

Copper Power Cable

Power cable for distribution, infrastructure and industrial supply

Copper Power Cable 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, 18/30kV

CONDUCTOR

Copper conductor route, according to standard

TYPICAL USE

Power distribution networks

STANDARDS

IEC 60228; IEC 60502-1/2;
BS 5467; GB/T 12706

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.

ethan@farwalkcable.com | +86 155 5800 6344

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, 18/30kV
Conductor	Copper conductor route, according to standard
Standards	IEC 60228; IEC 60502-1/2; BS 5467; GB/T 12706
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
3 Core - Unarmoured Copper Cable (0.6/1kV)	3 x 1.5 - 4 x 400	See table	10.5 - 76.5	150 - 19550
3 Core - SWA Armoured Copper Cable (0.6/1kV)	3 x 1.5 - 4 x 400	See table	12.5 - 78.5	325 - 21550

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.

3 Core - Unarmoured Copper Cable (0.6/1kV)

Reference table for preliminary selection and quotation review.

Area (mm²)	Insulation Thick. (mm)	Outer Sheath (mm)	Approx OD (mm)	Weight (kg/km)
3 Core - Unarmoured Copper Cable (0.6/1kV)				
3 x 1.5	0.7	1.8	10.5	150
3 x 2.5	0.7	1.8	11.5	200
3 x 4	0.7	1.8	12.5	260
3 x 6	0.7	1.8	13.5	330
3 x 10	0.7	1.8	15.2	480
3 x 16	0.7	1.8	18.8	720
3 x 25	0.9	1.8	22.5	1150
3 x 35	0.9	1.8	23.5	1380
3 x 50	1.0	1.8	26.5	1820
3 x 70	1.1	1.9	30.8	2550
3 x 95	1.1	2.1	35.5	3520
3 x 120	1.2	2.1	39.2	4380
3 x 150	1.4	2.2	43.5	5450
3 x 185	1.6	2.4	48.2	6750
3 x 240	1.7	2.6	54.8	8850
3 x 300	1.8	2.8	60.5	11250
3 x 400	2.0	3.0	68.5	14550
4 Core - Unarmoured Copper Cable (0.6/1kV)				
4 x 1.5	0.7	1.8	11.2	180
4 x 2.5	0.7	1.8	12.5	240
4 x 4	0.7	1.8	13.5	320
4 x 6	0.7	1.8	14.8	420

3 Core - Unarmoured Copper Cable (0.6/1kV) - continued

Reference table for preliminary selection and quotation review.

Area (mm ²)	Insulation Thick. (mm)	Outer Sheath (mm)	Approx OD (mm)	Weight (kg/km)
4 x 10	0.7	1.8	16.8	620
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

3 Core - SWA Armoured Copper Cable (0.6/1kV)

Reference table for preliminary selection and quotation review.

Area (mm²)	Insulation Thick. (mm)	SWA Dia. (mm)	Approx OD (mm)	Weight (kg/km)
3 Core - SWA Armoured Copper Cable (0.6/1kV)				
3 x 1.5	0.7	0.9	12.5	325
3 x 2.5	0.7	0.9	13.5	375
3 x 4	0.7	0.9	14.8	450
3 x 6	0.7	0.9	15.8	550
3 x 10	0.7	1.25	18.2	780
3 x 16	0.7	1.25	20.5	950
3 x 25	0.9	1.6	25.2	1550
3 x 35	0.9	1.6	27.5	1850
3 x 50	1.0	1.6	30.5	2350
3 x 70	1.1	2.0	35.5	3450
3 x 95	1.1	2.0	39.5	4450
3 x 120	1.2	2.5	44.5	5850
3 x 150	1.4	2.5	48.2	7050
3 x 185	1.6	2.5	52.5	8550
3 x 240	1.7	2.5	58.8	10850
3 x 300	1.8	2.5	64.2	13150
3 x 400	2.0	2.5	71.5	16550
4 Core - SWA Armoured Copper Cable (0.6/1kV)				
4 x 1.5	0.7	0.9	13.2	360
4 x 2.5	0.7	0.9	14.5	420
4 x 4	0.7	0.9	15.5	520
4 x 6	0.7	1.25	17.2	720

3 Core - SWA Armoured Copper Cable (0.6/1kV) - continued

Reference table for preliminary selection and quotation review.

Area (mm ²)	Insulation Thick. (mm)	SWA Dia. (mm)	Approx OD (mm)	Weight (kg/km)
4 x 10	0.7	1.25	19.5	950
4 x 16	0.7	1.25	21.5	1150
4 x 25	0.9	1.6	27.2	1850
4 x 35	0.9	1.6	29.5	2250
4 x 50	1.0	1.6	31.8	2750
4 x 70	1.1	2.0	38.5	4200
4 x 95	1.1	2.0	42.5	5450
4 x 120	1.2	2.5	48.2	7250
4 x 150	1.4	2.5	52.5	8750
4 x 185	1.6	2.5	57.5	10550
4 x 240	1.7	2.5	64.8	13550
4 x 300	1.8	2.5	70.5	16550
4 x 400	2.0	3.15	78.5	21550