

Instrumentation cables BS 5308 Part 2 type 2
Multipair, PVC insulated, screened, armoured, PVC sheath



Type

PVC/OS/PVC SWA/PVC 300/500 V
PVC/IS/OS/PVC/SWA/PVC 300/500 V

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

PVC type TI1 according to BS 6746

Laying up

Core are twisted to pairs

- Identification pairs : - collectively screened pairs conform to the coding of Appendix BS 5308 Part 2
- each individually screened pair has one white 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.

Bedding

PVC type TM1 according to BS 6746

Armour

Galvanized steel wires according to BS 1442

Outer sheath

PVC type TM1 according to BS 6746, black

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

10 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 : > 25 Mohm x Km

Mutual capacitance : < 250 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