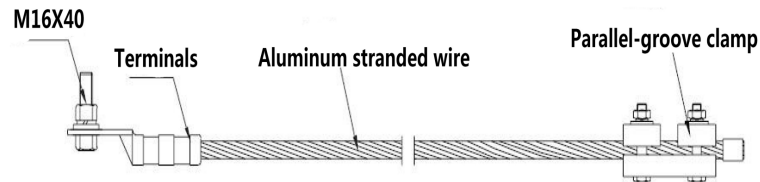
Name/Model	Main dimensions (mm)				Weight(kg)	Failing Load (kN)
	d	L	H	C		
AGS Clamp AGS-4	M16	90	50	20	1.17	40
AGS Clamp AGS-5	M16	95	55	20	1.28	70
AGS Clamp AGS-6	M16	114	60	22	1.70	100
AGS Clamp AGS-7	M16	125	65	22	1.97	120
AGS Clamp AGS-8	M18	140	70	24	2.60	130

3、Yoke Plate



Model	Main dimensions (mm)					Failing Load (kN)	Weight(kg)
	a	b	c	H	L		
L-1240	18	16	24	70	400	120	4.55
L-1250	18	16	24	130	500	120	7.66
L-1260	18	16	24	160	600	120	10.3

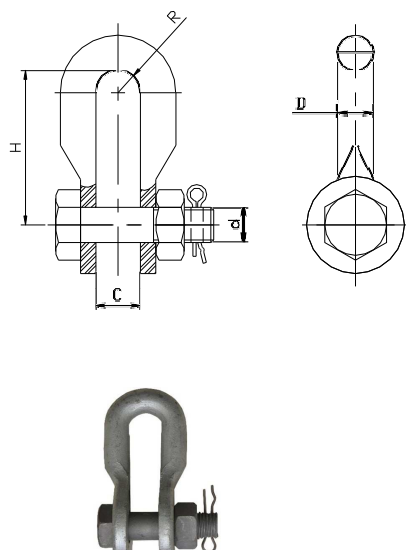
4、Ground Wire Clamp



Model	Set Diameter(mm)	Pole Dia.(mm)	Configuration		Weight(kg)
			Grounding Clamps Length (mm)	SetModel	
JDX70/1500	11.40 (79.39mm ²)	7.8-11.6	1500	D-116	0.95
JDX70/2000			2000		1.09
JDX70/2500			2500		1.23
JDX70/3000			3000		1.37
JDX95/1500	13.61 (109.72mm ²)	11.7-15.0	1500	D-150	1.11
JDX95/2000			2000		1.30
JDX95/2500			2500		1.49
JDX95/3000			3000		1.68
JDX150/1500	16.00 (152.80mm ²)	15.1-18.0	1500	D-180	1.56
JDX150/2000			2000		1.82
JDX150/2500			2500		2.09
JDX150/3000			3000		2.35

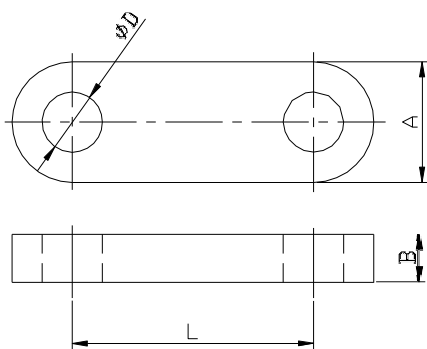
17.Appendix Link Fittings Parameter

U-Clevis



Model	Main dimensions (mm)					Failing Load (kN)	Weight(kg)
	c	d	D	H	R		
U-6	22	14	16	75	12	60	0.4
U-7	20	16	16	80	10	70	0.5
U-10	22	18	18	85	11	100	0.6
U-12	24	22	20	90	12	120	1.0
U-16	26	24	22	95	13	160	1.5
UL-7	20	16	16	120	22	70	0.7
UL-10	22	18	18	140	24	100	0.9
UL-12	24	22	20	140	18	120	1.1

