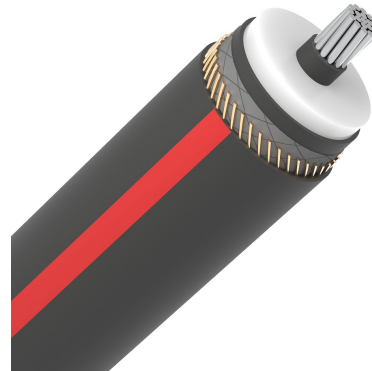


Concentric Cable MV ASTM B230 / B231 / B609

Concentric cable for service entrance and utility distribution review

Concentric Cable MV ASTM B230 / B231 / B609 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

15kV, 25kV, 35kV

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Service entrance connections

STANDARDS

ASTM B231; ASTM B399;
ASTM B230; ASTM B609;
additional project standards

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	15kV, 25kV, 35kV
Conductor	Confirmed by product standard and project requirement
Standards	ASTM B231; ASTM B399; ASTM B230; ASTM B609; ICEA S-94-649
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 / ICEA S-94-649 - 15kV URD (Al Phase + 1/3 Copper Con)	1/0 AWG - 1000 MCM	6 x 14 AWG - 32 x 12 AWG	1.16 - 2.02	515 - 2565
ASTM / ICEA S-94-649 - 25kV URD (Al Phase + 1/3 Copper Con)	1/0 AWG - 1000 MCM	6 x 14 AWG - 32 x 12 AWG	1.36 - 2.25	670 - 2950

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 / ICEA S-94-649 - 15kV URD (Al Phase + 1/3 Copper Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG/MCM)	Insulation Thickness (mils)	Concentric Neutral Wires (No. x AWG)	Approx. Overall Dia. (in)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (Direct Burial)*
ASTM / ICEA S-94-649 - 15kV URD (Al Phase + 1/3 Copper Concentric Neutral)					
1/0 AWG	175	6 x 14 AWG	1.16	515	215 A
2/0 AWG	175	7 x 14 AWG	1.21	585	245 A
3/0 AWG	175	9 x 14 AWG	1.26	665	275 A
4/0 AWG	175	11 x 14 AWG	1.31	765	315 A
250 MCM	175	13 x 14 AWG	1.38	885	345 A
350 MCM	175	12 x 12 AWG	1.48	1125	415 A
500 MCM	175	16 x 12 AWG	1.62	1460	500 A
750 MCM	175	24 x 12 AWG	1.82	2010	615 A
1000 MCM	175	32 x 12 AWG	2.02	2565	715 A

ASTM / ICEA S-94-649 - 25kV URD (Al Phase + 1/3 Copper Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG/MCM)	Insulation Thickness (mils)	Concentric Neutral Wires (No. x AWG)	Approx. Overall Dia. (in)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (Direct Burial)*
ASTM / ICEA S-94-649 - 25kV URD (Al Phase + 1/3 Copper Concentric Neutral)					
1/0 AWG	260	6 x 14 AWG	1.36	670	215 A
2/0 AWG	260	7 x 14 AWG	1.41	740	245 A
3/0 AWG	260	9 x 14 AWG	1.46	835	275 A
4/0 AWG	260	11 x 14 AWG	1.52	960	315 A
250 MCM	260	13 x 14 AWG	1.58	1080	350 A
350 MCM	260	12 x 12 AWG	1.69	1340	420 A
500 MCM	260	16 x 12 AWG	1.85	1750	510 A
750 MCM	260	24 x 12 AWG	2.05	2380	630 A
1000 MCM	260	32 x 12 AWG	2.25	2950	730 A