

Control Cable IEC Standard

Control cable for signal, control and instrumentation circuits

Control Cable IEC Standard 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

IEC 60502-1; IEC 60228; IEC 60332; IEC 60227-7

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.

ethan@farwalkcable.com | +86 155 5800 6344

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	IEC 60502-1; IEC 60228; IEC 60332; IEC 60227-7
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 60227-7 - 450/750V Control Cable (Stranded Copper - PV)	2 x 1.5 - 19 x 2.5	2 x 1.5 - 19 x 2.5	8.5 - 21.5	12.1 - 7.41
IEC 60502-1 - 0.6/1kV High-Temp Control Cable (Stranded Co	2 x 1.5 - 19 x 2.5	2 x 1.5 - 19 x 2.5	9.6 - 20.5	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.

IEC 60227-7 - 450/750V Control Cable (Stranded Copper - PVC/PVC)

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)
IEC 60227-7 - 450/750V Control Cable (Stranded Copper - PVC/PVC)					
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
7 x 1.5	1.56	0.7	1.2	11.5	12.1
10 x 1.5	1.56	0.7	1.5	14.5	12.1
19 x 1.5	1.56	0.7	1.5	17.5	12.1
37 x 1.5	1.56	0.7	1.7	23.2	12.1
2 x 2.5	2.01	0.8	1.2	10.0	7.41
4 x 2.5	2.01	0.8	1.2	11.5	7.41
19 x 2.5	2.01	0.8	1.7	21.5	7.41

IEC 60502-1 - 0.6/1kV High-Temp Control Cable (Stranded Copper - XLPE/PVC)

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)
IEC 60502-1 - 0.6/1kV High-Temp Control Cable (Stranded Copper - XLPE/PVC)					
2 x 1.5	1.56	0.7	1.8	9.6	12.1
3 x 1.5	1.56	0.7	1.8	10.1	12.1
4 x 1.5	1.56	0.7	1.8	10.9	12.1
7 x 1.5	1.56	0.7	1.8	12.0	12.1
10 x 1.5	1.56	0.7	1.8	14.8	12.1
19 x 1.5	1.56	0.7	1.8	18.0	12.1
37 x 1.5	1.56	0.7	1.8	23.5	12.1
2 x 2.5	2.01	0.7	1.8	10.5	7.41
4 x 2.5	2.01	0.7	1.8	12.1	7.41
19 x 2.5	2.01	0.7	1.8	20.5	7.41