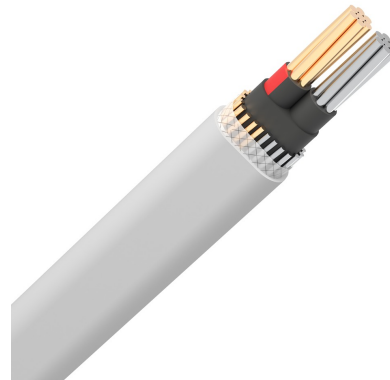


Copper Concentric Flat Cable LV UL 854 / ASTM B800

Concentric cable for service entrance and utility distribution review

Copper Concentric Flat Cable LV UL 854 / 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

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Service entrance connections

STANDARDS

UL 854; ASTM B800; ASTM B3

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
Conductor	Confirmed by product standard and project requirement
Standards	UL 854; ASTM B800; ASTM B3
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
UL 854 Type SEU (1 Insulated Cu Phase + 1 Bare Cu Concentr	8 AWG - 2/0 AWG	See table	See table	95 - 635
UL 854 Type SEU (2 Insulated Cu Phases + 1 Bare Cu Concent	8 AWG - 2/0 AWG	See table	See table	135 - 810

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.

UL 854 Type SEU (1 Insulated Cu Phase + 1 Bare Cu Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG)	Neutral Size (Equivalent AWG)	Insulation Thickness (mils)	Approx. Dimensions (inches)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (75°C / 90°C)*
UL 854 Type SEU (1 Insulated Cu Phase + 1 Bare Cu Concentric Neutral)					
8 AWG	8	45	0.28 x 0.45	95	50 A / 55 A
6 AWG	6	45	0.32 x 0.52	145	65 A / 75 A
4 AWG	4	45	0.36 x 0.60	215	85 A / 95 A
2 AWG	2	45	0.42 x 0.72	330	115 A / 130 A
1/0 AWG	1/0	55	0.50 x 0.88	515	150 A / 170 A
2/0 AWG	2/0	55	0.54 x 0.96	635	175 A / 195 A

UL 854 Type SEU (2 Insulated Cu Phases + 1 Bare Cu Concentric Neutral)

Reference table for preliminary selection and quotation review.

Phase Size (AWG)	Neutral Size (Equivalent AWG)	Insulation Thickness (mils)	Approx. Dimensions (inches)	Approx. Weight (lbs/1000ft)	Allowable Ampacity (75°C / 90°C)*
UL 854 Type SEU (2 Insulated Cu Phases + 1 Bare Cu Concentric Neutral)					
8 AWG	8	45	0.35 x 0.55	135	50 A / 55 A
6 AWG	6	45	0.39 x 0.63	195	65 A / 75 A
4 AWG	4	45	0.44 x 0.73	285	85 A / 95 A
2 AWG	2	45	0.50 x 0.86	425	115 A / 130 A
1/0 AWG	1/0	55	0.60 x 1.05	650	150 A / 170 A
2/0 AWG	2/0	55	0.65 x 1.15	810	175 A / 195 A