

Unarmoured Control Cable

Control cable for signal, control and instrumentation circuits

Unarmoured Control Cable is prepared for preliminary product selection and quotation review. This product is used for control, monitoring and signal circuits where core number, conductor size, shielding, flame performance and installation environment affect cable selection.



VOLTAGE

450/750V, 0.6/1kV

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Control panels

STANDARDS

GB/T 9330; IEC 60227; VDE 0250; BS EN 50525

DATA SCOPE

2 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm cores, conductor size, screen/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

- Control panels
- instrumentation circuits
- industrial automation
- substation control systems
- building services and process equipment control wiring.

Selection logic

- Confirm core number, conductor size, shielding or armour requirement, flame-retardant requirement and installation environment.
- Project standards should be reviewed before final cable confirmation.

Construction Overview

Item	Website-ready content
Product route	Multi-core copper conductor with insulation, optional screen or armour and outer sheath according to the selected cable type.
Voltage	450/750V, 0.6/1kV
Conductor	Confirmed by product standard and project requirement
Standards	GB/T 9330; IEC 60227; VDE 0250; BS EN 50525
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
450/750V Unarmoured Control Cable (Class 2 Stranded Copper)	2 x 1.5 - 7 x 2.5	2 x 1.5 - 7 x 2.5	8.5 - 13.6	12.1 - 7.41
450/750V High-Density Control Cable (Number Coded Cores)	10 x 1.5 - 37 x 2.5	10 x 1.5 - 37 x 2.5	14.5 - 28.5	12.1 - 7.41

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.

450/750V Unarmoured Control Cable (Class 2 Stranded Copper)

Reference table for preliminary selection and quotation review.

No. of Cores x Cross Section (mm ²)	Nominal Conductor Dia. (mm)	Nominal Insulation Thick. (mm)	Nominal Sheath Thick. (mm)	Approx. Overall Dia. (mm)	Max. DC Resistance @ 20°C (Ω/km)
450/750V Unarmoured Control Cable (Class 2 Stranded Copper)					
2 x 1.5	1.56	0.7	1.2	8.5	12.1
3 x 1.5	1.56	0.7	1.2	9.0	12.1
4 x 1.5	1.56	0.7	1.2	9.8	12.1
5 x 1.5	1.56	0.7	1.2	10.6	12.1
7 x 1.5	1.56	0.7	1.2	11.5	12.1
2 x 2.5	2.01	0.8	1.2	10.0	7.41
3 x 2.5	2.01	0.8	1.2	10.5	7.41
4 x 2.5	2.01	0.8	1.2	11.5	7.41
5 x 2.5	2.01	0.8	1.2	12.5	7.41
7 x 2.5	2.01	0.8	1.2	13.6	7.41

450/750V High-Density Control Cable (Number Coded Cores)

Reference table for preliminary selection and quotation review.

No. of Cores x Cross Section (mm ²)	Nominal Conductor Dia. (mm)	Nominal Insulation Thick. (mm)	Nominal Sheath Thick. (mm)	Approx. Overall Dia. (mm)	Max. DC Resistance @ 20°C (Ω/km)
450/750V High-Density Control Cable (Number Coded Cores)					
10 x 1.5	1.56	0.7	1.5	14.5	12.1
14 x 1.5	1.56	0.7	1.5	15.8	12.1
19 x 1.5	1.56	0.7	1.5	17.5	12.1
24 x 1.5	1.56	0.7	1.7	20.2	12.1
30 x 1.5	1.56	0.7	1.7	21.5	12.1
37 x 1.5	1.56	0.7	1.7	23.2	12.1
44 x 1.5	1.56	0.7	1.9	26.5	12.1
61 x 1.5	1.56	0.7	2.1	30.5	12.1
19 x 2.5	2.01	0.8	1.7	21.5	7.41
37 x 2.5	2.01	0.8	1.9	28.5	7.41