



ANBAO



Product Catalogue

Wire & Wire Products

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INDEX

	Page
Company Profile.....	1
Hot Dipped Galvanized Steel Wire	2
Electro Galvanized Steel Wire	2
Galvanized Steel Wire for ACSR (ACSR Core Wire-no joint).....	2
Galvanized steel wire for armouring cable (Cable Armour Wire)	5
Vineyard wire	5
Black annealed wire	6
Bright annealed wire (Oxygen Free Iron Wire).....	6
Phosphated spring steel wire	7
Stainless Steel Wire	7
Wire Strands	8
Stay Wire	8
Guy Wire.....	10
Steel Wire Rope	11
Tension Cable	16
ECCS Tape	22
Guy Grip	23
Process and Factory photos	24

ANBAO Corp. got its inception in 1996 and was headquartered in the beach city Qinhuangdao. We are a metal expert specializing in the manufacture of various wire products, such as steel wires, wire strands, wire rope, wire meshes and steel nails. We have built up five factories and one sales company in China, with a total manufacture complex of 200,000 square meters and a staff number of 1,200.



Every year, we produce 120,000 tons of wires, 30,000 tons of steel strands, 30,000 tons of steel wire rope, 12 million square meters of steel mesh and 10,000 tons of nails. 95% of our steel wire products are exported to more than 80 countries and regions and are mainly used in power cables, architecture, forestry, fishery, automobiles, packaging and so forth.



Our company passed ISO9001 certificate.

We win customer's trust and satisfaction by optimal quality, professional service and reasonable price.

Our top-notch team will reply you within one working day.

Hot Dipped Galvanized Steel Wire

Size: 0.15mm ~ 8.00mm

Commercial Galvanized, Heavy Galvanized Steel Wire

Tensile Strength: Soft Annealed and high tensile strength also available

Zinc coating: 12~850g/m²

Application: Weaving, Braiding, Fencing, Tie Wire, for Cable armoring, ACSR Core wire, Rope wire



Electro Galvanized Steel Wire

Size: 0.25mm ~ 4.00mm

Zinc Coating: Min. 5~50g/m²

Tensile Strength: Soft annealed and high tensile strength

Application: Weaving, Braiding, Fencing, tie wire in building or for further straightened and cut into cut wire or U type wire.

Galvanized Steel Wire for ACSR (ACSR Core Wire, no joint)

Size: 1.25mm ~ 4.77mm

Material: high carbon steel.

Application: for manufacture of ACSR Cable & Conductor ACSR Core wire

both Spool-type and Coil-type packing are available:

Normal Coils: 5~25kgs with 6"~8" coil ID,

25-50kgs coils with 12"~18" coil ID

Rosette Coils: Weight from 150kgs~800kgs, Coil ID/OD:

ID250mm/OD400mm ID390mm/OD660mm

ID500mm/OD800mm ID330mm/OD600mm

ID400mm/OD660mm ID508mm/OD840mm

ID340mm/OD500mm ID400mm/OD770mm

ID560mm/OD810mm ID340mm/OD590mm

ID410mm/OD600mm ID355mm/OD660mm

ID430mm/OD760mm ID360mm/OD570mm

ID450mm/OD700mm ID450mm/OD800mm

Spools Type:

DIN100 1.5kgs DIN125 3kgs

DIN160, 5kgs DIN200 14kgs

DIN250, 20kgs DIN355 40kgs

BB20, 18kgs BB35 30kgs

MP100 90-100kgs FB100 90-100kgs

RP400 500kg

Other coil sizes and spool or reel sizes available.



	BS		ASTM	IEC	IEC
ACSR	BS 4565-90	EN 50189-2000	B498-93	888 Regular	888 Regular

ASTM B498 - 93

Nominal Diameter mm		Size Tolerance mm		Ultimate Tensile Strength Min		Stress at 1 % Extension Min		% Elongation Min	Zn coating Min	Wrapping Mandrel Dia
From	To - Incl.	+	-	MPa	Kg/mm ²	MPa	Kg/mm ²	GL = 250 mm	g/m ²	mm
1.270	1.521	0.038	0.025	1450	148	1310	133	3	183	3d
1.524	1.902	0.038	0.025	1450	148	1310	133	3	198	3d
1.905	2.283	0.038	0.025	1450	148	1310	133	3	214	3d
2.286	2.639	0.051	0.051	1410	144	1280	130	3.5	229	4d
2.642	3.045	0.051	0.051	1410	144	1280	130	3.5	244	4d
3.048	3.553	0.076	0.051	1410	144	1240	126	4	259	4d
3.556	4.569	0.102	0.076	1380	141	1170	119	4	274	5d
4.572	4.822	0.102	0.076	1380	141	1170	119	4	305	5d

Zn COATING - BS 443 : 1982

Wire of tensile strength 540N/mm² and above

Nominal Diameter mm		Minimum mass of Zn coating	Number Of min Dips
From	- Incl. To	g/m ²	1 minute
1.18	1.32	170	2
1.32	1.55	180	2
1.55	1.8	200	2
1.8	2.24	215	2
2.24	2.72	230	2-½
2.72	3.15	240	3
3.15	3.55	250	3
3.55	4.25	260	3
4.25	5	275	3-½
5	5.5	290	3-½



IEC 888- 1987 - CLASS 1 COATING

Regular Grade

Nominal Diameter mm		Size Tolerance mm	Ultimate Tensile Strength min		Stress at 1 % Extension min		% Elongation min	TORSION	Zn coating min	Wrapping Mandrel Dia
From	To - Incl.	+/-	N/mm ²	Kg/mm ²	N/mm ²	Kg/mm ²	GL= 250 mm	GL = 100xd	g/m ²	(X x OD)
1.24	1.50	0.03	1340	137	1170	119	3	18	185	1
1.50	1.75	0.03	1340	137	1170	119	3	18	200	1
1.75	2.25	0.03	1340	137	1170	119	3	18	215	1
2.25	2.75	0.04	1310	134	1140	116	3	16	230	1
2.75	3.00	0.05	1310	134	1140	116	3.5	16	230	1
3.00	3.50	0.05	1290	132	1100	112	3.5	14	245	1
3.50	4.25	0.06	1290	132	1100	112	4	12	260	1
4.25	4.75	0.06	1290	132	1100	112	4	12	275	1
4.75	5.50	0.07	1290	132	1100	112	4	12	290	1

BS 4565-90

Tensile strength grade, N/mm ² , min.		1500			1700			1800		
Nominal diameter of galvanized wire		Min. stress at 1% elongation	Min. Elongation L=200mm	Steel wrap test dia.	Min. stress at 1% elongation	Min. Elongation L=200mm	Steel wrap test dia.	Min. stress at 1% elongation	Min. Elongation L=200mm	Steel wrap test dia.
Over	Up to and including									
mm	mm	N/mm ²	%		N/mm ²	%		N/mm ²	%	
1.18	1.32	1260	3.0	1d*	1320	3.0	2d*	1370	3.0	3d*
1.32	1.80	1260	3.5	1d	1320	3.0	2d	1370	3.0	3d
1.80	2.24	1260	3.5	2d	1320	3.0	2d	1370	3.0	3d
2.24	2.72	1260	3.5	2d	1320	3.5	3d	1370	3.0	3d
2.72	2.90	1260	3.5	2d	1320	3.5	3d	1370	3.0	3d
2.90	4.00	1260	4.0	3d	1320	3.5	3d	-	-	-
4.00	5.00	1260	4.0	3d	-	-	-	-	-	-

*d=nominal diameter of galvanized wire.
 L=original gauge length.