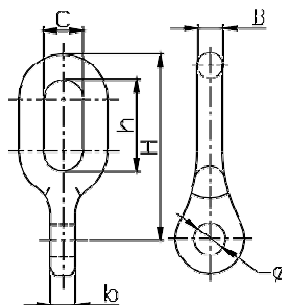
Shackle



Model	Main dimensions (mm)				FailingLoad (kN)	Weight(kg)
	B	D	L	A		
PD-7	16	18	70	40	70	0.5
PD-10	16	20	80	40	100	0.7
PD-12	16	24	100	40	120	0.9
PD-16	22	26	130	60	160	1.4

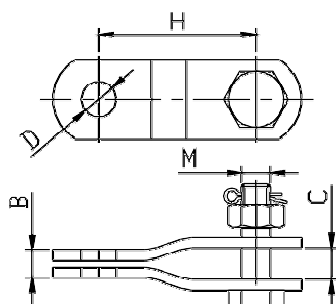


Eye Chain Link



Model	Main dimensions (mm)						FailingLoad (kN)	Weight(kg)
	C	h	H	b	B	φ		
ZH-7	24	57	95	16	16	20	70	0.5
ZH-10	24	57	100	16	18	20	100	1.1
ZH-12	24	65	115	16	18	24	120	1.2
ZH-16	26	75	135	18	22	26	160	1.8

PS-Shackle



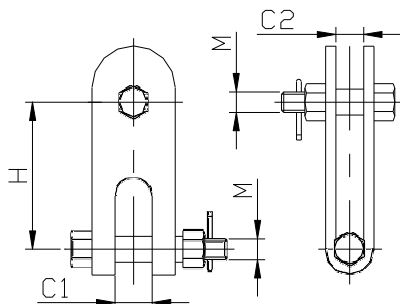
Model	Main dimensions (mm)					FailingLoad (kN)	Weight(kg)
	C	B	M	D	H		
PS-7	18	16	16	20	90	70	0.6
PS-10	20	18	18	20	90	100	0.9
PS-12	20	20	22	24	95	120	1.5
PS-16	26	24	24	26	155	160	2.2

Chain Link



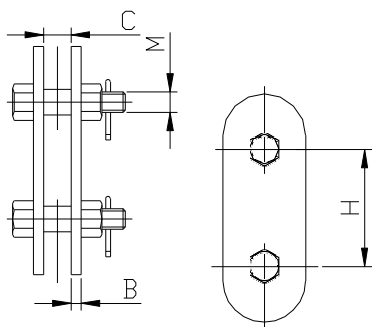
Model	Main dimensions (mm)			FailingLoad (kN)	Weight(kg)
	C	d	L		
PH-7	20	16	80	70	0.4
PH-10	22	18	100	100	0.6
PH-12	24	20	120	120	0.9
PH-16	26	22	140	160	1.5

Z-Shackle



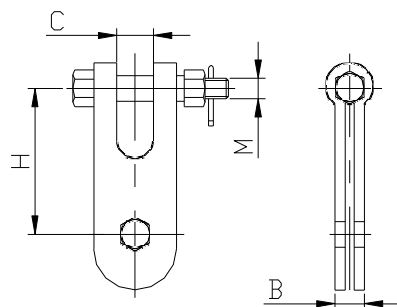
Model	Main dimensions (mm)				Failing Load (kN)	Weight (kg)
	C1	C2	M	H		
Z-7	18	18	16	60	70	0.6
Z-10	20	20	18	70	100	0.8
Z-12	24	24	22	80	120	1.3
Z-16	26	26	24	90	160	2.5

P-Shackle



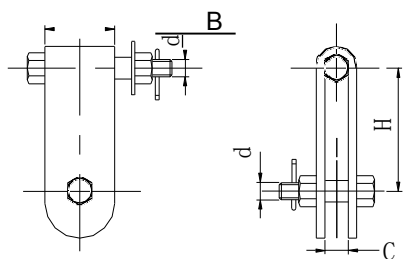
Model	Main dimensions (mm)				Failing Load (kN)	Weight (kg)
	B	C	M	H		
P-7	6	18	16	60	70	0.6
P-10	8	20	18	70	100	0.9
P-12	10	24	22	80	120	1.5
P-16	12	26	24	90	160	2.4

