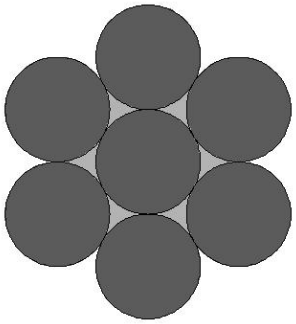
Galvanized Steel Wire(GSW)/Stay Wire/Guy Wire

APPLICATION:

GSW – Galvanized steel wire is used as overhead ground wire or static wire on transmission lines, and as messenger cable for aerial cable.



STANDARDS:

- ASTM A-475
- BS 183
- AS 1222.1
- IEC 61089

Qualification Certificate:

For more information, please visit our website:

https://www.huilicablegroup.com/gsw-galvanized-steel-wire-strand.html

CONSTRUCTION:

- Galvanized steel wire.
- GSW is available single layer and multi-layer constructions.

TECHNICAL PARAMETERS:

GALVANIZED STEEL WIRE (GSW)/STAY WIRE/GUY WIRE AS1222.1

Standing and Wire Diameter	Approx.Overall Diameter	Cross-Section Area	Approx.Mass Per Km	Calculated Breaking Load (CBL)	Equivalent Aluminium Area	Typical D.C. Resistance At 20℃
mm	mm	mm²	kg	kN	mm²	Ω/Km
3/2.00	4.31	9.426	74	11.7	1.4	20
3/2.75	5.93	17.82	140	22.2	2.6	11
7/2.00	6.00	21.99	173	26.0	3.2	8.7
7/2.75	8.25	41.58	328	49.0	6.1	4.6
7/3.25	9.75	58.07	458	68.7	8.6	3.3
7/3.75	11.3	77.28	609	91.3	11	2.5
19/2.00	10.0	59.70	473	70.5	8.8	3.2
19/2.75	13.8	112.9	894	133	17	1.7
19/3.25	16.3	157.6	1250	186	23	1.2

GALVANIZED STEEL WIRE (GSW)/STAY WIRE/GUY WIRE IEC61089

Code Number	Area	Number of Wires	Diameter		Mass	Rated Strength				
			Wire	Cond.		JG1A	JG2A	JG3A	JG4A	JG5A
	mm²		mm	mm	Kg/Km	KN	KN	KN	KN	KN
10	10.8	7	1.40	4.20	84.8	14.44	15.62	17.46	20.15	21.12
15	17.8	7	1.80	5.40	140.1	23.87	25.83	28.86	33.31	34.91
20	22.0	7	2.00	6.00	173.0	29.47	31.89	35.63	41.12	43.10
25	26.6	7	2.20	6.60	209.3	35.66	38.58	43.11	49.76	52.15
35	37.2	7	2.60	7.80	292.4	48.69	52.40	59.09	67.64	70.99
40	38.2	19	1.60	8.00	301.9	51.19	55.39	61.89	71.44	74.88
50	49.5	7	3.00	9.00	389.2	64.82	69.77	78.67	90.05	94.51
50	48.3	19	1.80	9.00	382.1	64.79	70.11	78.33	90.41	94.76
55	56.3	7	3.20	9.60	442.9	72.62	79.38	87.26	99.65	105.3
60	59.7	19	2.00	10.0	471.7	79.98	86.55	96.70	111.6	117.0
65	67.3	7	3.50	10.5	529.8	86.88	94.96	104.4	119.2	125.9
70	72.2	19	2.20	11.0	570.8	96.78	104.73	117.00	135.1	141.6
75	74.4	37	1.60	11.2	589.4	99.7	107.9	120.5	139.1	145.8
80	79.4	7	3.80	11.4	624.5	102.4	109.6	120.7	136.5	144.5
80	78.9	19	2.30	11.5	623.9	103.4	111.3	125.5	143.7	150.8
90	88.0	7	4.00	12.0	692.0	113.5	121.4	133.7	151.3	160.1
95	94.8	19	2.52	12.6	748.9	124.14	133.62	150.68	172.5	181.0
100	101	19	2.60	13.0	797.2	132.1	142.2	160.4	183.6	192.7
115	116	37	2.00	14.0	921.0	155.8	168.5	188.3	217.4	227.8
125	125	19	2.90	14.5	991.8	164.4	177.0	199.5	228.4	239.7
150	153	19	3.20	16.0	1207.6	197.1	215.5	236.9	270.5	285.7
155	154	37	2.30	16.1	1218.0	201.4	216.8	244.4	279.8	293.6
185	183	19	3.50	17.5	1444.7	235.8	257.8	283.3	323.6	341.8
200	196	37	2.60	18.2	1556.5	257.3	277.0	312.3	357.5	375.2
240	239	19	4.00	20.0	1886.9	308.0	329.5	362.9	410.7	434.5
245	244	37	2.90	20.3	1936.4	320.2	344.6	388.6	444.8	466.8
300	298	37	3.20	22.4	2357.7	383.9	419.6	461.2	526.7	556.5
355	356	37	3.50	24.5	2820.5	459.2	501.9	551.8	630.1	665.7
465	465	37	4.00	28.0	3683.9	599.8	641.6	706.7	799.7	846.2

