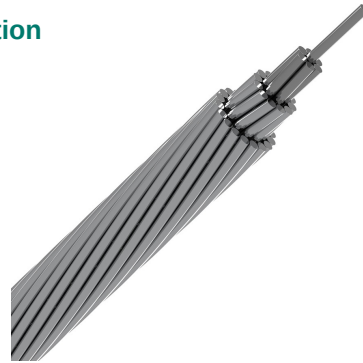


AACSR Conductor (Aluminium Alloy Conductor Steel Reinforced, IEC 61089)

Bare overhead conductor for standard-based line selection

AACSR Conductor (Aluminium Alloy Conductor Steel Reinforced, IEC 61089) 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

IEC 61089

DATA SCOPE

1 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	IEC 61089
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
IEC 61089 AACSR - Extreme Span / Low Sag Transmission	50 / 8 - 500 / 65	6/3.20 + 1/3.20 - 54/3.43 + 7/3.43	9.60 - 30.90	190 - 1890

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.

IEC 61089 AACSR - Extreme Span / Low Sag Transmission

Reference table for preliminary selection and quotation review.

Nominal Area (Alloy / Steel mm²)	Stranding (Alloy/Steel No./mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Calculated UTS (kN)	DC Res. @20°C (Ω/km)
IEC 61089 AACSR - Extreme Span / Low Sag Transmission					
50 / 8	6/3.20 + 1/3.20	9.60	190	19.5	0.686
70 / 12	26/1.85 + 7/1.44	11.70	285	30.4	0.473
95 / 15	26/2.15 + 7/1.67	13.60	384	40.5	0.350
120 / 20	26/2.44 + 7/1.90	15.50	495	52.3	0.272
150 / 25	26/2.70 + 7/2.10	17.10	605	64.2	0.222
240 / 40	26/3.45 + 7/2.68	21.90	986	104.5	0.136
300 / 50	26/3.86 + 7/3.00	24.50	1238	128.8	0.108
400 / 65	54/3.07 + 7/3.07	27.60	1520	158.0	0.081
500 / 65	54/3.43 + 7/3.43	30.90	1890	192.5	0.065