

GSW Conductor (Galvanized Steel Wire Strand, BS 183)

Bare overhead conductor for standard-based line selection

GSW Conductor (Galvanized Steel Wire Strand, BS 183) 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

BS 183; BS EN 10244-2; BS EN 50189; IEC 60888

DATA SCOPE

3 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	BS 183; BS EN 10244-2; BS EN 50189; IEC 60888
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
BS 183 GSW - Grade 700 (Standard Stay & Earth Wires)	14.1 - 104.7	7 / 1.60 - 19 / 2.65	4.80 - 13.25	110 - 831
BS 183 GSW - Grade 1150 (High-Tensile Stay Wires)	14.1 - 104.7	7 / 1.60 - 19 / 2.65	4.80 - 13.25	110 - 831
BS 183 GSW - Grade 1300 (Extra High-Tensile Ground Wires)	14.1 - 104.7	7 / 1.60 - 19 / 2.65	4.80 - 13.25	110 - 831

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.

BS 183 GSW - Grade 700 (Standard Stay & Earth Wires)

Reference table for preliminary selection and quotation review.

Stranding (No./mm)	Approx. Area (mm ²)	Overall Dia. (mm)	Approx. Weight (kg/km)	Min. Breaking Load (kN)
BS 183 GSW - Grade 700 (Standard Stay & Earth Wires)				
7 / 1.60	14.1	4.80	110	9.85
7 / 2.00	22.0	6.00	174	15.40
7 / 2.65	38.6	7.95	306	27.00
7 / 3.15	54.5	9.45	432	38.20
7 / 4.00	88.0	12.00	697	61.60
19 / 2.00	59.7	10.00	473	41.80
19 / 2.65	104.7	13.25	831	73.30

BS 183 GSW - Grade 1150 (High-Tensile Stay Wires)

Reference table for preliminary selection and quotation review.

Stranding (No./mm)	Approx. Area (mm ²)	Overall Dia. (mm)	Approx. Weight (kg/km)	Min. Breaking Load (kN)
BS 183 GSW - Grade 1150 (High-Tensile Stay Wires)				
7 / 1.60	14.1	4.80	110	16.18
7 / 2.00	22.0	6.00	174	25.30
7 / 2.65	38.6	7.95	306	44.40
7 / 3.15	54.5	9.45	432	62.70
7 / 4.00	88.0	12.00	697	101.20
19 / 2.00	59.7	10.00	473	68.60
19 / 2.65	104.7	13.25	831	120.40

BS 183 GSW - Grade 1300 (Extra High-Tensile Ground Wires)

Reference table for preliminary selection and quotation review.

Stranding (No./mm)	Approx. Area (mm ²)	Overall Dia. (mm)	Approx. Weight (kg/km)	Min. Breaking Load (kN)
BS 183 GSW - Grade 1300 (Extra High-Tensile Ground Wires)				
7 / 1.60	14.1	4.80	110	18.30
7 / 2.00	22.0	6.00	174	28.60
7 / 2.65	38.6	7.95	306	50.20
7 / 3.15	54.5	9.45	432	70.90
7 / 4.00	88.0	12.00	697	114.40
19 / 2.00	59.7	10.00	473	77.60
19 / 2.65	104.7	13.25	831	136.10