

GSW Conductor (Galvanized Steel Wire Strand, ASTM A475)

Bare overhead conductor for standard-based line selection

GSW Conductor (Galvanized Steel Wire Strand, ASTM A475) 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

DATA SCOPE

2 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.

ethan@farwalkcable.com | +86 155 5800 6344

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
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
ASTM A475 GSW - High Strength (HS) 7-Wire Strand	1/4" (6.35 mm) - 1/2" (12.70 mm)	7	See table	121 / 180 - 517 / 769
ASTM A475 GSW - Extra High Strength (EHS) 7-Wire Strand	1/4" (6.35 mm) - 1/2" (12.70 mm)	7	See table	121 / 180 - 517 / 769

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.

ASTM A475 GSW - High Strength (HS) 7-Wire Strand

Reference table for preliminary selection and quotation review.

Nominal Dia. (inch/mm)	Stranding (No.)	Coating Class	Weight (lb/1000ft / kg/km)	Min. Breaking Strength (lb)	Min. Breaking Strength (kN)
ASTM A475 GSW - High Strength (HS) 7-Wire Strand					
1/4" (6.35 mm)	7	Class A	121 / 180	4,750	21.1
5/16" (7.94 mm)	7	Class A	205 / 305	8,000	35.6
3/8" (9.53 mm)	7	Class A	273 / 406	10,800	48.0
ca7/t1i6o" (1n1.s11 mm)	7	Class A	399 / 594	14,500	64.5
1/2" (12.70 mm)	7	Class A	517 / 769	18,800	83.6

ASTM A475 GSW - Extra High Strength (EHS) 7-Wire Strand

Reference table for preliminary selection and quotation review.

Nominal Dia. (inch/mm)	Stranding (No.)	Coating Class	Weight (lb/1000ft / kg/km)	Min. Breaking Strength (lb)	Min. Breaking Strength (kN)
ASTM A475 GSW - Extra High Strength (EHS) 7-Wire Strand					
1/4" (6.35 mm)	7	Class A	121 / 180	6,650	29.6
5/16" (7.94 mm)	7	Class A	205 / 305	11,200	49.8
3/8" (9.53 mm)	7	Class A	273 / 406	15,400	68.5
7/16" (11.11 mm)	7	Class A	399 / 594	20,800	92.5
1/2" (12.70 mm)	7	Class A	517 / 769	26,900	119.7