

Aluminum / 8000 Alloy Concentric Cable

Concentric cable for service entrance and utility distribution review

Aluminum / 8000 Alloy Concentric Cable is prepared for preliminary product selection and quotation review. This product is used for low or medium voltage service connections and utility distribution where concentric neutral or earth construction is required. Cable structure, conductor material, insulation level and applicable standard should be reviewed according to the project route.



VOLTAGE

600V, 0.6/1kV

CONDUCTOR

Aluminum alloy AA-8000
conductor route, confirmed
by technical table

TYPICAL USE

Service entrance connections

STANDARDS

UL 854; ASTM B800; ASTM
B801; KS 04

DATA SCOPE

2 technical table(s) included
for preliminary selection

SELECTION NOTE

Confirm voltage, conductor,
neutral/earth arrangement,
sheath and installation route.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- Service entrance connections
- utility distribution networks
- overhead or underground service routes
- projects requiring concentric neutral or earth cable construction.

Selection logic

- Confirm voltage grade, conductor material, concentric neutral or earth arrangement, installation route and required standard.
- For utility projects, local grid practice and tender documents should be checked before final selection.

Construction Overview

Item	Website-ready content
Product route	Phase conductor with insulation and concentric neutral/earth wires or screen arrangement. Outer sheath and detailed structure depend on the project standard and product type.
Voltage	600V, 0.6/1kV
Conductor	Aluminum alloy AA-8000 conductor route, confirmed by technical table
Standards	UL 854; ASTM B800; ASTM B801; KS 04
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
8000 Series Alloy, XHHW-2 Insulated, Type SEU (600V)	8 AWG - 4/0 AWG	12 x #18 AWG - 19 x #10 AWG	0.45 x 0.72 - 0.98 x 1.72	110 - 765
8000 Series Alloy Straight Concentric (Metric Sizes, 0.6/1)	1 x 10 - 1 x 35	1.7mm x 5 - 2.1mm x 10	11.5 - 17.2	165 - 420

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.

8000 Series Alloy, XHHW-2 Insulated, Type SEU (600V)

Reference table for preliminary selection and quotation review.

Conductor Size (AWG/kcmil)	Insulation Thick. (mils)	Concentric Neutral Wires	Approx OD (inch)	Weight (lbs/1000ft)
8000 Series Alloy, XHHW-2 Insulated, Type SEU (600V)				
8 AWG	45	12 x #18 AWG	0.45 x 0.72	110
6 AWG	45	14 x #16 AWG	0.52 x 0.85	155
4 AWG	45	14 x #14 AWG	0.58 x 0.95	210
2 AWG	45	16 x #14 AWG	0.65 x 1.08	285
1/0 AWG	55	15 x #12 AWG	0.78 x 1.32	420
2/0 AWG	55	19 x #12 AWG	0.85 x 1.45	515
4/0 AWG	55	19 x #10 AWG	0.98 x 1.72	765

8000 Series Alloy Straight Concentric (Metric Sizes, 0.6/1kV)

Reference table for preliminary selection and quotation review.

Nom. Area (mm²)	Phase Conductor Dia. (mm)	Concentric Alloy Wires	Approx OD (mm)	Weight (kg/km)
8000 Series Alloy Straight Concentric (Metric Sizes, 0.6/1kV)				
1 x 10	4.0	1.7mm x 5	11.5	165
1 x 16	5.1	1.7mm x 7	13.2	210
1 x 25	6.4	2.1mm x 7	15.5	310
1 x 35	7.5	2.1mm x 10	17.2	420