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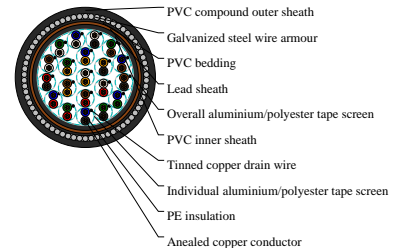
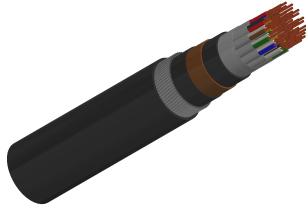
BS 5308 Instrumentation Cables

www.caledonian-cables.com

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BS 5308 Part 1 / Type 3 (Lead Sheath Cables) PE-IS-OS-Lead-SWA-PVC

RE-2Y(St)Y PIMF MYSWA Y 20P1.5



APPLICATIONS

The armoured versions (Part 1 Type 3) are generally used when the risk of mechanical damage is increased. The galvanised steel wire armour provides excellent protection. 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 petroleum industry. 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 or tinned copper, multistranded (Class 2) to BS6360

Insulation: PE (Polyethylene) type 03 to BS6234

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: 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, 0.5mm²

Inner Sheath: PVC (polyvinyl chloride), type TM 1 or type 6 to BS 6746

Lead Sheath: Lead Alloy

Bedding: PVC (polyvinyl chloride), TM 1 to BS 6746

Amour: Galvanized steel wire armour

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)



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Minimum bending radius:

15 x overall diameter

Electrical Properties

Conductor Area Size:1.5 mm²

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

Conductor resistance(max):12.3 ohm/km

Insulation resistance(min):5 Gohm/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 μ 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 Dia. over Bedding	Nominal Armour Wire Diameter
	mm ²	no./mm	mm	mm	mm
20	1.5	7/0.53	0.6	34.4	2