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BS 5308 Instrumentation Cables

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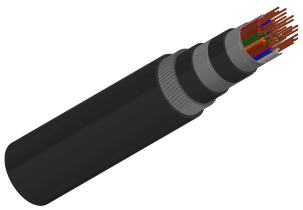
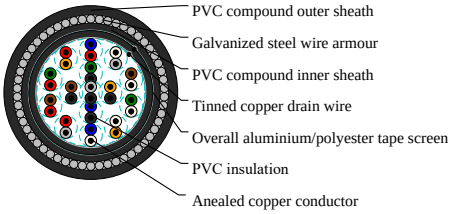
BS5308 Part 2 / Type 2 (Armoured Cables) PVC-OS-SWA-PVC

RE-Y(St)Y SWAY 15P0.5





APPLICATIONS

The armoured versions (Part 2 Type 2) 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 chemical or petrolchemical industry. The armored versions are generally use for outdoor installation for direct burial or installed in the duct and suitable for wet and damp areas.

CABLE CONSTRUCTION

Conductor:Annealed or tinned copper,mulitistranded(Class 5) to BS6360
Insulation:PVC (polyvinyl chloride), type TI1 to BS 6746
Pairing:Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
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 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)
Minimum bending radius:
6 x overall diameter

Electrical Properties

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Conductor Area Size:0.5 mm²
Conductor Stranding(No.xmm):16/0.2
Conductor resistance(max):39.7 ohm/km
Insulation resistance(min):25 Mohm/km
Max. Mutual Capacitance(pair or adjacent cores):250 pF/m
Capacitance between any core or screen max.:400 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 Bedding Thickness	Nominal Dia. over Bedding	Nominal Armour Wire Diameter	Nominal Outer Sheath Thickness
	mm²	no./mm	mm	mm	mm	mm	mm
15	0.5	16/0.2	0.6	1.3	19.2	1.6	1.7