

GB/T 12706.1

Power cable for distribution, infrastructure and industrial supply

GB/T 12706.1 is prepared for preliminary product selection and quotation review. This product is used for power distribution and project supply where voltage grade, conductor size, insulation system and installation condition determine the cable selection. Parameters should be reviewed against the selected standard and project specification.



VOLTAGE

0.6/1kV, 1.2kV

CONDUCTOR

Copper or aluminum conductor route, according to product standard

TYPICAL USE

Power distribution networks

STANDARDS

GB/T 12706; IEC 60502-1

DATA SCOPE

2 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm voltage, conductor, armour, 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

- Power distribution networks
- industrial plants
- infrastructure projects
- underground or indoor power supply routes
- renewable energy and utility projects requiring project-based cable review.

Selection logic

- Confirm voltage grade, conductor material, armour requirement, insulation/sheath material, installation environment and applicable standard before quotation or production confirmation.

Construction Overview

Item	Website-ready content
Product route	Copper or aluminum conductor with insulation, bedding, optional armour and outer sheath according to product type and project requirement.
Voltage	0.6/1kV, 1.2kV
Conductor	Copper or aluminum conductor route, according to product standard
Standards	GB/T 12706; 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
4 Core - YJV Unarmoured (GB/T 12706.1 / IEC 60502-1)	4 x 16 - 4 x 400	See table	20.5 - 76.5	920 - 19550
4 Core - YJV22 Steel Tape Armoured (GB/T 12706.1)	4 x 16 - 4 x 400	See table	21.5 - 78.5	1150 - 21050

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.

4 Core - YJV Unarmoured (GB/T 12706.1 / IEC 60502-1)

Reference table for preliminary selection and quotation review.

Area (mm ²)	Nom. XLPE Insulation (mm)	Nom. Outer Sheath (mm)	Approx OD (mm)	Weight (kg/km)
4 Core - YJV Unarmoured (GB/T 12706.1 / IEC 60502-1)				
4 x 16	0.7	1.8	20.5	920
4 x 25	0.9	1.8	24.5	1450
4 x 35	0.9	1.8	26.5	1850
4 x 50	1.0	1.8	29.8	2450
4 x 70	1.1	2.0	34.5	3450
4 x 95	1.1	2.1	39.5	4750
4 x 120	1.2	2.2	44.5	5950
4 x 150	1.4	2.3	48.5	7350
4 x 185	1.6	2.5	54.2	9150
4 x 240	1.7	2.7	61.5	11850
4 x 300	1.8	2.9	68.2	15150
4 x 400	2.0	3.1	76.5	19550

4 Core - YJV22 Steel Tape Armoured (GB/T 12706.1)

Reference table for preliminary selection and quotation review.

Area (mm ²)	Nom. XLPE Insulation (mm)	Steel Tape Thick. (mm)	Approx OD (mm)	Weight (kg/km)
4 Core - YJV22 Steel Tape Armoured (GB/T 12706.1)				
4 x 16	0.7	0.2	21.5	1150
4 x 25	0.9	0.2	25.2	1720
4 x 35	0.9	0.2	27.5	2150
4 x 50	1.0	0.2	30.8	2750
4 x 70	1.1	0.5	36.5	4150
4 x 95	1.1	0.5	41.5	5550
4 x 120	1.2	0.5	46.5	6850
4 x 150	1.4	0.5	50.5	8350
4 x 185	1.6	0.5	56.2	10250
4 x 240	1.7	0.5	63.5	13250
4 x 300	1.8	0.5	70.2	16550
4 x 400	2.0	0.5	78.5	21050