

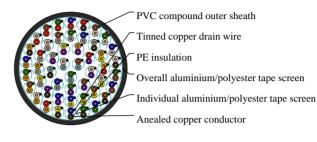
Caledonian

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

BS5308 Part 1 / Type 1 (unarmoured cables) PE-IS-OS-PVC

RE-2Y(St)Y PIMF 50P1





APPLICATIONS

The unarmoured versions (Part 1 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 petroleum industry.

CABLE CONSTRUCTION

Conductor:Annealed or tinned copper, solid(Class 1) 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 contactwith 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 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:1 mm² Conductor Stranding(No.xmm):1x1.13



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Conductor resistance(max):18.2 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):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 : 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
	mm²	no./mm	mm	mm
50	1	1/1.13	0.6	2.2