

ACSR Conductor (Aluminum Conductor Steel Reinforced, ASTM

Bare overhead conductor for standard-based line selection

ACSR Conductor (Aluminum Conductor Steel Reinforced, ASTM B232) 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 B232

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	110kV, 220kV, 400kV, 500kV
Conductor	Aluminum / aluminum alloy conductor route, confirmed by technical table
Standards	ASTM B232
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 B232 ACSR - Distribution & Light Transmission Spans	6 AWG - 336.4 MCM	6/1 - 26/7	5.03 - 18.31	53 - 689
ASTM B232 ACSR - High Tension Transmission Grids	397.5 - 795	30/7 - 45/7	18.82 - 27.03	735 - 1330
ACSR Conductor (Aluminum Conductor Steel Reinforced, ASTM	795 - 2156	54/7 - 84/19	27.76 - 44.75	1520 - 3730

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 B232 ACSR - Distribution & Light Transmission Spans

Reference table for preliminary selection and quotation review.

Code Name	Size (AWG / MCM)	Stranding (Al / St)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B232 ACSR - Distribution & Light Transmission Spans						
Turkey	6 AWG	6/1	5.03	53	5.30	2.180
Swan	4 AWG	6/1	6.53	107	8.28	1.373
Sparrow	2 AWG	6/1	8.01	162	12.70	0.865
Robin	1 AWG	6/1	9.02	205	15.80	0.686
Raven	1/0 AWG	6/1	10.11	216	19.50	0.544
Quail	2/0 AWG	6/1	11.35	324	23.60	0.431
Pigeon	3/0 AWG	6/1	12.75	408	29.70	0.342
Penguin	4/0 AWG	6/1	14.31	516	37.20	0.271
Waxwing	266.8 MCM	18/1	15.47	501	30.40	0.218
Partridge	266.8 MCM	26/7	16.31	546	50.30	0.215
Ostrich	300 MCM	26/7	17.27	615	56.50	0.191
Merlin	336.4 MCM	18/1	17.37	632	38.40	0.173
Linnet	336.4 MCM	26/7	18.31	689	62.70	0.171

ASTM B232 ACSR - High Tension Transmission Grids

Reference table for preliminary selection and quotation review.

Code Name	Size (MCM)	Stranding (Al / St)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
ASTM B232 ACSR - High Tension Transmission Grids						
Oriole	397.5	30/7	18.82	735	73.00	0.145
Chickadee	397.5	18/1	18.87	747	43.30	0.146
Pelican	477	18/1	20.68	897	52.50	0.122
Flicker	477	24/7	21.39	957	76.10	0.122
Hawk	477	26/7	21.79	978	86.80	0.120
Hen	477	30/7	22.68	1165	111.20	0.121
Osprey	556.5	18/1	22.33	1046	61.30	0.104
Parakeet	556.5	24/7	23.11	1116	86.70	0.104
Dove	556.5	26/7	23.55	1140	100.10	0.103
Grosbeak	636	26/7	25.15	1300	112.10	0.090
Drake	795	26/7	28.14	1630	140.10	0.072
Tern	795	45/7	27.03	1330	98.30	0.073

ACSR Conductor (Aluminum Conductor Steel Reinforced, ASTM B232) - Technical Table 3

Reference table for preliminary selection and quotation review.

Code Name	Size (MCM)	Stranding (Al / St)	Overall Dia. (mm)	Weight (kg/km)	Rated Strength (kN)	DC Res. @20°C (Ω/km)
Condor	795	54/7	27.76	1520	125.40	0.072
Canary	900	54/7	29.54	1720	141.90	0.064
Rail	954	45/7	29.62	1598	115.20	0.061
Cardinal	954	54/7	30.38	1830	150.40	0.060
Ortolan	1033.5	45/7	30.84	1731	124.60	0.056
Curlew	1033.5	54/7	31.62	1980	162.40	0.055
Bluejay	1113	45/7	31.98	1863	132.60	0.052
Finch	1113	54/19	32.84	2130	181.50	0.051
Grackle	1192.5	54/19	34.01	2280	193.90	0.048
Bittern	1272	45/7	34.16	2128	151.70	0.046
Pheasant	1272	54/19	35.10	2440	206.80	0.045
Martin	1351.5	54/19	36.17	2590	217.10	0.042
Bobolink	1431	45/7	36.25	2394	170.80	0.041
Lapwing	1590	45/7	38.20	2661	187.70	0.037
Falcon	1590	54/19	39.24	3050	251.30	0.036
Chukar	1780	84/19	40.69	3080	226.90	0.033
Bluebird	2156	84/19	44.75	3730	268.00	0.027