

Concentric Cable LV ASTM B800

Concentric cable for service entrance and utility distribution review

Concentric Cable LV ASTM B800 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, 1000V

CONDUCTOR

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

TYPICAL USE

Service entrance connections

STANDARDS

ASTM B800

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, 1000V
Conductor	Aluminum alloy AA-8000 conductor route, confirmed by technical table
Standards	ASTM B800
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 B800 Concentric (1 Insulated AA-8000 Phase + Bare AA-	8 - 2/0	See table	0.38 - 0.74	75 - 390
ASTM B800 Concentric (2 Insulated AA-8000 Phases + Bare AA	8 - 2/0	See table	0.55 - 1.15	135 - 750

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 B800 Concentric (1 Insulated AA-8000 Phase + Bare AA-8000 Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG)	Concentric Neutral Size (AWG)	Insulation Thick. (mils)	Approx. Overall Dia. (inches)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (90°C)
ASTM B800 Concentric (1 Insulated AA-8000 Phase + Bare AA-8000 Concentric Neutral)					
8	8	45	0.38	75	45 A
6	6	45	0.45	105	55 A
4	4	45	0.52	150	75 A
2	2	45	0.58	215	100 A
1/0	1/0	55	0.68	325	135 A
2/0	2/0	55	0.74	390	150 A

ASTM B800 Concentric (2 Insulated AA-8000 Phases + Bare AA-8000 Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG)	Concentric Neutral Size (AWG)	Insulation Thick. (mils)	Approx. Overall Dia. (inches)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (90°C)
ASTM B800 Concentric (2 Insulated AA-8000 Phases + Bare AA-8000 Concentric Neutral)					
8	8	45	0.55	135	45 A
6	6	45	0.65	195	55 A
4	4	45	0.76	280	75 A
2	2	45	0.85	410	100 A
1/0	1/0	55	1.05	620	135 A
2/0	2/0	55	1.15	750	150 A