Galvanized steel wire for armouring cable (Cable Armour Wire)

Size: 0.90mm, 1.25mm, 1.60mm, 2.00mm, 2.50mm, 3.15mm, 4.00mm;

0.87mm, 1.21mm, 1.54mm, 1.94mm, 2.43mm, 3.05mm, 3.80mm

Material: Low carbon steel

Tensile strength: 340-500 N/mm² for all sizes

Elongation: Min.10% for all sizes

Packing: jumbo coil, Inner 4 metal strips and 4 D-ring with plastic bag and PE woven cloth outside.

Standard: according to BS EN10257-1, EN10244-2 (BS443, BS5467, BS1442),

Sizes	Tolerance (mm)	Tensile strength (N/mm ²)	Elongation at 250mm gauge (Min.)	Zinc coating g/m ²	Elec. Resistance at 20°C (Max.)	Coil ID (mm)	Coil Wt. (Kg)
0.90mm	± 0.035	340-500	10%	Min.155	216.92Ω/km	350-500	400-500
1.25mm	± 0.040	340-500	10%	Min.180	112.45Ω/km	350-500	400-500
1.60mm	± 0.045	340-500	10%	Min.195	68.64Ω/km	350-500	500-600
2.00mm	± 0.050	340-500	10%	Min.215	43.93Ω/km	350-500	500-600
2.50mm	± 0.060	340-500	10%	Min.245	28.11Ω/km	350-500	500-600
3.15mm	± 0.070	340-500	10%	Min.255	17.71Ω/km	350-500	500-600
4.00mm	± 0.070	340-500	10%	Min.275	10.98Ω/km	350-500	500-600



Vineyard Wire

Size: 1.60mm-4.0mm

Coating: Zinc Coated or Galfan Coated

Tensile strength: Low carbon 450-600N/mm²;

High carbon 1160-1510N/mm²

Specification: ASTM A641, EN10244-2 or BS443 coating

Packing: 5x100lbs or 10x100lbs or 15x25kg;

Normal coils or Traverse coils





Black annealed wire

Size: 0.20mm~5.00mm (wire gauge 5# to 36#)

Material: low carbon steel

Application: weaving, binding, tie wire in building or for further straightened and cut into cut wire or U type wire.

Packing: Spool, normal coil, orbit coil etc.



Wire Gauge	SWG in mm	BWG in mm	In Metric System mm
8#	4.06	4.19	4.00
9#	3.66	3.76	-
10#	3.25	3.40	3.50
11#	2.95	3.05	3.00
12#	2.64	2.77	2.80
13#	2.34	2.41	2.50
14#	2.03	2.11	-
15#	1.83	1.83	1.80
16#	1.63	1.65	1.65
17#	1.42	1.47	1.40
18#	1.22	1.25	1.20
19#	1.02	1.07	1.00
20#	0.91	0.89	0.90
21#	0.81	0.813	0.80
22#	0.71	0.711	0.70

Bright annealed wire (Oxygen Free Wire)

Size: 0.20mm ~5.00mm

Material: low carbon steel, annealed with shielding gas.

Tensile strength: 300-450N/mm²

Coating : UN-galvanized

Application: binding, weaving.

Packing: Spool, normal coil, orbit coil etc.



Annealed with shielding gas (Oxygen Free Annealed)

Phosphated spring steel wire

Application: mattress spring, torsion spring, mechanical spring, wire forms or hard needle.

Standard: DIN17223-1-1984, EN10270-1, ASTM-A227, GB4357-89 or according to customer's special requirement.

Size: 0.30mm-14.0mm

Specifications:

(1) 0.30mm-13.00mm

to comply with DIN17223-1-1984 Class B

(2) 0.30mm-3.50mm

to comply with DIN17223-1-1984, Class C, EN10270-SH

(3) 0.30mm-2.00mm

to comply with DIN17223-1-1984 Class D

(4) 0.30mm-13.00mm

to comply with ASTM-A227 grade I and II

(5) lightly-oiled or heavily-oiled subject to requirement.

Packing: in coil or in carrier

Coil weight: 5-1000kgs depends on different sizes



Stainless Steel Wire

Grade: 201, 202, 301, 303, 304, 304L, 316, 316L, 321, 410, 420, 430 etc.

Diameter: 0.025-18mm

Surface: bright, plain, black, dull and EPQ quality

Type: spring, welded, tig, mig etc soft and hard

Tensile strength: soft (650-850N/mm²)

hard (around 2000N/mm²)

Packing: 25-500kg/coil, coil ID 12", 14", 16", 18"

Various Spool available: DIN125, DIN160, DIN200, DIN250, PT90, On steel stand 500kg, In drum 100kg or 250kg or as customers' request.

Standard: ASTM A580, ASTM A313 etc.

Quality assurance: Mill Test Certificate is supplied with shipment, third Party Inspection is acceptable

Item NO.	DIAMETER (MM)	TENSILE STRENGTH (MPa)	TORSIONS Min./360°
1	0.30mm	2010-3000	20
2	0.45mm	2200-2600	20
3	0.50mm	2200-2600	20
4	0.55mm	2150-2550	20
5	0.60mm	2110-2500	20
6	0.70mm	2060-2450	20
7	0.80mm	2010-2400	20
8	0.90mm	2010-2350	20
9	1.00mm	1960-2300	20
10	1.20mm	1910-2250	20
11	1.40mm	1860-2210	20
12	1.60mm	1810-2160	20
13	1.80mm	1760-2110	15
14	2.00mm	1710-2010	15
15	2.30mm	1660-1960	15
16	2.60mm	1660-1960	15
17	2.90mm	1620-1910	12
18	3.20mm	1570-1860	12
19	3.60mm	1570-1810	12
20	4.00mm	1570-1810	
21	4.50mm	1520-1710	
22	5.00mm	1470-1710	
23	5.50mm	1470-1710	
24	6.0mm-8.0mm	1370-1660	
25	9.0mm-14.0mm	1130-1420	



Wire Strands

Stay Wire

Stay Wires are galvanized steel wire strands that are used for sustaining mechanical load. Generally they are made up of 6 wires stranded around 1 wire, twisting 7 wires together. A common use for stay wires is in the electricity industry, using the wire to stay power poles and tower structures.