ZS-Shackle



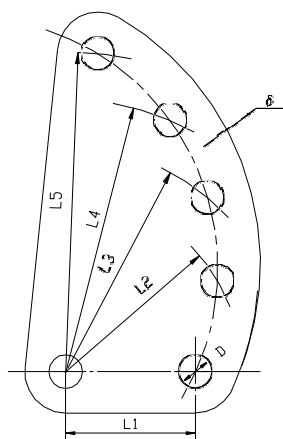
Model	Main dimensions (mm)					Failing Load (kN)	Weight (kg)
	C	B	M	D	H		
ZS-7	18	16	16	20	60	70	0.6
ZS-10	20	18	18	20	70	100	0.9
ZS-16	26	26	24	26	90	160	1.9

UB-Shackle

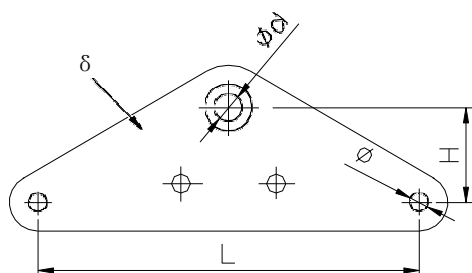


Model	Main dimensions (mm)				Failing Load (kN)	Weight (kg)
	c	d	H	B		
UB-7	18	16	70	45	70	0.75
UB-10	20	18	80	45	100	1.08
UB-12	24	22	100	60	120	2.28
UB-16	26	24	100	60	160	2.90

Sag.Adjusting Plate(Type DB)



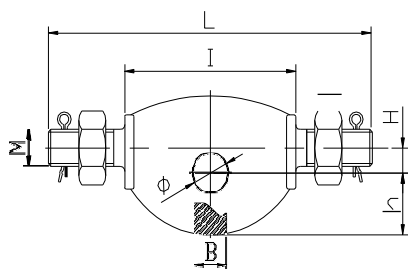
Yoke Plat



Model	Main dimensions (mm)							Failing Load (kN)	Weight (kg)
	D	δ	L1	L2	L3	L4	L5		
DB-7	18	16	70	95	120	145	170	70	1.70
DB-10	20	16	80	110	140	170	200	100	2.70
DB-12	24	16	100	135	170	205	240	120	3.20
DB-16	26	18	120	125	140	155	170	160	4.10

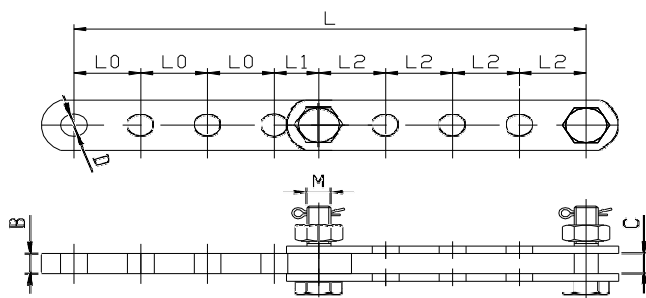
Model	Main dimensions (mm)				Failing Load (kN)	Weight (kg)
	δ	H	φ	L		
L-1040	16	70	18	400	100	4.4
L-1240	16	70	18	400	120	4.7
L-1640	18	100	20	400	160	5.9
L-2140	16	100	20	400	210	7.0
L-2540	16	110	24	400	250	9.0
L-3040	18	110	26	400	300	10.0

Twisted Strap(Type GD)



Model	Main dimensions (mm)							Failing Load (kN)	Weight (kg)
	L	I	φ	M	H	B	h		
GD-12	250	112	24	22	12	16	40	120	1.70
GD-12 A	250	130	24	22	8	22	40	120	1.60
GD-21 S	250	112	26	24	12	20	40	210	2.10

Adjusting Plate(TypePT)



Model	Main dimensions (mm)								Failing Load (kN)	Weight (kg)
	L0	L1	L2	M	D	B	C	L		
PT-07	45	30	45	16	18	16	18	225-345	70	2.0
PT-10	50	40	50	18	20	16	20	250-390	100	2.9
PT-12	60	45	60	22	24	16	24	300-465	120	5.2
PT-16	65	50	60	24	26	18	26	325-505	160	7.0