

# Caledonian

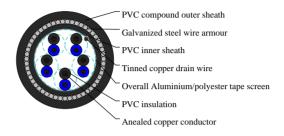
## PAS 5308 Instrumentation Cables

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## PAS 5308 Part 2 / Type 2 (Armoured Cables)

PVC-OS-SWA-PVC Stranded Conductor 5P0.5





#### **APPLICATIONS**

These cables are designed to connect electrical instrumentation and communication systems in and around process plants and similar applications. Generally used to transmit analogue or digital signals in measurement and process control where chemicals may be present. The armoured version are well adapted to underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).

#### **CABLE CONSTRUCTION**

Conductor: Annealed copper, mulitistranded (Class 5) to BS EN 60228

Insulation:PVC to BS EN 50290-2-21:2002,grade TI51

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

Binder tape: Non-hygroscopic binder tape of minimum thickness 0.023 mm

Collective screen:Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm²

Inner sheath: Extruded sheath of a PVC compound conforming to BS EN 50290-2-22:2002, grade TM51

Armour: Galvanized steel wire armour

Outer sheath: Extruded sheath of a PVC compound conforming to BS EN 50290-2-22:2002, grade TM51

#### **COLOUR CODE**

Insulation: See technical information
Outer Sheath: Generally black

#### PHYSICAL AND THERMAL PROPERTIES

Temperature range: above 0°C( fixed installation) -15°C to +65°C(during operation)

# **Electrical Properties**

Conductor Area Size:0.5 mm<sup>2</sup>
Conductor Stranding(No.xmm):16x0.2
Conductor resistance(max):39.7 ohm/km



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Insulation resistance(min):

Individual conductor:5 Gohm/km Individual screen:1 Mohm/km

Capacitance unbalance at 1kHz(pair to pair screen):250 pF/250m

Max. Mutual Capacitance @ 1kHz for Non OS or OS cables(except 1 pair and 2 pairs):75 pF/m

Max. Mutual Capacitance @ 1kHz IS/OS cables (include 1 pair and 2 pairs):115 pF/m

Max. L/R Ratio for adjacent cores(Inductance/Resistance):25 µH/ohm

Test voltage:2000 V Rated voltage:300/500 V

## **DIMENSION AND PARAMETERS**

No. of	Nominal	No. and	Nominal	Nominal	Diameter	Nominal	Nominal	Nominal	Nom.
Pairs	Cross-	Dia. of	Insulation	Inner	Over	Armour	Outer	Diameter	Overall
	sectional	Wires	Thickness	Sheath	Inner	Wire	Sheath	Over	Diameter
	Area			Thickness	Sheath	Diameter	Thickness	Armour	
	mm²	no./mm	mm	mm	mm	mm	mm	mm	mm
5	0.5	16/0.2	0.6	1	11.9	0.9	1.5	13.7	16.7