Material: The wire is cold drawn from steel and coated with zinc, the finish strand and the individual wires having uniform quality and have the properties and product characteristics as specified in technical specification.

Construction: 7 Strand (6+1)

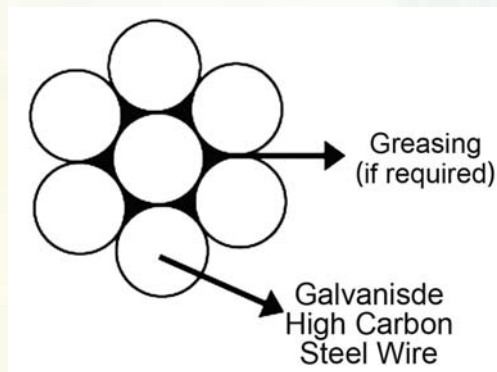
Specification: BS:183 or other customer specified specifications

Size: 7/1.60 to 7/4.0mm



COIL SPECIFICATIONS:

Grade	Tensile Grade	Min. Tensile Strength (N/mm ²)
1	1770	1770
2	1570	1570
3	1100	1100
4	700	700
5	450	450



Construction Number of wires/wire diameter	Approximate strand diameter	Minimum breaking load of strand							Approx. mass
		Grade 350	Grade 480	Grade 700	Grade 850	Grade 1000	Grade 1150	Grade 1300	
	mm	KN	KN	KN	KN	KN	KN	KN	Kg/1000m
3/1.80	3.9	2.65	3.66	-	-	-	-	-	60
3/2.65	5.7	5.80	7.95	-	-	-	-	-	130
3/3.25	7.0	8.70	11.95	-	-	-	-	-	195
3/4.00	8.6	13.20	18.10	-	-	-	-	-	295
4/1.80	4.4	3.55	4.90	-	-	-	-	-	80
4/2.65	6.4	7.70	10.60	-	-	-	-	-	172
4/3.25	7.9	11.60	15.90	-	-	-	-	-	260
4/4.00	9.7	17.60	24.10	35.20	-	-	-	-	390

5/1.50	4.1	3.10	4.24	6.18	-	-	-	-	69
5/1.80	4.9	4.45	6.10	8.90	-	-	-	-	95
5/2.65	7.2	9.65	13.25	19.30	-	-	-	-	220
5/3.25	8.8	14.50	19.90	29.00	-	-	-	-	320
5/4.00	10.8	22.00	30.15	43.95	-	-	-	-	490
7/0.56	1.7	0.6	0.83	1.20	-	1.70	1.98	2.24	14
7/0.71	2.1	0.97	1.33	1.94	-	2.75	3.19	3.60	28
7/0.85	2.6	1.39	1.90	2.80	-	3.95	4.57	5.15	31
7/0.90	2.7	1.55	2.14	3.10	-	4.45	5.12	5.80	35
7/1.00	3.0	1.92	2.64	3.85	-	5.50	6.32	7.15	43
7/1.25	3.8	3.01	4.10	6.00	-	8.55	9.88	11.15	67
7/1.40	4.2	3.75	5.17	7.54	9.16	10.75	12.35	14.00	84
7/RS ⁺	4.3	3.85	5.28	7.70	9.35	11.00	12.65	14.30	86
7/1.6	4.8	4.90	6.75	9.85	11.95	14.10	16.20	18.30	110
7/1.8	5.4	6.23	8.55	12.45	-	17.80	20.50	23.20	140
7/2.00	6.0	7.70	10.55	15.40	-	22.00	25.30	38.60	170
7/2.36	7.1	10.70	14.70	21.40	-	30.60	35.20	39.80	240
7/2.65	8.0	13.50	18.50	27.00	-	38.60	44.40	50.20	300
7/3.00	9.0	17.30	23.75	34.65	-	49.50	56.90	64.30	392
7/3.15	9.5	19.10	26.20	38.20	-	54.55	62.75	70.90	430
7/3.25	9.8	20.30	27.85	40.65	-	58.05	66.80	75.50	460
7/3.65	11.0	25.60	35.15	51.25	-	73.25	84.20	95.20	570
7/4.00	12.0	30.90	42.20	61.60	-	88.00	101.0	114.0	690
7/4.25	12.8	34.75	47.65	69.50	-	99.30	114.0	129.0	780
7/4.75	14.0	43.40	59.45	86.80	-	124.0	142.7	161.3	970
19/1.00	5.0	5.22	7.16	10.45	-	14.92	17.16	19.40	120
19/1.25	6.3	8.16	11.19	16.32	-	23.32	26.81	30.31	180
19/1.40	7.0	10.24	14.04	20.47	-	29.25	33.64	38.02	230
19/1.60	8.0	13.37	18.34	26.75	-	38.20	43.93	49.66	300
19/2.00	10.0	20.90	28.65	41.78	50.74	59.69	68.64	77.60	470
19/2.50	12.5	32.65	44.80	65.29	79.28	93.27	107.3	121.3	730
19/3.00	15.0	47.00	64.50	94.00	114.1	134.3	154.5	174.6	1050
19/3.55	17.8	65.80	90.27	131.6	159.9	188.0	216.3	244.5	1470
19/4.00	20.0	83.55	114.6	167.1	203.0	283.7	274.6	310.4	1870
19/4.75	23.8	117.85	161.6	235.7	286.0	336.7	387.2	437.7	2630

+: The construction of this strand consists of six wires of 1.40 mm diameter on a centre wire of 1.50 mm diameter. The diameter of the centre wire shall not be less than 0.08 mm nor more than 0.12 mm greater than the diameter of the outer wire.

PACKING:

The galvanized steel stay strand protected with paper/polythene/HDPE and outside wooden laggin on drum/reel.

Guy Wire

Guy wire or guy-line, guy-rope, is a tensioned cable designed to add stability to a free-standing structure.

Quality can meet the ASTM A-475 or other international standards.

Composition: It comprises of one or more zinc coated steel wires featuring tensile strength ranging from 35 Kg/mm² to 180 Kg/mm², making them suitable for every application.

