

Aluminum Clad Steel Wire



APPLICATION:

Aluminum Clad Steel Guy or "Messenger" Wire and Static Wire are used in utility classifications for overhead use such as in power lines, telephone lines, railway signals, communication lines, towers, and masts. It is a high strength wire with a 25% thick cross-section ratio of aluminum cladding creating a high electrical conductivity, highly corrosive resistant, and a thermal stability for high temperature operation and all with a lighter weight.

STANDARDS:

- ASTM B-416 for Guy Wire
- ASTM B-415 for Static Wire

Part Number	Strand Diameter	Diameter		Breaking Load		Weight		Approx Resistance	
		inches	mm	lbs	kN	lbs/kft	kg/km	ohms/kft	ohms/km
GUY / “MESSENGER” WIRE									
6MP	7#12	0.242	6.15	6,300	28	104.10	155	1.13	3.71
8MP	7#11	0.272	6.91	8,000	36	131.40	195	0.89	2.92
10MP	7#10	0.306	7.77	10,000	44	165.10	246	0.71	2.33
12.5MP	7#9	0.343	8.71	12,500	56	206.20	307	0.56	1.84
14MP	- -	0.363	9.22	14,100	63	232.20	345	0.50	1.64
16MP	7#8	0.386	9.80	16,000	71	260.00	387	0.45	1.48
20MP	- -	0.444	11.28	20,000	89	347.50	517	0.34	1.12

All values are nominal and subject to correction.

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		inches	mm	lbs	kN	lbs/kft	kg/km	ohms/kft	ohms/km
STATIC WIRE									
3#5ALCLAD	3#5	0.392	9.96	12,230	54	224.50	334	--	--
3#6ALCLAD	3#6	0.349	8.86	10,280	46	178.10	265	--	--
3#7ALCLAD	3#7	0.311	7.90	8,621	38	141.20	210	--	--
3#8ALCLAD	3#8	0.277	7.04	7,206	32	112.00	167	--	--
3#9ALCLAD	3#9	0.247	6.27	5,715	25	88.81	132	--	--
3#10ALCLAD	3#10	0.220	5.59	4,532	20	70.43	105	--	--
7#5ALCLAD	7#5	0.546	13.87	27,030	120	524.90	781	--	--
7#6ALCLAD	7#6	0.486	12.34	22,730	101	416.30	619	--	--
7#7ALCLAD	7#7	0.433	11.00	19,060	85	330.00	491	--	--
7#8ALCLAD	7#8	0.385	9.78	15,930	71	261.80	390	--	--
7#9ALCLAD	7#9	0.343	8.71	12,630	56	207.60	309	--	--
7#10ALCLAD	7#10	0.306	7.77	10,020	45	164.70	245	--	--
7#11ALCLAD	7#11	0.272	6.91	7,954	35	130.60	194	--	--
7#12ALCLAD	7#12	0.242	6.15	6,301	28	103.60	154	--	--
19#5ALCLAD	19#5	0.910	23.11	73,350	326	1430.00	2128	--	--
19#6ALCLAD	19#6	0.810	20.57	61,700	274	1134.00	1687	--	--
19#7ALCLAD	19#7	0.721	18.31	51,730	230	899.50	1338	--	--
19#8ALCLAD	19#8	0.642	16.31	43,240	192	713.50	1062	--	--
19#9ALCLAD	19#9	0.572	14.53	34,290	153	565.80	842	--	--
19#10ALCLAD	19#10	0.509	12.93	27,190	121	448.70	668	--	--
37#5ALCLAD	37#5	1.270	32.26	142,800	635	2802.00	4169	--	--
37#6ALCLAD	37#6	1.130	28.70	120,200	535	2222.00	3306	--	--
37#7ALCLAD	37#7	1.010	25.65	100,700	448	1762.00	2622	--	--
37#8ALCLAD	37#8	0.899	22.83	84,200	375	1398.00	2080	--	--
37#9ALCLAD	37#9	0.801	20.35	66,770	297	1108.00	1648	--	--
37#10ALCLAD	37#10	0.713	18.11	52,950	236	879.01	1308	--	--

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