

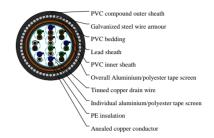
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PAS 5308 Instrumentation Cables www.caledonian-cables.com marketing@caledonian-cables.com

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

PE-IS-OS-Lead-SWA-PVC Stranded Conductor 10P2.5





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 individual screening of each pair limits the consequence of crosstalk. 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

Individual screen:Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm²

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)



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Electrical Properties

Conductor Area Size:2.5 mm² Conductor Stranding(No.xmm):7x0.67 Conductor resistance(max):7.6 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):105 pF/m Max. Mutual Capacitance @ 1kHz IS/OS cables (include 1 pair and 2 pairs):140 pF/m Max. L/R Ratio for adjacent cores(Inductance/Resistance):60 µH/ohm Test voltage:2000 V Rated voltage:300/500 V DIMENSION AND PARAMETERS

No. of Nominal No. NominalNominalNominal Lead NominaDiameteDiameteNominalNominalNominal Nom. Pairs Cross-Armour Outer Diamete Overall and InsulatiorBedding Dia. Sheath Inner Over over sectiona Dia. ofThicknesThicknes over Thicknes Sheath Inner Lead Wire Area Wires Bedding Thicknes Sheath SheathDiameteThicknes Armour

	mm²	no./ mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
10	2.5	7/0.53	0.6	1.2	31.3	1.5	1.5	25.9	28.9	2	2.1	35.3	39.5