Application Area:

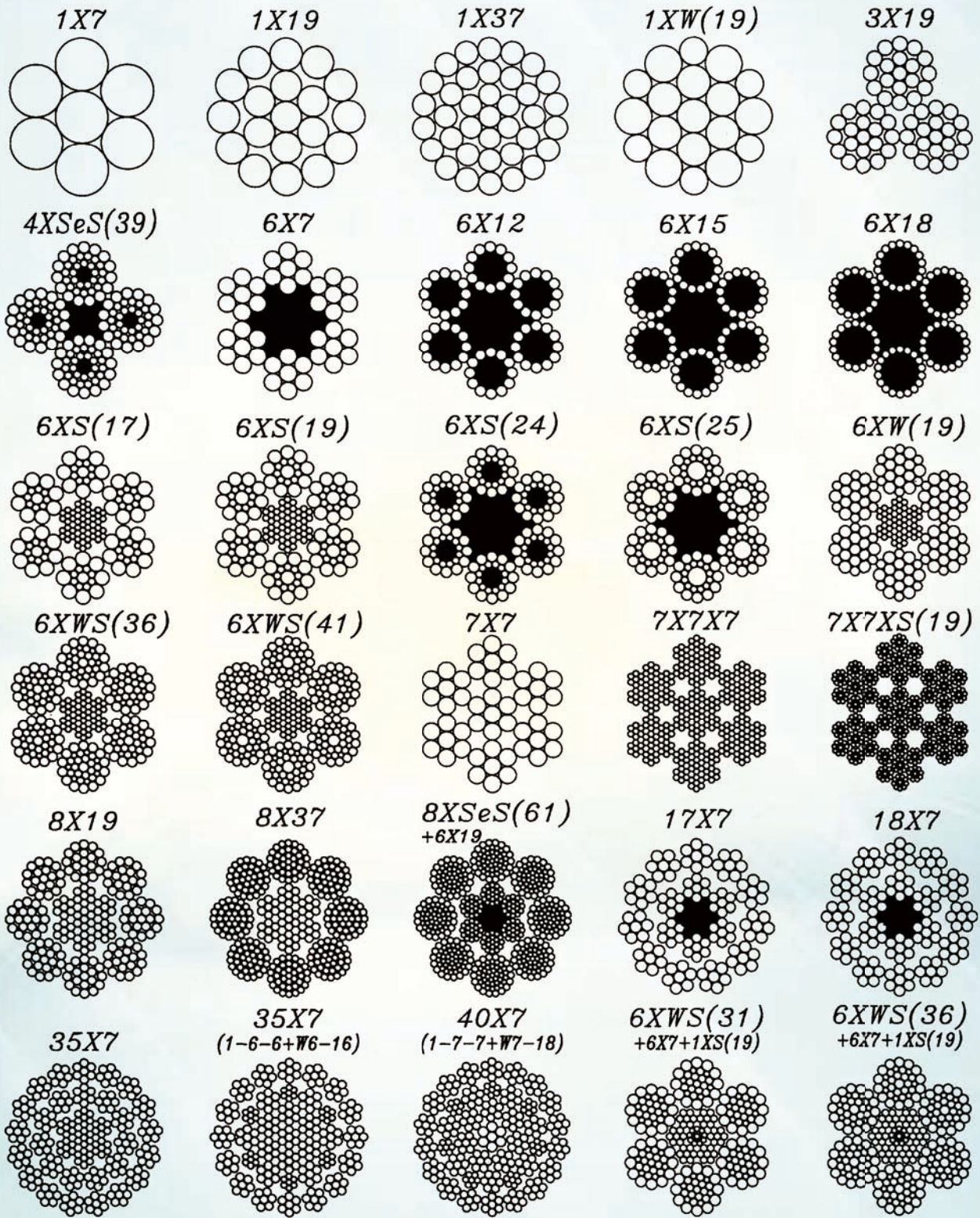
Radio masts, wind turbines, utility poles, fire service extension ladders



ASTM A475 Specifications For Zinc-Coated Steel Wire Strand

Nominal Diameter of Strand, in. (mm)		Number of Wires in Strand	Nominal Diameter of Coated Wires in Strand (mm)	Approximate Weight of Strand, lb/1000 ft (kg/ 304.8 m)		Minimum Breaking Strength of Strand (KN)				
						Utilities Grade	Common Grade	Siemens-Martin Grade	High-Strength Grade	Extra High-Strength Grade
1/8	(3.18)	7	1.04	32	(15)	---	2.402	4.048	5.916	8.140
5/32	(3.97)	7	1.32	51	(23)	---	3.870	6.539	9.519	13.078
3/16	(4.76)	7	1.57	73	(33)	---	5.115	8.452	12.677	17.748
3/16	(4.76)	7	1.65	80	(36)	10.676 (1)	---	---	---	---
7/32	(5.56)	3	2.64	88	(40)	---	6.228	10.409	15.569	21.796
7/32	(5.56)	7	1.83	98	(44)	---	6.850	11.387	17.126	24.020
1/4	(6.35)	3	3.05	117	(53)	14.012 (2)	8.274	13.523	21.040	29.981
1/4	(6.35)	3	3.05	117	(53)	20.017 (3)	---	---	---	---
1/4	(6.35)	7	2.03	121	(55)	---	8.452	14.012	21.129	29.581
9/32	(7.14)	3	3.30	137	(62)	---	9.252	15.035	23.398	33.362
9/32	(7.14)	7	2.36	164	(74)	20.462 (1)	11.432	18.905	28.469	39.812
5/16	(7.94)	3	3.68	171	(78)	28.913 (3)	11.076	18.193	28.246	40.479
5/16	(7.94)	7	2.64	205	(93)	---	14.234	23.798	35.586	49.820
5/16	(7.94)	7	2.77	225	(102)	26.689 (1)	---	---	---	---
3/8	(9.52)	3	4.19	220	(100)	37.810 (3)	14.813	24.732	37.187	52.489
3/8	(9.52)	7	3.05	273	(124)	51.155 (4)	18.905	30.915	48.040	68.503
7/16	(11.11)	7	3.68	399	(181)	80.068 (4)	25.355	41.591	64.499	92.523
1/2	(12.70)	7	4.19	517	(234)	111.206 (4)	32.917	53.823	83.627	119.657
1/2	(12.70)	19	2.54	504	(229)	---	33.895	56.492	84.961	118.768
9/16	(14.29)	7	4.78	671	(304)	---	42.703	69.837	108.981	155.688
9/16	(14.29)	19	2.87	637	(289)	---	42.881	71.616	107.202	149.905
5/8	(15.88)	7	5.26	813	(369)	---	51.599	84.961	131.667	188.605
5/8	(15.88)	19	3.18	796	(361)	---	48.930	80.513	124.995	178.819
3/4	(19.05)	19	3.81	1 155	(524)	---	71.172	116.543	181.487	259.331
7/8	(22.22)	19	4.50	1 581	(717)	---	97.416	116.543	248.211	354.523
1	(25.40)	19	5.08	2 073	(940)	---	127.664	209.066	325.610	464.839
1	(25.40)	37	3.63	2 057	(933)	---	125.885	205.508	319.827	456.832
1-1/8	(28.58)	37	4.09	2 691	(1 221)	---	160.136	262.000	407.457	581.827
1-1/4	(31.75)	37	4.55	3 248	(1 473)	---	198.391	324.720	505.318	721.502

