

**Instrumentation cables BS 5308 Part 1 type 2**  
**Multipair, PE insulated, screened, armoured, PVC sheath**



**Type** PE/OS/PE/SWA/PVC 300/500 V  
PE/IS/OS/PE/SWA/PVC 300/500 V

**Conductor**

Plain annealed copper conductor according to BS 6360.

- 0,50 mm<sup>2</sup> class 5 (16/0,2)
- 0,75 mm<sup>2</sup> class 5 (24/0,2)
- 1,5 mm<sup>2</sup> 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.

**Beddind**

Polyethylene according to BS 6234

**Armour**

Galvanized steel wires according to BS 1442

**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**

10 times overall diameter

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**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