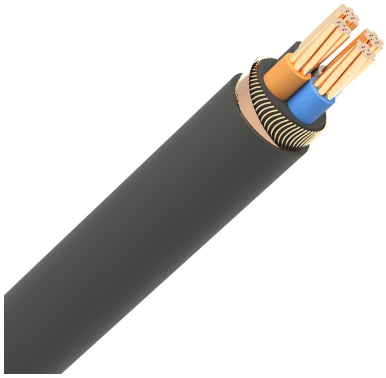
Concentric Cable LV IEC 60502-1

Concentric cable for service entrance and utility distribution review

Concentric Cable LV IEC 60502-1 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

0.6/1kV

CONDUCTOR

Copper or aluminum conductor route, according to product standard

TYPICAL USE

Service entrance connections

STANDARDS

IEC 60502-1

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	0.6/1kV
Conductor	Copper or aluminum conductor route, according to product standard
Standards	IEC 60502-1
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
IEC 60502-1 Concentric Cable (Aluminum Phase / Aluminum Co	1 x 10 mm² + 10 mm² - 3 x 35 mm² + 16 mm²	See table	11.5 - 25.5	145 - 640
Cable Concéntrico (Copper Phase / Copper Concentric)	2 x 8 AWG (~8.3 mm²) - 1 x 16 mm² + 16 mm²	See table	10.8 - 12.8	205 - 325

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.

IEC 60502-1 Concentric Cable (Aluminum Phase / Aluminum Concentric)

Reference table for preliminary selection and quotation review.

Nom. Area (Phase + Concentric)	Phase Insulation Thickness (mm)	Outer Sheath Thickness (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Max DC Res. @20°C (Ω/km) Phase
IEC 60502-1 Concentric Cable (Aluminum Phase / Aluminum Concentric)					
1 x 10 mm² + 10 mm²	0.7	1.4	11.5	145	3.08
1 x 16 mm² + 16 mm²	0.7	1.4	12.8	190	1.91
1 x 25 mm² + 25 mm²	0.9	1.4	15.0	280	1.20
1 x 35 mm² + 35 mm²	0.9	1.4	16.5	360	0.868
Multi-Core Concentric Cable (Aluminum)					
2 x 10 mm² + 10 mm²	0.7	1.4	14.5	210	3.08
2 x 16 mm² + 16 mm²	0.7	1.4	16.5	290	1.91
ri3p x t25io mnm² + 16 mm²	0.9	1.6	23.0	510	1.20
3 x 35 mm² + 16 mm²	0.9	1.6	25.5	640	0.868

Cable Concéntrico (Copper Phase / Copper Concentric)

Reference table for preliminary selection and quotation review.

Nom. Area (AWG/Metric)	Phase Insulation Thickness (mm)	Outer Sheath Thickness (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Max DC Res. @20°C (Ω/km) Phase
Cable Concéntrico (Copper Phase / Copper Concentric)					
2 x 8 AWG (~8.3 mm²)	0.7	1.4	10.8	205	2.14
2 x 6 AWG (~13.3 mm²)	0.7	1.4	12.2	285	1.35
2 x 4 AWG (~21.1 mm²)	0.9	1.4	14.5	415	0.85
1 x 4 mm² + 4 mm²	0.7	1.4	9.5	130	4.61
1 x 6 mm² + 6 mm²	0.7	1.4	10.2	165	3.08
1 x 10 mm² + 10 mm²	0.7	1.4	11.5	235	1.83
1 x 16 mm² + 16 mm²	0.7	1.4	12.8	325	1.15