Steel Wire Rope



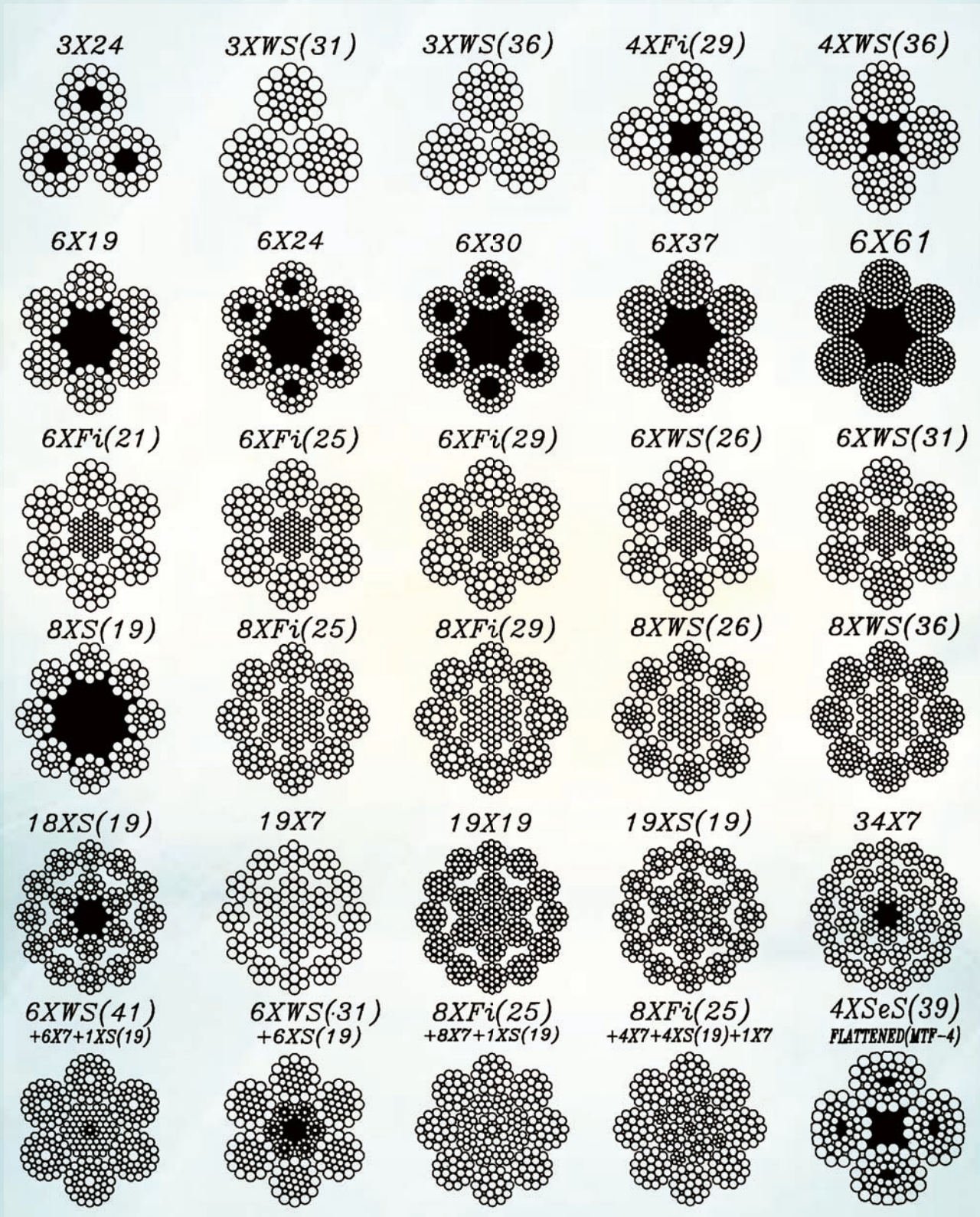


Table of Recommendations

[Cranes]

1. Tower Cranes, Travelling Cranes, Portal Cranes, Trolleys

- Hoisting ropes ————— 19 x 7 or 18 x 7
35 x 7 or 34 x 7
4 x 39 (SES) + FC
8 x WS (31) + IWRC, 8 x WS (36)
+ IWRC
- Trolley lines ————— 6 x WS (36) + IWRC
6 x 19SL + IWRC
19 x 7 or 18 x 7

2. Cranes with 1-part Ropes, Travelling Cranes (without clamshell) Derricks (running rigging)

- Hoisting ropes ————— 6 x WS (36) + IWRC
18 x 7 or 19 x 7
18 x S (19) or 19 x S (19)
- Boom and topping line ————— 6 x Fi (21) + IWRC, 6 x Fi (25) + IWRC
4 x 39 (SES) + FC

3. Slipway Ropes

- Winch ropes ————— 6 x Fi (25) + IWRC

4. Electric Hoists ————— 6 x WS (36) + FC or IWRC

18 x 7 or 19 x 7
18 x S (19) or 19 x S (19)

5. Loading and Unloading Bridges, Clamshell Cranes

- Holding and closing lines ————— 6 x WS (36) + IWRC
8 x Fi (25) + IWRC 8 x WS (31) + IWRC
8 x WS (36) + IWRC
- Boom hoist ————— 6 x WS (36) + IWRC
8 x WS (31) + IWRC
- Trolley lines ————— 6 x Fi (25) + IWRC
8 x WS (31) + IWRC

6. Floating Derricks

- Main and top tackle ropes ————— 6 x WS (36) + FC or IWRC
8 x WS (31) + IWRC
- Luffing ————— 6 x Fi (25) + IWRC
- Runners ————— 6 x WS (36) + FC or IWRC
- Anchor ropes ————— 6 x Fi (25) + FC or IWRC
- Mooring ropes ————— 6 x Fi (25) + FC or IWRC
- Luffing stay-wires jib stay-wires 7 x 19, 7 x 37

[Earth Moving Equipment]
1. Draglines

- Hoisting ropes ————— 6 x Fi (21) + IWRC, 6 x Fi (25) + IWRC
6 x WS (36) + IWRC
- Boom lines ————— 6 x Fi (21) + IWRC, 6 x Fi (25) + IWRC
- Drag line ————— 6 x S (19) + IWRC, 6 x Fi (21) + IWRC
6 x Fi (25) + IWRC
- Pennants ————— 6 x Fi (21) + IWRC, 6 x Fi (25) + IWRC

2. Clamshell

- Holdig and closing line ————— 6 x WS (36) + IWRC
8 x Fi (25) + IWRC, 8 x WS (31) + IWRC
8 x WS (36) + IWRC
- Boom line ————— 6 x Fi (21) + IWRC, 6 x Fi (25) + IWRC

