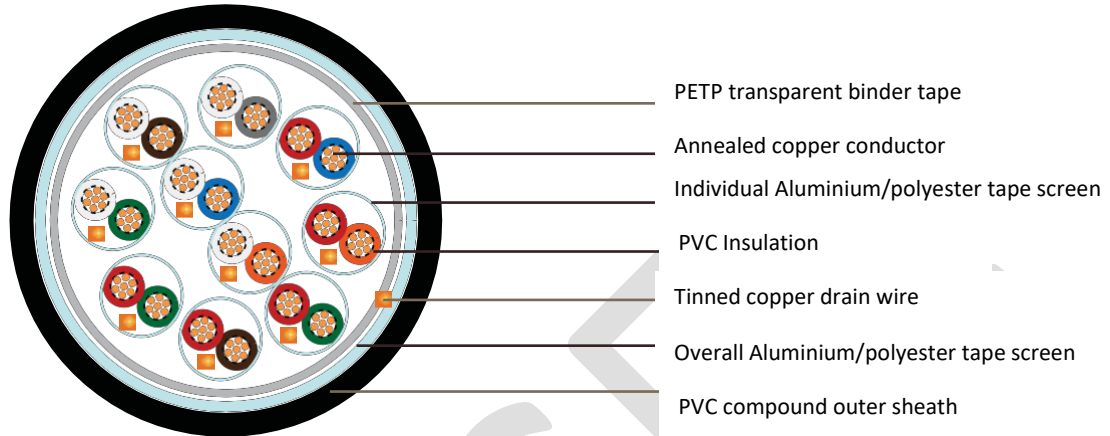


Instrumentation Cable Individual and Overall Screened Unarmoured Part 1 Type 1 PVC-IS-OS-PVC



APPLICATION

The unarmoured versions (Part 2 Type 1) are generally used 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 chemical or petrochemical industry.

CONSTRUCTION

Conductor

Annealed or tinned copper sizes:
0.5mm² and 0.75mm² multi stranded (Class 5), 1.5mm² multi stranded (Class 2) to KS- IEC 60228

Insulation

PVC (polyvinyl chloride), type T11 to BS 6746

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

Outer Sheath

PVC Sheath, type TM 1 or type 6 to BS 6746

STANDARDS

BS 5308

CORE IDENTIFICATION

As per BS 5308-1

Sheath colour

● Black or ● Blue



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Mechanical and Electrical 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

Conductor Area Size		Mm²	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	1000
	Core to screen	V	1000	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 Thickness of Insulation	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	kg/km
2	16/0.2	0.5	0.6	1.1	11.2	170
5	16/0.2	0.5	0.6	1.2	14.6	270
10	16/0.2	0.5	0.6	1.3	19.4	520
15	16/0.2	0.5	0.6	1.5	22.7	650
20	16/0.2	0.5	0.6	1.5	25.9	860
30	16/0.2	0.5	0.6	1.7	31.2	1130
50	16/0.2	0.5	0.6	2.2	40.1	1880
2	24/0.2	0.75	0.6	1.1	12.2	200
5	24/0.2	0.75	0.6	1.2	15.8	355
10	24/0.2	0.75	0.6	1.3	21.1	560
15	24/0.2	0.75	0.6	1.5	24.9	770
20	24/0.2	0.75	0.6	1.7	28.6	990
30	24/0.2	0.75	0.6	2	34.7	1380
50	24/0.2	0.75	0.6	2.2	43.9	2225
2	7/0.53	1.5	0.6	1.2	13.6	265
5	7/0.53	1.5	0.6	1.3	14.7	490
10	7/0.53	1.5	0.6	1.5	24.1	820
15	7/0.53	1.5	0.6	1.7	28.2	1110
20	7/0.53	1.5	0.6	1.7	31.9	1470
30	7/0.53	1.5	0.6	2	38.8	2070
50	7/0.53	1.5	0.6	2.2	49.1	3340



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PVC-IS-OS-PVC/RE-Y(St)Y PIMF

Cable Size	1 Pair		2 Pair		4 Pair	
0.50	CIPAUIP01050GY0>	50.00	CIPAUIP02050GY0>	80.00	CIPAUIP04050GY0>	153.00
0.75	CIPAUIP01075GY0>	63.00	CIPAUIP02075GY0>	102.00	CIPAUIP04075GY0>	194.00
1.00	CIPAUIP01100GY0>	77.00	CIPAUIP02100GY0>	129.00	CIPAUIP04100GY0>	243.00
1.50	CIPAUIP01150GY0>	96.00	CIPAUIP02150GY0>	163.00	CIPAUIP04150GY0>	313.00

Cable Size	6 Pair		10 Pair		15 Pair	
0.50	CIPAUIP06050GY0>	190.00	CIPAUIP10050GY0>	323.00	CIPAUIP15050GY0>	473.00
0.75	CIPAUIP06075GY0>	248.00	CIPAUIP10075GY0>	415.00	CIPAUIP15075GY0>	608.00
1.00	CIPAUIP06100GY0>	321.00	CIPAUIP10100GY0>	535.00	CIPAUIP15100GY0>	784.00
1.50	CIPAUIP06150GY0>	424.00	CIPAUIP10150GY0>	705.00	CIPAUIP15150GY0>	1,039.00

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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