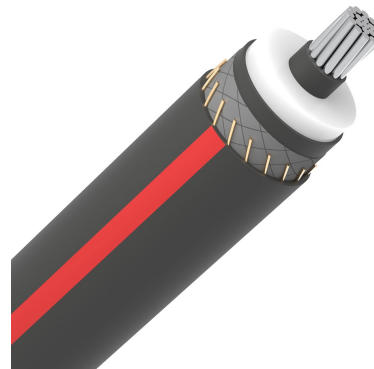


15 kV Concentric Cable

Concentric cable for service entrance and utility distribution review

15 kV 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

15kV

CONDUCTOR

Copper conductor route, confirmed by technical table

TYPICAL USE

Service entrance connections

STANDARDS

ICEA S-94-649; UL 1072

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
Conductor	Copper conductor route, confirmed by technical table
Standards	ICEA S-94-649; UL 1072
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
ICEA S-94-649 - 15kV URD (AI Phase + Full Copper Concentric)	2 AWG - 4/0 AWG	16 x 14 AWG - 20 x 10 AWG	1.08 / 27.4 - 1.31 / 33.3	535 / 796 - 1210 / 1800
ICEA S-94-649 - 15kV URD (AI Phase + 1/3 Copper Concentric)	1/0 AWG - 1000 MCM	6 x 12 AWG - 32 x 10 AWG	1.25 / 31.8 - 2.12 / 53.8	585 / 870 - 2760 / 4107

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.

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

Reference table for preliminary selection and quotation review.

Phase Size (AWG/MCM)	Insulation Thickness (mils / mm)	Concentric Neutral Wires (No. x AWG)	Approx. Overall Dia. (in / mm)	Approx. Weight (lbs/1000ft / kg/km)	Allowable Ampacity (Direct Burial)*
ICEA S-94-649 - 15kV URD (Al Phase + Full Copper Concentric Neutral)					
2 AWG	175 / 4.45	16 x 14 AWG	1.08 / 27.4	535 / 796	165 A
1 AWG	175 / 4.45	13 x 12 AWG	1.12 / 28.4	635 / 945	185 A
1/0 AWG	175 / 4.45	16 x 12 AWG	1.16 / 29.5	735 / 1093	215 A
2/0 AWG	175 / 4.45	13 x 10 AWG	1.21 / 30.7	870 / 1294	245 A
3/0 AWG	175 / 4.45	16 x 10 AWG	1.26 / 32.0	1025 / 1525	275 A
4/0 AWG	175 / 4.45	20 x 10 AWG	1.31 / 33.3	1210 / 1800	315 A

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 / mm)	Concentric Neutral Wires (No. x AWG)	Approx. Overall Dia. (in / mm)	Approx. Weight (lbs/1000ft / kg/km)	Allowable Ampacity (Direct Burial)*
ICEA S-94-649 - 15kV URD (Al Phase + 1/3 Copper Concentric Neutral)					
1/0 AWG	220 / 5.59	6 x 12 AWG	1.25 / 31.8	585 / 870	210 A
2/0 AWG	220 / 5.59	7 x 12 AWG	1.30 / 33.0	655 / 975	240 A
3/0 AWG	220 / 5.59	9 x 12 AWG	1.35 / 34.3	745 / 1108	270 A
4/0 AWG	220 / 5.59	11 x 12 AWG	1.40 / 35.6	860 / 1280	310 A
250 MCM	220 / 5.59	13 x 12 AWG	1.47 / 37.3	990 / 1473	345 A
350 MCM	220 / 5.59	18 x 12 AWG	1.57 / 39.9	1235 / 1838	415 A
500 MCM	220 / 5.59	16 x 10 AWG	1.71 / 43.4	1590 / 2366	500 A
750 MCM	220 / 5.59	24 x 10 AWG	1.92 / 48.8	2175 / 3236	615 A
1000 MCM	220 / 5.59	32 x 10 AWG	2.12 / 53.8	2760 / 4107	715 A