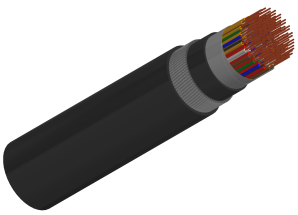
Caledonian

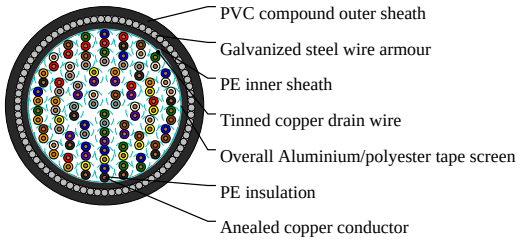
BS 5308 Instrumentation Cables

www.caledonian-cables.com marketing@caledonian-cables.com

BS 5308 Part 1 / Type 2 (Armoured Cables) PE-OS-SWA-PVC

RE-2Y(St)YSWAY 50P1





APPLICATIONS

The armoured versions (Part 1 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 petroleum 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, 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
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:PE (Polyethylene) type 2C or type 03 to BS6234
Amour:Galvanized steel wire armour
Outer sheath:PVC Sheath, type TM 1 to BS 6746

COLOUR CODE

Insulation colour code :See technical information
Sheath colour: 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

Conductor Area Size:1 mm²

Conductor Stranding(No.xmm):1x1.13
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 Inner Sheath Thickness	Diameter Over Inner Sheath	Nominal Armour Wire Diameter	Nominal Outer Sheath Thickness
	mm^2	no./mm	mm	mm	mm	mm	mm
50	1	1/1.13	0.6	2	36.6	2	2.2