

---

# GALVANIZED GUY STRAND

---



## MANUFACTURING SPECIFICATIONS

ASTM A363 – This specification covers concentric lay stranded steel wire composed of three or seven wires with a Class A coating specifically intended for use as overhead ground/shield wires for transmission lines. ASTM A475 – This specification covers the five grades of class A zinc-coated steel wire strand, Utilities, Common, Siemens-Martin, High-Strength, and Extra High-Strength, suitable for use as guy and messenger wires. ASTM B498 – This specification covers round, class A zinc-coated, steel core wire used for the reinforcement of ACSR conductors.



## CONTACT US



+1-904-423-7160



[sales@avapowerinc.com](mailto:sales@avapowerinc.com)



[avapowerinc.com](http://avapowerinc.com)

# GALVANIZED GUY STRAND



Guy wire is a concentric-lay stranded steel wire that uses tension to secures structures such as Transmission Towers & Distribution Utility Poles, Telecommunications lines & towers, Radio masts, Wind turbines, Traffic & Railway signals, to name a few. Guy wire has several names, including guy strand wire, power line guy wire, guy rope, and guy line.

## APPLICATIONS

Guy strand wires are connected, on one end, to the vertical structure they are intending to secure and the other end is attached to an anchor that is drilled into the ground. Their strength to weight ratio makes it ideal for supporting large structures to the ground. The process is called “guying” where the wire holds the vertical structure with stability, making an angle between the structure and the ground.

## ADVANTAGES

- Guy wires are known to provide advanced safety and quality to secure large structures. Their advantages are as follows -
  - Corrosion Resistance - Our galvanized steel wire provide high-quality zinc-aluminum alloy coasting that prevents oxidation.
  - Stability & Strength - With options of 3, 7 and 19 strands, Guy wires are incredibly strong and can be relied upon to withstand high speed winds and resist snapping.
  - Durability - Glven its stability, strength and corrosion resistant nature, Guy Wires are built to stand the test of times.

## SPECIFICATIONS

SN	Strand diameter		Wires / strand	Coated wire diameter	Approx. strand weight		Minimum Breaking Strength (lbs)					Minimum Weight of zinc coating (Oz./Sq. Ft.)		
	in	mm			kg/m	lbs/ 1000 ft (lbs)	Utility grade	Common grade	Siemens-Martin grade	High strength grade	Extra high strength grade	Class A	Class B	Class C
1	1/4	6.4	3	0.120	0.17	117	3150	1860	3040	4730	6740	0.85	1.70	2.55
2	1/4	6.4	3	0.120	0.17	117	4500	...	...	...	...	0.85	1.70	2.55
3	5/16	7.9	3	0.145	0.25	171	6500	2490	4090	6350	9100	0.90	1.80	2.70
4	3/8	9.5	3	0.165	0.33	220	8500	3330	5560	8360	11800	0.90	1.80	2.70
5	1/8	3.2	7		0.03	23	...	...	...	1330	1830	0.40	0.80	
6	3/16	4.8	7	0.062	0.11	73	...	1150	1900	2850	3990	0.50	1.00	1.50
7	3/16	4.8	7	0.065	0.12	80	2400	...	...	...	...	0.50	1.00	1.50
8	7/32	5.6	7	0.072	0.15	98	...	1540	2560	3850	5400	0.50	1.00	1.50
9	1/4	6.4	7	0.080	0.18	121	...	1900	3150	4750	6650	0.60	1.20	1.80
10	9/32	7.1	7	0.093	0.24	164	4600	2570	4250	6400	8950	0.70	1.40	2.10
11	5/16	7.9	7	0.104	0.31	205	...	3200	5350	8000	11200	0.80	1.60	2.40
12	5/16	7.9	7	0.109	0.33	225	6000	...	...	...	...	0.80	1.60	2.40
13	3/8	9.5	7	0.120	0.41	273	11500	4250	6950	10800	15400	0.85	1.70	2.55
14	7/16	11.1	7	0.145	0.59	399	18000	5700	12100	14500	20800	0.90	1.80	2.70
15	1/2	12.7	7	0.165	0.77	517	25000	7400	9350	18800	26900	0.90	1.80	2.70
16	9/16	14.3	7	0.188	1.00	671	...	9600	15700	24500	3500	1.00	2.00	3.00
17	5/8	15.9	7	0.207	1.21	813	....	11600	19100	29600	42400	1.00	2.00	3.00
18	1/2	12.7	19	0.100	0.75	504	...	7620	12700	19100	26700	0.70	1.40	2.10
19	9/16	14.3	19	0.113	0.95	637	...	9640	16100	24100	33700	0.80	1.60	2.40
20	5/8	15.9	19	0.125	1.18	796	...	11000	18100	28100	40200	0.85	1.70	2.55
21	3/4	19.1	19	0.150	1.72	1155	...	16000	26200	40800	58300	0.90	1.80	2.70
22	7/8	22.2	19	0.177	2.35	1581	...	21900	35900	55800	79700	0.90	1.8	2.70
23	1	25.4	19	0.200	3.08	2073		28700	47000	73200	104500	1.00	2.00	3.00