3. Shovels

- Hoists ————— 6 x WS (36) + IWRC
8 x WS (31) + IWRC
- Digging line ————— 8 x WS (31) + IWRC
- Crowd rope ————— 8 x WS (31) + IWRC
- Guy line and boom line ————— 7 x 19, 6 x Fi (25) IWRC

4. Bulldozers ————— 6 x Fi (25) + IWRC
5. Dredges

- Bow line, stern line, side line ————— 6 x S (19) + FC or IWRC
6 x Fi (25) + FC or IWRC
8 x S (19) + IWRC
- Ladder hoists ————— 6 x WS (36) + FC or IWRC
8 x WS (31) + IWRC, 8 x WS (36) + IWRC
8 x WS (41) + IWRC
- Barge handling ropes ————— 6 x Fi (25) + FC, 6 x WS (36) + FC
- Runners, boom lines, swing line ————— 6 x Fi (25) + FC Or IWRC
6 x WS (36) + FC or IWRC
- Guy line ————— 7x19, 7 x 37
- Mooring ropes ————— 6 x 24 + 7 FC

Hercules rope, Springlay rope

- Large mooring ropes ————— 6 x 24 + 7 FC

Hercules rope
[Logging Industry]

- Recommended types of rope —————6 x Fi (25) + IWRC
- In case of early fatigue —————6 x WS (31) + IWRC
- In case of heavy wear or deterioration —————6 x S (19) + IWRC

[Shipping]

1. Inland Vessels

- Mooring ropes Hercules rope —————6 x 12 + 7 FC, 6 x 24 + 7 FC
- Towing ropes —————6 x 19 + 1 FC
6 x 24 + 7 FC
- Anchor lines —————6 x 24 + 7 FC
6 x WS (36) + 1 FC
- Rigging—————7 x 7, 7 x 19
- Boom lines —————6 x Fi (25) + FC
- Runners —————6 x Fi (25) + FC, 6 x WS (36) + FC
- Twin crane —————4 x 39 (SES) + FC

2. Ocean-going Vessels

- Mooring ropes—————6 x 24 + 7 FC, 6 x 37 + FC
6 x WS (36) + FC
- Towing ropes —————6 x 24 + 7 FC, 6 x 37 + FC
6 x WS (36) + FC or IWRC
- Loading gear —————6 x WS (36) + FC or IWRC
8 x WS (31) + IWRC
- Anchor lines—————6 x 24 + 7 FC
- Rigging —————7 x 7, 7 x 19

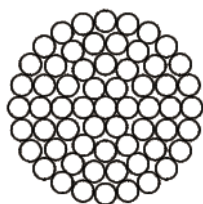
3. Ocean-going Tugs

- Towing ropes —————6 x WS (36) + FC or IWRC
- Mooring ropes—————6 x 24 + FC
(For automatic mooring installations)
6 x WS (36) + FC

4. Fishing Industry

- 6 x WS (26) + FC
6 x Fi (25) + FC (Compacted form)
6 x 7 + PPC

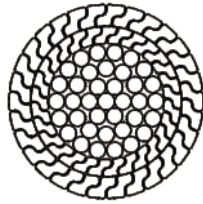
Tension Cable



Cable Diameter (mm)	Reference Configuration	Steel Wire diameter (mm)	Sectional Area (mm ²)	Minimum Breaking Force(kN)	Modules Elasticity (10 ⁵ N/mm ²)
30	1x91	2.73	531.60	693.74	1.30±0.10
32		2.91	604.85	789.33	
34		3.09	682.82	879.20	
36		3.27	765.51	985.67	
38		3.45	852.93	1098.23	
40		3.64	945.07	1216.87	
42		3.82	1041.94	1341.61	
45		4.09	1196.11	1456.86	
48		4.36	1360.91	1657.59	
52	1x127	4.00	1595.93	1943.84	
56		4.31	1850.90	2254.40	
60	1x169	4.00	2123.72	2556.96	
65		4.33	2492.42	3000.87	
70	1x217	4.12	2889.67	3479.16	
75	1x271	3.95	3316.46	3993.02	
80		4.21	3773.39	4543.16	
85	1x331	4.05	4259.09	5127.94	
90		4.29	4774.90	5748.98	
95		4.52	5320.18	6405.50	
100		4.76	5894.94	7097.51	

Note: Besides the above mentioned tension cables, we also can fabricate the cable with higher strength.

Locked Coil Strand

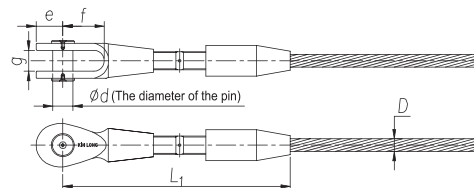


Cable Diameter (mm)	Sectional Area (mm ²)	Minimum Breaking Force(kN)	Modules Elasticity (10 ⁵ N/mm ²)
36	817.38	1025.00	1.30±0.10
40	1006.08	1261.63	
46	1386.76	1739.00	
52	1724.62	2162.68	
56	2043.06	6111.92	
60	2299.92	6801.28	
66	2869.25	7485.98	
70	3185.13	2548.68	
75	3635.36	2867.65	
82	4310.58	3584.73	
86	4781.53	3977.71	
90	5176.15	4502.95	
95	5764.6	5336.05	
100	6350.2	5915.54	

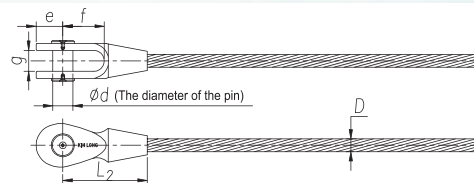
Note: Besides the above mentioned tension cables, we also can fabricate the cable with higher strength.

Anchor for Tension Cable

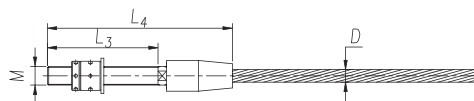
Adjustable Swaged Anchor G02



Fixed Swaged Anchor H02



Screw Anchor K02



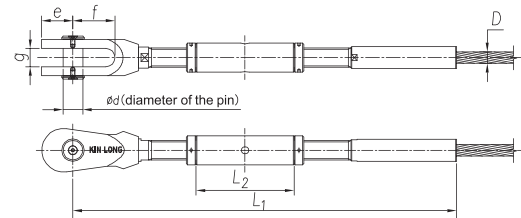
Specification

D	d	g	e	f	L ₁	L ₂	L ₃	L ₄	M
Φ30	46	50	64	99	≤630	205	250	435	M48
Φ32	50	53	68	105	≤673	220	260	456	M52
Φ34	52	57	71	112	≤701	230	269	472	M45
Φ36	56	60	76	115	≤729	236	280	493	M56
Φ38	60	63	81	118	≤758	250	290	509	M56
Φ40	62	65	85	132	≤797	262	300	530	M60x4
Φ42	66	70	88	138	≤817	280	305	541	M60x4
Φ45	70	75	95	148	≤875	300	318	568	M64
Φ48	74	80	100	156	≤944	320	330	595	M68
Φ52	80	85	108	170	≤994	340	360	647	M72x6
Φ56	88	93	117	185	≤1063	370	380	684	M80x6
Φ60	94	100	126	196	≤1122	395	395	710	M85x6
Φ65	102	108	136	214	≤1205	435	411	756	M90x6
Φ70	108	117	147	230	≤1285	460	435	806	Tr100X6
Φ75	116	125	158	246	≤1360	500	455	855	Tr105X6
Φ80	124	133	167	263	≤1413	530	460	880	Tr110X6
Φ85	132	141	177	280	≤1460	556	470	910	Tr115X6
Φ90	140	150	190	296	≤1528	595	485	950	Tr120X6
Φ95	148	159	200	312	≤1593	625	485	985	Tr130X6
Φ100	156	167	210	328	≤1652	660	490	1005	Tr135X6

