



## ● Application

Galvanized Steel Wires are widely used in overhead power lines, utility poles, electrical grids, industrial settings, and telecommunications infrastructure. They provide durable and reliable pathways for transmitting electricity and supporting communication lines across different sectors and environments.

## ● Characteristic

- Uniform and firm hot-dip zinc coating.
- Bright and clean surface.
- Excellent corrosion resistance.

## ● Construction

The galvanized wires, crafted from fully-killed steel with a carbon content of 0.6%, boast an impressive ultimate tensile strength (UTS) ranging from 1.31 to 1.39 GPa. They undergo galvanization through either a hot-dip or electrolytic process, ensuring a zinc coating mass within the range of 200 to 260g/m<sup>2</sup> as specified in the AS 1222.1 standard.

## ● Specification

- AS 1442- Steel wire for the base metal shall be fully-killed steel
- AS 1222.1 Standard Galvanized Steel Wires

## ● Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction. CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

## ● Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.



## ● National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

## ● Technical Parameters

No./Dia of Stranding Wires	Nominal Overall Dia.	Nominal Cross Section Area	Nominal Weight	Breaking Load	Modulus of Elasticity	Coeff. of Linear Expansion
No./mm	mm	mm <sup>2</sup>	kg/km	kN	GPa	×10 <sup>-6</sup> /°C
3/2.00	4.3	9.43	74	11.7	189	11.5
3/2.75	5.9	17.8	140	22.2	189	11.5
7/2.00	6.0	22.0	173	26.0	187	11.5
7/2.75	8.3	41.6	328	49.0	187	11.5
7/3.25	9.8	58.1	458	68.7	187	11.5
7/3.75	11.3	77.3	609	91.3	187	11.5
19/2.00	10.0	59.7	473	70.5	184	11.5
19/2.75	13.8	113	894	133	184	11.5
19/3.25	16.3	158	1250	186	184	11.5

No./Dia.of Stranding Wires	D.C.Resistance		Continuous Current Carrying Capacity					
	at 20°C	at 75°C	at night in winter			at noon in summer		
			still air	1s/m wind	2s/m wind	still air	1s/m wind	2s/m wind
No./mm	Ω/km	Ω/km	A	A	A	A	A	A
3/2.00	20	25	21	37	43	17	34	40
3/2.75	11	14	31	54	63	25	49	58
7/2.00	8.7	11	35	61	71	28	55	66
7/2.75	4.6	5.7	54	91	106	41	82	97
7/3.25	3.3	4.1	67	113	131	51	100	119
7/3.75	2.5	3.1	81	134	156	60	119	141
19/2.00	3.2	4.0	69	115	134	52	102	121
19/2.75	1.7	2.1	105	171	199	76	150	179
19/3.25	1.2	1.5	133	213	247	94	186	221

### Note:

The electrical performance characteristics shown above do not take magnetic effects into consideration and are therefore only approximate.

Current ratings are based on the following conditions:

- Conductor temperature rise above ambient of 40°C
- Ambient air temp. of 35°C for summer noon or 10°C for winter night
- Direct solar radiation intensity of 1000 W/m<sup>2</sup> for summer noon or zero for winter night
- Diffuse solar radiation intensity of 100 W/m<sup>2</sup> for summer noon or zero for winter night
- Ground reflectance of 0.2
- Emissivity and solar absorption coefficient of the conductor surface, 0.5