

GSW - Galvanized Steel Wire Strand

Bare overhead conductor for standard-based line selection

GSW - Galvanized Steel Wire Strand is prepared for preliminary product selection and quotation review. This product is used for overhead line routes where conductor material, stranding, rated strength and DC resistance must be reviewed against the selected project standard. Final selection should consider span length, mechanical loading, route environment and local utility requirements.



VOLTAGE

Not voltage-rated; selected by conductor standard and line design

CONDUCTOR

Steel or reinforced conductor route, according to standard

TYPICAL USE

Overhead transmission and distribution lines

STANDARDS

ASTM A475; ASTM A363

DATA SCOPE

6 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm standard route, conductor size, stranding, strength and line design.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- Overhead transmission and distribution lines
- utility feeder routes
- substation or busbar connections
- replacement projects requiring standard-based bare conductor selection.

Selection logic

- Review the required standard route first.
- Compare conductor area, stranding, rated strength, DC resistance and overall diameter.
- For higher tension or long spans, compare with reinforced or alloy conductor alternatives.

Construction Overview

Item	Website-ready content
Product route	Concentric-lay stranded bare conductor. Material and reinforcement depend on the selected product type and standard route.
Voltage	Reviewed according to selected product standard
Conductor	Steel or reinforced conductor route, according to standard
Standards	ASTM A475; ASTM A363
Confirmation	Final structure, dimensions and packing should follow selected standard, quotation review and order specification.

Readable Data Index

Data route	Size / rating range	Construction	Diameter / OD	Resistance / weight / rating
GSW - Galvanized Steel Wire Strand - Technical Table 1	5.9 - 152.1	See table	3.12 - 15.78	47 - 1206
GSW - Galvanized Steel Wire Strand - Technical Table 2	16.4 - 41.4	See table	5.69 - 9.03	131 - 329
GSW - Galvanized Steel Wire Strand - Technical Table 3	96.3 - 385.1	See table	12.70 - 25.40	765 - 3058
GSW - Galvanized Steel Wire Strand - Technical Table 4	382.9 - 601.6	See table	25.41 - 31.85	3042 - 4780

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

GSW - Galvanized Steel Wire Strand - Technical Table 1

Reference table for preliminary selection and quotation review.

Nominal Size (in)	No./Wire Dia. (mm)	Area (mm²)	Overall Dia. (mm)	Weight (kg/km)	Common (kN)	SM (kN)	HS (kN)	EHS (kN)
1/8	7/1.04	5.9	3.12	47	2.402	4.048	5.916	8.140
5/32	7/1.32	9.6	3.96	76	3.870	6.539	9.519	13.078
3/16	7/1.57	13.6	4.71	107	5.115	8.452	12.677	17.748
7/32	7/1.83	18.4	5.49	146	6.850	11.387	17.126	24.020
1/4	7/2.03	22.7	6.09	180	8.452	14.012	21.129	29.581
9/32	7/2.36	30.6	7.08	243	11.432	18.905	28.469	39.812
5/16	7/2.64	38.3	7.92	304	14.234	23.798	35.586	49.820
3/8	7/3.05	51.1	9.15	405	18.905	30.915	48.040	68.503
7/16	7/3.68	74.5	11.04	590	25.355	41.591	64.499	92.523
1/2	7/4.19	96.5	12.57	765	32.917	53.823	83.627	119.657
9/16	7/4.78	125.6	14.34	996	42.703	69.837	108.981	155.688
5/8	7/5.26	152.1	15.78	1206	51.599	84.961	131.667	188.605

GSW - Galvanized Steel Wire Strand - Technical Table 2

Reference table for preliminary selection and quotation review.

Nominal Size (in)	No./Wire Dia. (mm)	Area (mm²)	Overall Dia. (mm)	Weight (kg/km)	Common (kN)	SM (kN)	HS (kN)	EHS (kN)
7/32	3/2.64	16.4	5.69	131	6.228	10.409	15.569	21.796
1/4	3/3.05	21.9	6.57	174	8.274	13.523	21.040	29.981
9/32	3/3.30	25.7	7.11	204	9.252	15.035	23.398	33.362
5/16	3/3.68	31.9	7.93	254	11.076	18.193	28.246	40.479
3/8	3/4.19	41.4	9.03	329	14.813	24.732	37.187	52.489

GSW - Galvanized Steel Wire Strand - Technical Table 3

Reference table for preliminary selection and quotation review.

Nominal Size (in)	No./Wire Dia. (mm)	Area (mm²)	Overall Dia. (mm)	Weight (kg/km)	Common (kN)	SM (kN)	HS (kN)	EHS (kN)
1/2	19/2.54	96.3	12.70	765	33.895	56.492	84.961	118.768
9/16	19/2.87	122.9	14.35	976	42.881	71.616	107.202	149.905
5/8	19/3.18	150.9	15.90	1198	48.930	80.513	124.995	178.819
3/4	19/3.81	216.6	19.05	1720	71.172	116.543	181.487	259.331
7/8	19/4.50	302.2	22.50	2400	97.416	159.691	248.211	354.523
1	19/5.08	385.1	25.40	3058	127.664	209.066	325.610	464.839

GSW - Galvanized Steel Wire Strand - Technical Table 4

Reference table for preliminary selection and quotation review.

Nominal Size (in)	No./Wire Dia. (mm)	Area (mm²)	Overall Dia. (mm)	Weight (kg/km)	Common (kN)	SM (kN)	HS (kN)	EHS (kN)
1	37/3.63	382.9	25.41	3042	125.885	205.508	319.827	456.832
1 1/8	37/4.09	486.1	28.63	3862	160.136	262.000	407.457	581.827
1 1/4	37/4.55	601.6	31.85	4780	198.391	324.720	505.318	721.502

GSW - Galvanized Steel Wire Strand - Technical Table 5

Reference table for preliminary selection and quotation review.

Route	Typical Grades	Construction Scope	Typical Use	Coating Route
A475	Utilities / Common / Siemens-Martin / HS / EHS	3, 7, 19, 37-wire routes	Guys, messengers, span wires, stay wires	Class 1 / A / B / C
A363	Utilities / HS / EHS	3-wire and 7-wire routes	Overhead ground wire / static wire	Class A / B / C

GSW - Galvanized Steel Wire Strand - Technical Table 6

Reference table for preliminary selection and quotation review.

Nominal Size (in)	No. of Wires	Weight (kg/km)	Utilities (kN)	SM (kN)	HS (kN)
3/8	7	273	51.15	80.07	111.21
7/16	7	399	80.07	93.50	144.56
1/2	7	517	111.21	121.00	188.00