GALVANIZED STEEL WIRE (GSW)/STAY WIRE/GUY WIRE BS183

Sectional Area	Stranding		Outer Diameter	Weight	Rated Strength						
	No.of Wires	Individual wire diameter			Grade 350	Grade 480	Grade 700	Grade 850	Grade 1000	Grade 1150	Grade 1300
mm²	No.	mm	mm	Kg/km	KN	KN	KN	KN	KN	KN	KN
7.63	3	1.80	3.90	60.00	2.65	3.66	-	-	-	-	-
16.55	3	2.65	5.70	130.00	5.80	7.95	-	-	-	-	-
24.89	3	3.25	7.00	195.00	8.70	11.95	-	-	-	-	-
37.70	3	4.00	8.60	295.00	13.20	18.10	-	-	-	-	-
10.18	4	1.80	4.40	80.00	3.55	4.90	-	-	-	-	-
22.06	4	2.65	6.40	172.00	7.70	10.60	-	-	-	-	-
33.18	4	3.25	7.90	260.00	11.60	15.90	-	-	-	-	-
50.27	4	4.00	9.70	390.00	17.60	24.10	35.20	-	-	-	-
8.84	5	1.50	4.10	69.00	3.10	4.24	6.18	-	-	-	-
12.72	5	1.80	4.90	95.00	4.45	6.10	8.90	-	-	-	-
27.58	5	2.65	7.20	220.00	9.65	13.25	19.30	-	-	-	-
41.48	5	3.25	8.80	320.00	14.50	19.90	29.00	-	-	-	-
62.83	5	4.00	10.80	490.00	22.00	30.15	43.95	-	-	-	-
5.50	7	1.00	3.00	43.00	1.92	2.64	3.85	-	5.50	6.32	7.15
8.59	7	1.25	3.80	67.00	3.01	4.10	6.00	-	8.55	9.88	11.15
10.78	7	1.40	4.20	84.00	3.75	5.17	7.54	9.16	10.75	12.35	14.00
11.24	7	1.43	4.30	86.00	3.85	5.28	7.70	9.35	11.00	12.65	14.30
14.07	7	1.60	4.80	110.00	4.90	6.75	9.85	11.95	14.10	16.20	18.30
17.81	7	1.80	5.40	140.00	6.23	8.55	12.45	-	17.80	20.50	23.20
21.99	7	2.00	6.00	170.00	7.70	10.55	15.40	-	22.00	25.30	38.60
30.62	7	2.36	7.10	240.00	10.70	14.70	21.40	-	30.60	35.20	39.80
38.61	7	2.65	8.00	300.00	13.50	18.50	27.00	-	38.60	44.40	50.20
49.48	7	3.00	9.00	392.00	17.30	23.75	34.65	-	49.50	56.90	64.30
54.55	7	3.15	9.50	430.00	19.10	26.20	38.20	-	54.55	62.75	70.90
58.07	7	3.25	9.80	460.00	20.30	27.85	40.65	-	58.05	66.80	75.50
73.24	7	3.65	11.00	570.00	25.60	35.15	51.25	-	73.25	84.20	95.20
87.96	7	4.00	12.00	690.00	30.90	42.20	61.60	-	88.00	101.00	114.00
99.30	7	4.25	12.80	780.00	34.75	47.65	69.50	-	99.30	114.00	129.00
124.04	7	4.75	14.00	970.00	43.40	59.45	86.80	-	124.00	142.70	161.30
134.30	19	3.00	15.00	1050.00	47.00	64.50	94.00	114.1	134.30	154.50	174.60
188.06	19	3.55	17.80	1470.00	65.80	90.27	131.60	159.9	188.00	216.30	244.50
238.76	19	4.00	20.00	1870.00	83.55	114.60	167.10	203.0	238.70	274.60	310.40
336.69	19	4.75	23.80	2630.00	117.85	161.60	235.70	286.0	336.70	387.20	437.70

