

Instrumentation cables BS 5308 Part 1 type 1
Multipair, PE insulated, screened, PVC outer sheath



Type

PE/OS/PVC 300/500 V

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Conductor

Plain annealed copper conductor according to BS 6360.

- 0,50 mm² class 5 (16/0,2)

- 0,75 mm² class 5 (24/0,2)

- 1,5 mm² class 2 (7/0,53)

Insulation

Polyethylene according to BS 6234

Laying up

Core are twisted to pairs

Identification pairs : - collectively screened pairs conform to the coding of Appendix BS 5308 Part 1

- each individually screened pair has one black and one blue core, numbered

Individual screen

Each pair shall have a laminated screening tape of aluminium bonded to polyester, with copper tinned drain wire in electrical contact with the metallic side tape. Over the screening tape shall be applied a binder of PET tape.

Overall screen

Over the pair layer will be shielded with aluminium/mylar tape, with copper drain wire

20 AWG placed between the aluminium/mylar tape and further mylar tape.

The drain wire is layed up with the other conductors.

Outer sheath

PVC type TM1 according to BS 6746

Marking

On the outer sheath " manufacturer's name, year & description cable " with ink-jet printer.

Performance

Reaction to fire - Flame propagation : Test of single cable acc. IEC 60332.1

Minimum bending radius

6 times overall diameter

Technical data & Electrical properties

Temperature rating : - during operation - 40 + 70°C

- during installation - 5 + 50°C

Conductor resistance : acc. to BS 6360

Insulation resistance : > 5.000 Mohm x Km

Mutual capacitance : < 115 nF/Km

L/R Ratio < 40 μH/Ohm

Test voltage - Core/core : 2.000 V

- Core/screen : 1.000 V

Operating voltage : max 500 V