



# Caledonian

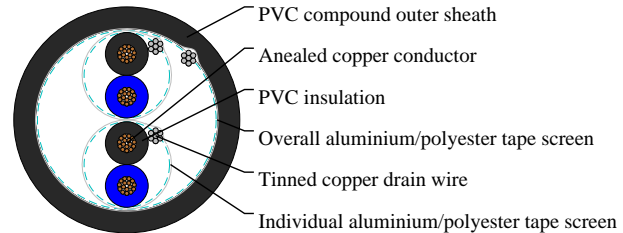
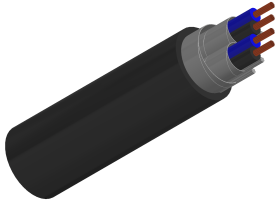
BS 5308 Instrumentation Cables

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## BS5308 Part 2 / Type 1 (Unarmoured Cables) PVC-IS-OS-PVC

RE-Y(St)Y PIMF 2P0.5



### APPLICATIONS

The unarmoured versions (Part 2 Type 1) are generally use for indoor installation and suitable for wet and damp areas. Generally used within industrial process manufacturing plants for communication, data and voice transmission signals and services, Also used for the interconnection of electrical equipment and instruments, typically in chemical or petrolchemical industry.

### CABLE CONSTRUCTION

Conductor: Annealed or tinned copper, multistranded (Class 5) to BS6360

Insulation: PVC (polyvinyl chloride), type T11 to BS 6746

Pairing: Two insulated conductors uniformly twisted together with a lay not exceeding 100mm

Individual screen: Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm<sup>2</sup>

Binder tape: PETP transparent tape

Collective screen: Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm<sup>2</sup>

Outer sheath: PVC Sheath, type TM 1 or type 6 to BS 6746

### COLOUR CODE

Insulation: See technical information

Outer Sheath: Black or blue

### PHYSICAL AND THERMAL PROPERTIES

Operating temperature:

-40°C up to + 70°C ( fixed installation)

0°C to +50°C (during operation )

Minimum bending radius:

5 x overall diameter

### Electrical Properties

Conductor Area Size: 0.5 mm<sup>2</sup>

Conductor Stranding (No. x mm): 16 x 0.2



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Conductor resistance(max):39.7 ohm/km

Insulation resistance(min):25 Mohm/km

Max. Mutual Capacitance(pair or adjacent cores):250 pF/m

Capacitance between any core or screen max.:400 pF/m

Max. L/R Ratio for adjacent cores(Inductance/Resistance):25  $\mu$ H/ohm

Test voltage:

Core to core:1000 V

Core to screen:1000V

Rated voltage max:300/500 V

### DIMENSION AND PARAMETERS

| No. of Pairs | Nominal Cross-sectional Area | No. and Dia. of Wires | Nominal Insulation Thickness | Nominal Sheath Thickness |
|--------------|------------------------------|-----------------------|------------------------------|--------------------------|
|              | mm <sup>2</sup>              | no./mm                | mm                           | mm                       |
| 2            | 0.5                          | 16/0.2                | 0.6                          | 1.1                      |