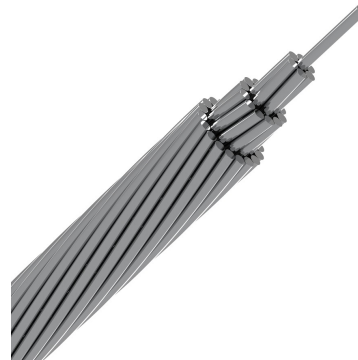


ACAR Conductor (Aluminum Conductor Alloy Reinforced, ASTM

Bare overhead conductor for standard-based line selection

ACAR Conductor (Aluminum Conductor Alloy Reinforced, ASTM B524) 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

Aluminum / aluminum alloy conductor route, confirmed by technical table

TYPICAL USE

Overhead transmission and distribution lines

STANDARDS

ASTM B524

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	Aluminum / aluminum alloy conductor route, confirmed by technical table
Standards	ASTM B524
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 B524 ACAR - Medium Cross Sections	250 - 556.5	15 / 4 - 30 / 7	14.61 - 21.79	349 - 777
ASTM B524 ACAR - Large Cross Sections for Transmission	636 - 1500	18 / 19 - 54 / 37	24.13 - 35.61	887 - 2093

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 B524 ACAR - Medium Cross Sections

Reference table for preliminary selection and quotation review.

Size (kcmil)	Stranding (1350 Al / 6201 Alloy)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B524 ACAR - Medium Cross Sections					
250	15 / 4	14.61	349	25.0	0.226
336.4	18 / 19	17.55	469	40.3	0.169
397.5	18 / 19	19.08	554	46.2	0.143
477	15 / 4	20.17	666	45.0	0.119
477	30 / 7	20.17	666	44.9	0.119
556.5	15 / 4	21.79	777	51.1	0.102
556.5	30 / 7	21.79	777	51.5	0.102

ASTM B524 ACAR - Large Cross Sections for Transmission

Reference table for preliminary selection and quotation review.

Size (kcmil)	Stranding (1350 Al / 6201 Alloy)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B524 ACAR - Large Cross Sections for Transmission					
636	18 / 19	24.13	887	71.6	0.090
636	54 / 7	24.13	887	56.4	0.089
795	18 / 19	26.97	1109	88.5	0.072
795	54 / 7	26.97	1109	70.3	0.071
954	30 / 7	28.37	1331	84.9	0.060
954	54 / 7	28.37	1331	83.1	0.060
1024.5	30 / 7	29.41	1430	90.7	0.056
1024.5	54 / 7	29.41	1430	89.4	0.056
1272	54 / 7	32.79	1776	110.8	0.045
1500	54 / 37	35.61	2093	135.6	0.038