Notes: The above specifications are the corresponding sizes of ordinary cables. For the specifications and sizes of locked coil strand, please consult our company

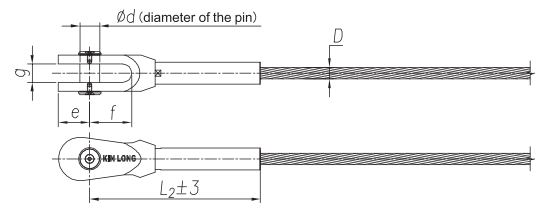
Anchor for Tension Cable

Adjustable Swaged Anchor A01



Note: The $\Phi 8$ and $\Phi 10$ cable lock nuts are outer hexagon standard nuts

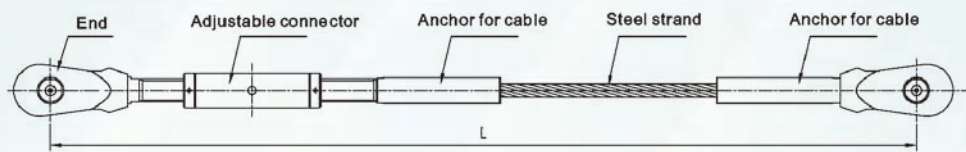
Fixed Swaged Anchor B01



Specification

D	d	g	e	f	L ₁	L ₂
$\Phi 8$	12	11	20	24	≤ 275	80
$\Phi 10$	14	13	23	30	≤ 305	80
$\Phi 12$	16	15	26	34	≤ 442	125
$\Phi 14$	20	18	32	42	≤ 466	125
$\Phi 16$	22	20	36	46	≤ 492	130
$\Phi 18$	24	23	39	52	≤ 523	130
$\Phi 20$	27	25	43	58	≤ 655	175
$\Phi 22$	30	27	48	65	≤ 684	175
$\Phi 24$	33	29	53	74	≤ 728	180
$\Phi 26$	33	32	53	74	≤ 746	180
$\Phi 28$	36	34	58	80	≤ 778	185
$\Phi 30$	39	37	62	88	≤ 935	230
$\Phi 65$	102	108	136	214	≤ 1205	435
$\Phi 70$	108	117	147	230	≤ 1285	460
$\Phi 75$	116	125	158	246	≤ 1360	500
$\Phi 80$	124	133	167	263	≤ 1413	530
$\Phi 85$	132	141	177	280	≤ 1460	556
$\Phi 90$	140	150	190	296	≤ 1528	595
$\Phi 95$	148	159	200	312	≤ 1593	625
$\Phi 100$	156	167	210	328	≤ 1652	660

Steel Tension Cable for Glass Curtain Wall System



When order the products, please pay attention to the following:

- 1.L is the length as your requirement.(L means pin to pin).
- 2.The below format is the cable length that one adjusting end normally can adjust(L),if the needed cable length is more than L of the below format ,it needs to add adjusting anchors.

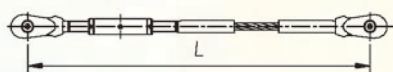
Tension cable diameter Φ D	$\Phi 8$	$\Phi 10$	$\Phi 12$	$\Phi 14$	$\Phi 16$	$\Phi 18$	$\Phi 20$	$\Phi 22$	$\Phi 24$	$\Phi 26$	$\Phi 28$	$\Phi 30$
Adjustable tension cable length L(m)	≤ 5	≤ 5	≤ 10	≤ 10	≤ 10	≤ 10	≤ 16	≤ 16	≤ 16	≤ 16	≤ 20	≤ 25

3.When purchasing this product, please provide the value of pretension force.

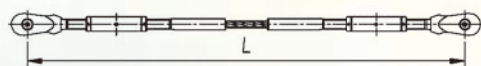
4.For $\Phi 8$ and $\Phi 10$ cable ,the anchor is hexagon.

Tension cable common combined types as below figure

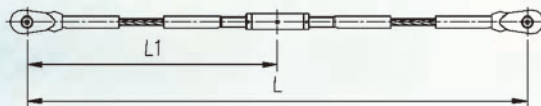
Type I



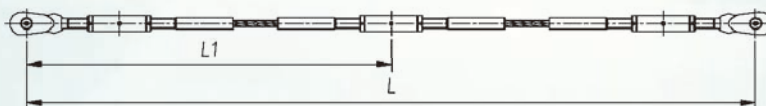
Type II



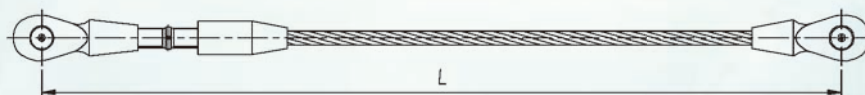
Type III



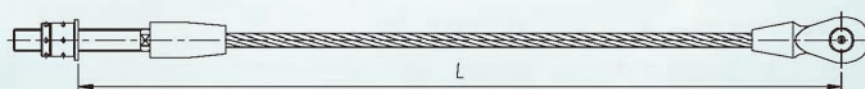
Type IV



Type V



Type VI



Cable Truss Glass Curtain Wall System



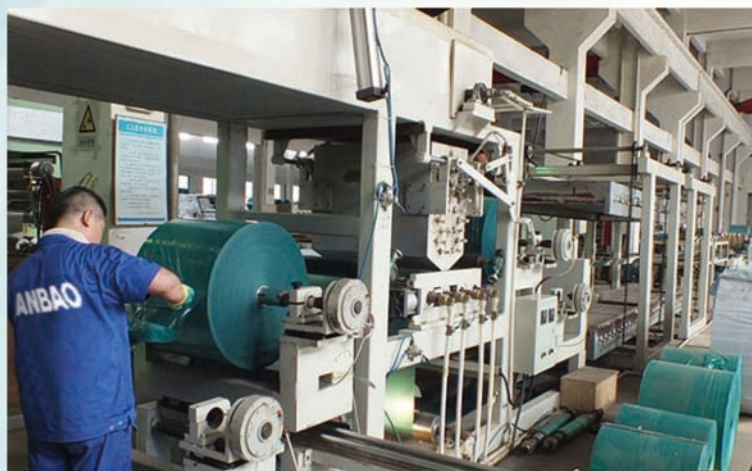
Copolymer Coated ECCS Tape

The copolymer coated steel tape(ECCS) is made from high – quality cold rolled steel tape, and the Copolymer film is made from EAA material with excellent heat seal.

