

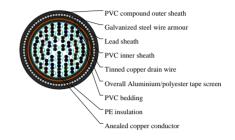
Caledonian

PAS 5308 Instrumentation Cables www.caledonian-cables.com marketing@caledonian-cables.com

PAS 5308 Part 1 / Type 3 (Lead Sheath Cables)

PE-OS-Lead-SWA-PVC Stranded Conductor 50P1.5





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. They are well adapted to underground use in industrial applications, in moist areas, where chemical and mechanical protections are needed. The lead sheath brings an enhanced resistance to aromatic hydrocarbons.

CABLE CONSTRUCTION

Conductor:Annealed copper, mulitistranded(Class 2) to BS EN 60228 Insulation:Thermoplastic PE to BS EN 50290-2-23:2002, grade L/MD or a cross-linked PE to BS EN 50290-2-29 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 Lead Sheath:Lead Alloy conforming to BS EN 50307 Bedding: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:1.5 mm²



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Conductor Stranding(No.xmm):7x0.53

Conductor resistance(max):12.3 ohm/km

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):85 pF/m

Max. Mutual Capacitance @ 1kHz IS/OS cables (include 1 pair and 2 pairs):120 pF/m

Max. L/R Ratio for adjacent cores(Inductance/Resistance):40 µH/ohm

Test voltage:2000 V

Rated voltage:300/500 V

DIMENSION AND PARAMETERS

No. of	Nominal	No.	Nomina	Nominal	Nominal	Lead	Nominal	Diametel	Diamete	Nominal	Nominal	Nominal	Nom.
Pairs	Cross-	and I	nsulatio	Bedding	Dia.	Sheath	Inner	Over	over	Armour	Outer I	Diamete	Overall
	sectiona	Dia. of	hickne	hicknes	over T	hicknes	Sheath	Inner	Lead	Wire	Sheath	Over I	Diameter
	Area	Wires			Bedding	Г	hicknes	Sheath	Sheathl	Diamete	hicknes	Armour	
	mm²	no./ mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	1.5	7/0.53	0.6	1.6	49.8	2	2	42.6	46.6	2.5	2.6	54.8	60