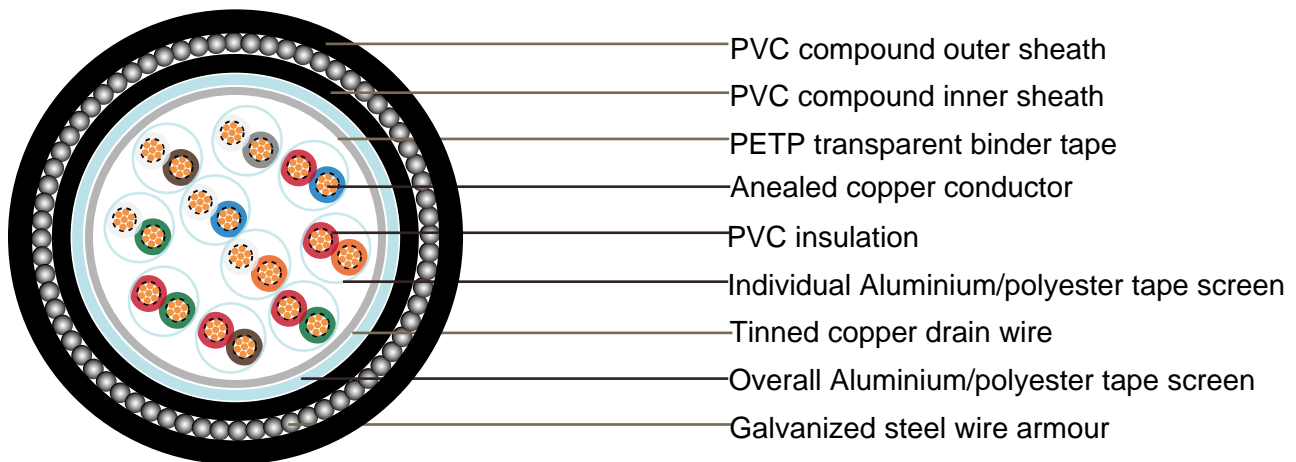




BS5308 Cable Part 2 Type 2 PVC-IS-OS-SWA-PVC/ RE-Y(St)Y PIMF SWAY

Application

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.



Construction

Conductor	Annealed or tinned copper, sizes: 0.5mm ² and 0.75mm ² multistranded(Class 5), 1.5mm ² multistranded(Class 2) to BS6360
Insulation	PVC (polyvinyl chloride),type T11 to BS 6746
Pairing	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
Colour code	Multipair cables:See technical information
Individual screen	Aluminium/polyester tape is applied over each pair metallic side down in contact with tinned copper drain wire, 0.5mm ²
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, 0.5mm ²
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
Sheath colour	Black or blue

Mechanical and Electrical 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

Conductor Area Size	mm ²	0.5	0.75	1.5
Conductor Stranding	No. x mm	16 x 0.2	24 x 0.2	7 x 0.53
Conductor resistance max	ohm/km	39.7	26.5	12.3
Insulation resistance min	Mohm/km	25	25	25
Max. Mutual Capacitance: pair or adjacent cores	pF/m	250	250	250
Capacitance between any core or screen max.	pF/m	400	400	400
Max. L/R Ratio for adjacent cores(Inductance/Resistance)	µH/ohm	25	25	40
Test voltage	Core to core	V	1000	1000
	Core to screen	V	1000	1000
Rated voltage max	V	300/500	300/500	300/500

Parameter

No.of pairs	No.and Dia. of Wires	Nominal Conductor Cross-Sectional Area	Nominal Thick-ness of Insulation	Nominal Thick-ness of bedding	Nominal Dia. over Bedding	Nominal Thick-ness of Armour	Nominal Thick-ness of Sheath	Nominal Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	mm	mm	mm	kg/km
2	16/0.2	0.5	0.6	0.8	10.6	0.9	1.3	15	505
5	16/0.2	0.5	0.6	1.1	14.3	0.9	1.5	19.1	830
10	16/0.2	0.5	0.6	1.2	19.1	1.25	1.6	24.8	1420
15	16/0.2	0.5	0.6	1.3	22.2	1.6	1.7	28.8	1570

Caledonian Instrumentation Cables



BS5308 Part 2

No. of pairs	No. and Dia. of Wires	Nominal Conductor Cross-Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of bedding	Nominal Dia. over Bedding	Nominal Thickness of Armour	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	mm	mm	mm	kg/km
20	16/0.2	0.5	0.6	1.3	25.3	1.6	1.8	32.1	2040
30	16/0.2	0.5	0.6	1.5	30.6	1.6	1.9	37.6	2610
50	16/0.2	0.5	0.6	1.7	38.9	2	2.1	47.1	4270
2	24/0.2	0.75	0.6	0.8	11.5	0.9	1.4	16.1	545
5	24/0.2	0.75	0.6	1.2	15.7	1.25	1.5	21.2	1005
10	24/0.2	0.75	0.6	1.3	20.9	1.6	1.7	27.5	1400
15	24/0.2	0.75	0.6	1.3	24.2	1.6	1.8	31	1750
20	24/0.2	0.75	0.6	1.5	27.9	1.6	1.8	34.7	2300
30	24/0.2	0.75	0.6	1.7	33.8	2	2	41.8	2460
50	24/0.2	0.75	0.6	2	43.1	2.5	2.3	52.7	4800
2	7/0.53	1.5	0.6	0.9	13	0.9	1.4	17.6	800
5	7/0.53	1.5	0.6	1.2	17.5	1.25	1.6	23.2	1290
10	7/0.53	1.5	0.6	1.3	23.5	1.6	1.8	30.3	1990
15	7/0.53	1.5	0.6	1.5	27.6	1.6	1.9	34.6	2590
20	7/0.53	1.5	0.6	1.5	31.3	1.6	2	38.5	3310
30	7/0.53	1.5	0.6	1.7	38	2	2.1	46.2	4380
50	7/0.53	1.5	0.6	2	48.5	2.5	2.4	58.3	6260