GALVANIZED STEEL WIRE (GSW)/STAY WIRE/GUY WIRE ASTM A475

Sectional Area	Stranding		Outer Diameter	Weight	Rated Strength				
	No.of Wires	Individual wire diameter			Common Grade	Siemens Martin Grade	High Strength Grade	Extra High Strength Grade	UTILITY GRADE
mm²	No.	mm	mm	Kg/km	KN	KN	KN	KN	KN
5.95	7	1.04	3.18	48.00	2.402	4.048	5.916	8.140	-
9.58	7	1.32	3.97	76.00	3.870	6.539	6.539	13.078	-
13.55	7	1.57	4.76	109.00	5.115	8.452	12.677	17.748	-
14.97	7	1.65	4.76	119.00	-	-	-	-	10.676
16.42	3	2.64	5.56	131.00	6.228	10.409	15.569	21.796	-
18.41	7	1.83	5.56	146.00	6.850	11.387	17.126	24.020	
21.92	3	3.05	6.35	174.00	8.274	13.523	21.040	29.981	14.01
21.92	3	3.05	6.35	174.00	-	-	-	-	20.02
22.66	7	2.03	6.35	180.00	8.452	14.012	21.129	29.581	-
25.66	3	3.30	7.14	204.00	9.252	15.035	23.398	33.362	-
30.62	7	2.36	7.14	244.00	11.432	18.905	28.469	39.812	20.46
31.91	3	3.68	7.94	255.00	11.076	18.193	28.246	40.479	-
38.32	7	2.64	7.94	305.00	14.234	23.798	35.586	49.820	-
42.18	7	2.77	7.94	335.00	-	-	-	-	26.69
41.37	3	4.19	9.52	328.00	14.813	24.732	37.187	52.489	37.81
51.14	7	3.05	9.52	402.00	18.905	30.915	48.040	68.503	51.16
74.45	7	3.68	11.11	595.00	25.355	41.591	64.499	92.523	80.07
96.52	7	4.19	12.70	770.00	32.917	53.823	83.627	119.657	111.21
96.27	19	2.54	12.70	751.00	33.895	56.492	84.961	118.768	-
125.62	7	4.78	14.29	1000.00	42.703	69.837	108.981	155.688	-
122.92	19	2.87	14.29	949.00	42.881	71.616	107.202	149.905	-
152.11	7	5.26	15.88	1211.00	51.599	84.961	131.667	188.605	-
150.90	19	3.18	15.88	1186.00	48.930	80.513	124.995	178.819	-
216.62	19	3.81	19.05	1721.00	71.172	116.543	181.487	259.331	-
302.18	19	4.50	22.22	2356.00	97.416	159.691	248.211	354.523	-
385.10	19	5.08	25.40	3089.00	127.66	209.07	325.61	464.8	-
382.92	37	3.63	25.40	3065.00	125.89	205.51	319.83	456.8	-
486.12	37	4.09	28.58	4010.00	160.14	262.00	407.46	581.8	-
601.61	37	4.55	31.75	4840.00	198.39	324.72	505.32	721.5	-