

GSW Conductor Wire

GSW – Galvanized Steel Wire, Galvanized Steel Strand BS 183 : 1972	2
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Application

The galvanized steel wire strand is used for overhead ground lines or electrical power transmission lines. Stay or guy wire strands are produced for use with poles, towers, or any other form of guying.

Galvanized steel wire strand in multi-core electrical cables. Its low cost and ease of production makes galvanized steel wire ideal for mass produced corrosion resistant wire products. It is an indispensable industrial, agricultural, and DIY fastening and reinforcement standard.

Standard

Basic design to BS 183 : 1972 standard

Construction

Concentrically stranded Galvanized steel wire strand available in class "A", "B" and "C" galvanizing, "A" being the least heavy and "C" being the most heavy. Manufactured without welds per ASTM A-363 or with welds per ASTM A-475. Strands are formed to remain substantially in place when severed.

Construction Parameters

Number of wires/Dia.	Approx.Strand Dia.	Minimum Breaking Load of Strand							Approx. Weight
		Grade 350	Grade 480	Grade 700	Grade 850	Grade 1000	Grade 1150	Grade 1300	
	mm	kN	kN	kN	kN	kN	kN	kN	kg/km
3/1.80	3.9	2.65	3.66	-	-	-	-	-	60
3/2.65	5.7	5.80	7.95	-	-	-	-	-	130
3/3.25	7	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	0.60	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	3.1	-	4.45	5.12	5.80	35
7/1.00	3	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
7/1.60	4.8	4.90	6.75	9.85	11.95	14.10	16.20	18.30	110
7/1.80	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	28.60	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	101.00	114.00	690
7/4.25	12.8	34.75	47.65	69.50	-	99.30	114.00	129.00	780
7/4.75	14.0	43.40	59.45	86.80	-	124.00	142.70	161.30	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	18.35	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	107.30	121.30	730

19/3.00	15.0	47.00	64.50	94.00	114.10	134.30	154.50	174.60	1050
19/3.55	17.8	65.80	90.27	131.60	159.90	188.00	216.30	244.50	1470
19/4.00	20.0	83.55	114.60	167.10	203.00	238.70	274.60	310.40	1870
19/4.75	23.8	117.85	161.40	235.70	286.00	336.70	387.20	437.70	2630

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Number of Wires/Dia.	Approx.Strand Dia.		Siemens Martin Grade	High Strength Grade	Extra-high Strength Grade	Approx.Weight
	Inch	mm	KN	KN	KN	kg/km
3/2.64	7/32	5.56	10.409	15.569	21.796	131
3/3.05	1/4	6.35	13.523	21.04	29.981	174
3/3.05	1/4	6.35	-	-	-	174
3/3.30	9/32	7.14	15.035	23.398	33.362	204
3/3.68	5/16	7.94	18.193	28.246	40.479	256
3/4.19	3/8	9.52	24.732	37.187	52.489	328
7/1.04	1/8	3.18	4.048	5.916	8.18	49
7/1.32	5/32	3.97	6.539	9.519	13.078	76
7/1.57	3/16	4.76	8.452	12.677	17.748	108

7/1.65	3/16	4.76	-	-	-	118
7/1.83	3/16	5.56	11.387	17.126	24.02	145
7/2.03	7/32	6.35	14.012	21.129	29.581	181
7/2.36	1/4	7.14	18.905	28.469	39.812	243
7/2.64	9/32	7.94	23.798	35.586	49.82	305
7/2.77	5/16	7.94	-	-	-	335
7/3.05	3/8	9.52	30.915	48.04	68.503	407
7/3.68	7/16	11.11	41.591	64.499	92.523	594
7/4.19	1/2	12.7	53.823	83.627	119.657	768
7/4.78	9/16	14.29	69.837	108.981	155.688	991
7/5.26	5/8	15.88	84.961	131.667	188.605	1211
19/2.54	1/2	12.7	56.492	84.961	118.768	751
19/2.87	9/16	12.49	71.616	107.202	149.905	948
19/3.18	5/8	15.88	80.513	124.995	178.819	1184
19/3.81	3/4	19.05	116.543	181.487	259.331	1719
19/4.50	7/8	22.22	159.691	248.211	354.523	2352
19/5.08	1	25.4	209.066	325.61	464.839	2384
37/3.63	1	25.4	205.508	319.827	456.832	3061
37/4.09	11/8	28.58	262	407.457	581.827	4006
37/4.55	11/4	31.75	324.72	505.318	721.502	4833