The surface of tape is smooth , no wrinkle and pucker and oxidation spots, the winding is neat.

The film is blue, green or nature color. It is applicable for manufacturing the copolymer coated steel Tape used for shielding damp- proof and armor layer of communication of optical cable.

Length:	1030-5000m or as request
Width:	12-610mm
Steel Coil Thickness:	0.13\0.15mm
Copolymer Coat Thickness:	0.058mm
Total Thickness:	0.21/ 0.25 / 0.26mm
Tensile Strength:	310-450MPA
Peel Strength:	Exceed 6.13N/cm
Elongation:	Exceed 15%
Inner Diameter:	150/406/508mm
Heat Seal Strength:	Min 17.5N/cm



Guy Grip

Guy Grip is intended to use on single wood poles associated with distribution construction. They are made of the same material as to which they are applied.

Corrosion Resistant

The preformed grip is hot-dip galvanized

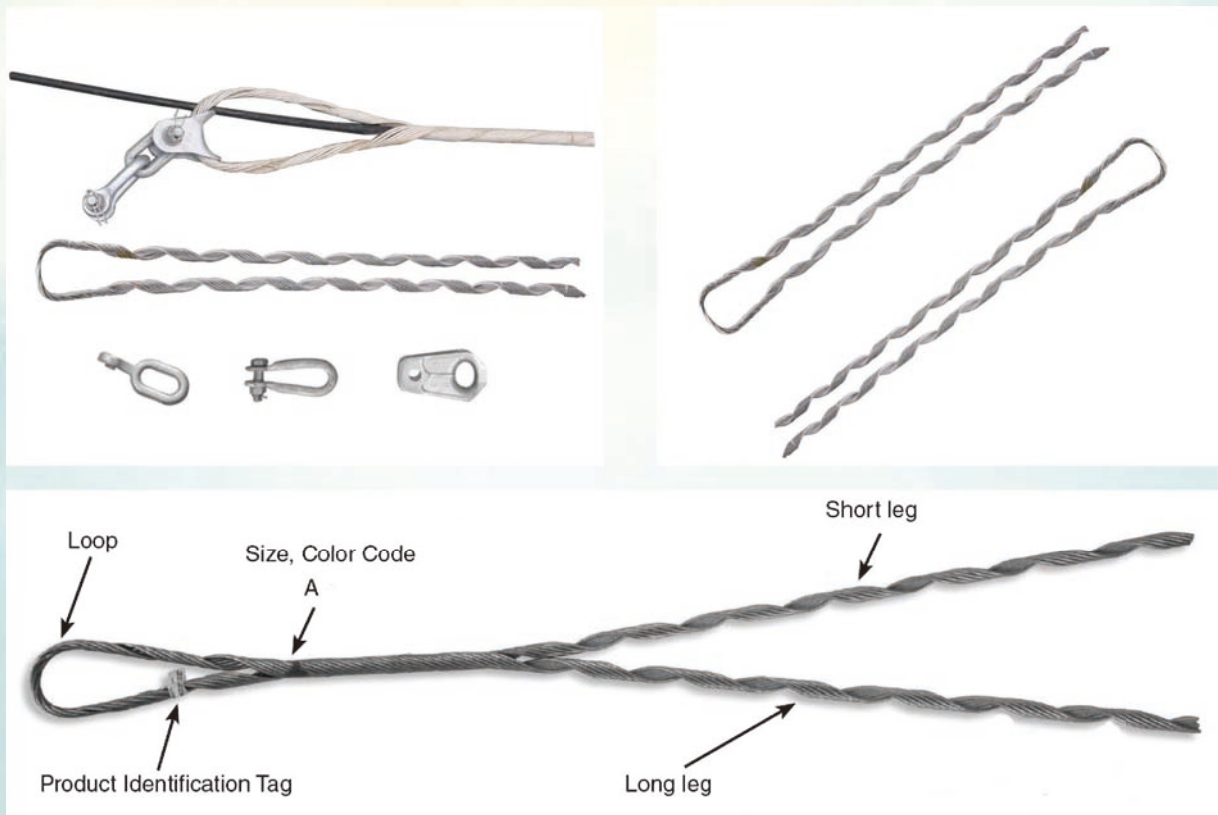
Weight of coating and uniformity of coating tests shall be made as per BS EN 10244 – 2:2001

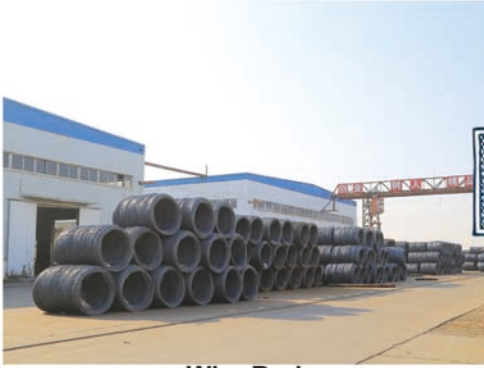
Right Hand Lay

The preformed grip is made for right-hand lay strand.

Technical Specifications:

Cat. No.	Guy Wire (mm)	Applicable conductor size (Guy strand, mm ²)	Length(mm)	Length(mm) Weight (kg)	Color Code
NL-25/G	6.60	25	635	0.2	Yellow
NL-35/G	7.65~7.95	35	711	0.3	Black
NL-50/G	8.95~9.30	50	901	0.5	Orange
NL-70/G	10.82~11.10	70	1016	0.8	Green
NL-95/G	12.50	95	1333	1.7	Orange
NL-100/G	13.00	100	1333	1.7	Blue
NL-120/G	14.00	120	1460	2.2	Yellow





Wire Rod



Pre-drawing Process



Heat treatment process

Manufacture



Galvanizing Process



Variety of Wire Take-up Process



Stranding Process



Re-winding



Labled start & end



Spool Packing



Big Coil Packing



Cargo Shipment



Black Steel Wire



Making Nails



Steel Nails



Wire Strand & Wire Rope

Inspection



ANBAO Corp.

Add: 402, Block B, Qiaoshang Building, No. 6 Liupanshan Road,
Qinhuangdao, China, 066000

Tel: 0086-335-3893600

Fax: 0086-335-3870760

Website: www.anbao.net

Email: anbao@anbao.com; anbaowire@gmail.com