

Instrumentation Cable BS EN 50288-7

Control cable for signal, control and instrumentation circuits

Instrumentation Cable BS EN 50288-7 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

300V, 300/500V

CONDUCTOR

Tinned copper conductor route, confirmed by technical table

TYPICAL USE

Control panels

STANDARDS

BS EN 50288-7

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.

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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	300V, 300/500V
Conductor	Tinned copper conductor route, confirmed by technical table
Standards	BS EN 50288-7
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
300/500V OS Instrumentation Cable (Twisted Pairs + Overall)	1 x 2 x 1.5 - 24 x 2 x 1.5	See table	7.5 - 28.5	85 - 1120
Instrumentation Cable BS EN 50288-7 - Technical Table 2	2 x 2 x 1.5 - 24 x 2 x 1.5	See table	12.8 - 33.5	195 - 1520

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.

300/500V OS Instrumentation Cable (Twisted Pairs + Overall Aluminum Foil - XLPE/OS/PVC)

Reference table for preliminary selection and quotation review.

No. of Pairs x Cross Section (mm ²)	Nominal Conductor Dia. (mm)	Nominal Insulation Thick. (mm)	Nominal Sheath Thick. (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)
300/500V OS Instrumentation Cable (Twisted Pairs + Overall Aluminum Foil - XLPE/OS/PVC)					
1 x 2 x 1.5	1.56	0.6	1.0	7.5	85
2 x 2 x 1.5	1.56	0.6	1.0	11.2	145
4 x 2 x 1.5	1.56	0.6	1.1	12.5	230
8 x 2 x 1.5	1.56	0.6	1.2	16.8	410
12 x 2 x 1.5	1.56	0.6	1.3	20.5	585
16 x 2 x 1.5	1.56	0.6	1.4	23.5	750
24 x 2 x 1.5	1.56	0.6	1.5	28.5	1120

Instrumentation Cable BS EN 50288-7 - Technical Table 2

Reference table for preliminary selection and quotation review.

No. of Pairs x Cross Section (mm ²)	Nominal Conductor Dia. (mm)	Nominal Insulation Thick. (mm)	Nominal Sheath Thick. (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)
300/500V IS/OS Instrumentation Cable (Twisted Pairs + Ind. & Overall Foil - XLPE/IS/OS/PVC)					
2 x 2 x 1.5	1.56	0.6	1.1	12.8	195
4 x 2 x 1.5	1.56	0.6	1.2	14.5	310
8 x 2 x 1.5	1.56	0.6	1.3	19.5	560
12 x 2 x 1.5	1.56	0.6	1.4	24.2	810
16 x 2 x 1.5	1.56	0.6	1.5	27.5	1050
24 x 2 x 1.5	1.56	0.6	1.7	33.5	1520