

Instrumentation Cable Overall Screened Unarmoured Part 2 Type 1 PVC-OS-PVC

APPLICATION

The unarmoured versions (Part 2 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 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

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



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	

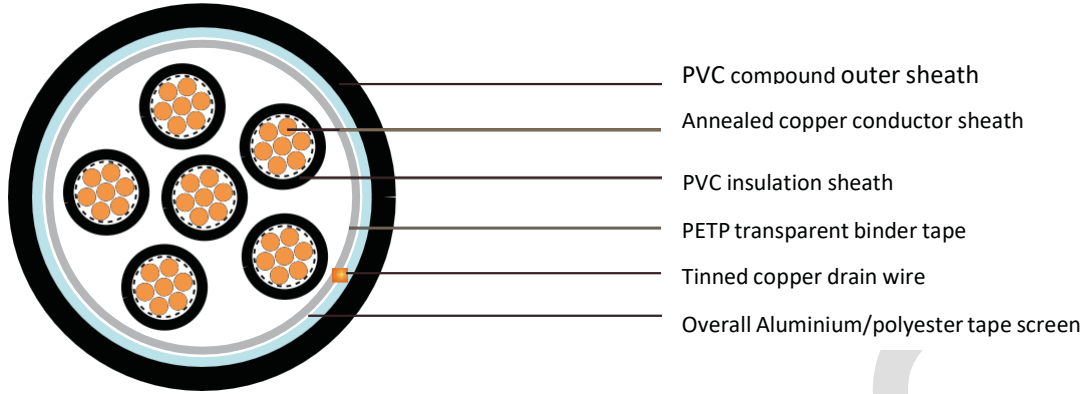
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Parameter

Multicore

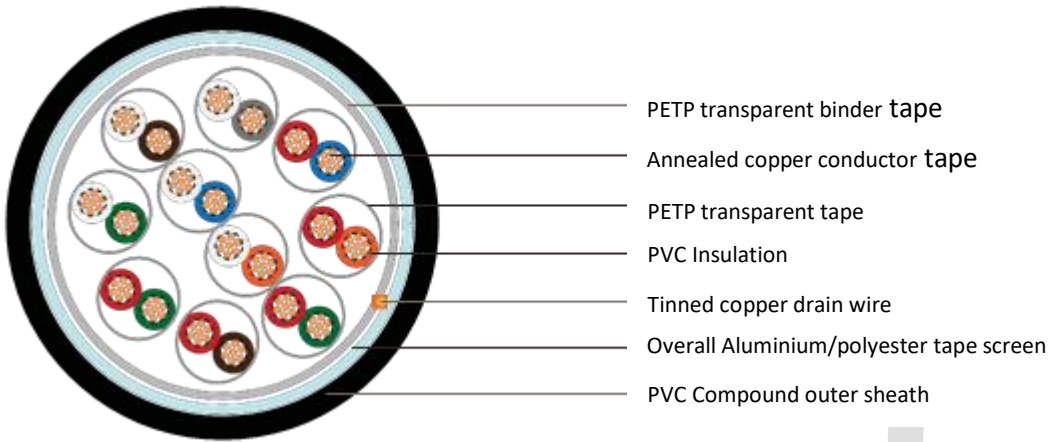


No. of Cores	No. and Dia. of Wires	Nominal Conductor Cross- Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	kg/km
2	16/0.2	0.5	0.6	0.8	6.2	60
3	16/0.2	0.5	0.6	0.8	6.6	75
4	16/0.2	0.5	0.6	0.8	7.2	80
6	16/0.2	0.5	0.6	0.9	8.6	110
10	16/0.2	0.5	0.6	1.1	11.2	180
20	16/0.2	0.5	0.6	1.2	14.2	310
40	16/0.2	0.5	0.6	1.3	18.7	570
80	16/0.2	0.50	0.60	1.50	26.50	1080
2	24/0.2	0.75	0.60	0.80	6.70	75
3	24/0.2	0.75	0.60	0.80	7.20	90
4	24/0.2	0.75	0.60	0.80	7.80	100
6	24/0.2	0.75	0.60	0.90	9.40	140
10	24/0.2	0.75	0.60	1.10	12.20	220
20	24/0.2	0.75	0.60	1.20	15.60	390
40	24/0.2	0.75	0.60	1.30	20.60	710
80	24/0.2	0.75	0.60	1.50	28.50	1350
2	7/0.53	1.50	0.60	0.80	8.00	105
3	7/0.53	1.50	0.60	0.90	8.20	135
4	7/0.53	1.50	0.60	0.90	9.00	150
6	7/0.53	1.50	0.60	1.10	11.00	205
10	7/0.53	1.50	0.60	1.20	14.00	330
20	7/0.53	1.50	0.60	1.30	17.90	580
40	7/0.53	1.50	0.60	1.50	24.00	1065
80	7/0.53	1.50	0.60	1.70	32.90	2025



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No. of Cores	No. and Dia. of Wires	Conductor Cross-Sectional Area	Thickness of Insulation	Thickness of Sheath	Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	kg/km
1	16/0.2	0.50	0.60	0.80	6.20	60
2	16/0.2	0.50	0.60	0.80	7.60	80
5	16/0.2	0.50	0.60	1.10	12.40	200
10	16/0.2	0.50	0.60	1.20	16.50	340
15	16/0.2	0.50	0.60	1.30	19.20	480
20	16/0.2	0.50	0.60	1.30	21.70	570
30	16/0.2	0.50	0.60	1.50	26.40	880
50	16/0.2	0.50	0.60	1.70	33.40	1310
1	24/0.2	0.75	0.60	0.80	6.70	75
2	24/0.2	0.75	0.60	0.80	8.20	100
5	24/0.2	0.75	0.60	1.20	13.80	250
10	24/0.2	0.75	0.60	1.30	18.40	450
15	24/0.2	0.75	0.60	1.30	21.10	600
20	24/0.2	0.75	0.60	1.50	24.40	800
30	24/0.2	0.75	0.60	1.70	29.50	1080
50	24/0.2	0.75	0.60	2.00	37.60	1860
1	7/0.53	1.50	0.60	0.80	7.50	100
2	7/0.53	1.50	0.60	0.90	9.30	150
5	7/0.53	1.50	0.60	1.20	15.60	360
10	7/0.53	1.50	0.60	1.30	20.90	670
15	7/0.53	1.50	0.60	1.50	24.60	970
20	7/0.53	1.50	0.60	1.50	27.80	1230
30	7/0.53	1.50	0.60	1.70	33.70	1730
50	7/0.53	1.50	0.60	2.00	43.00	2740



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

Cable Size	1 Pair		2 Pair		4 Pair	
0.50	CIPAUOP01050GY0>	38.00	CIPAUOP02050GY0>	56.00	CIPAUOP04050GY0>	94.00
0.75	CIPAUOP01075GY0>	52.00	CIPAUOP02075GY0>	79.00	CIPAUOP04075GY0>	135.00
1.00	CIPAUOP01100GY0>	66.00	CIPAUOP02100GY0>	105.00	CIPAUOP04100GY0>	185.00
1.50	CIPAUOP01150GY0>	84.00	CIPAUOP02150GY0>	140.00	CIPAUOP04150GY0>	254.00

Cable Size	6 Pair		10 Pair		15 Pair	
0.50	CIPAUOP06050GY0>	131.00	CIPAUOP10050GY0>	205.00	CIPAUOP15050GY0>	296.00
0.75	CIPAUOP06075GY0>	189.00	CIPAUOP10075GY0>	297.00	CIPAUOP15075GY0>	430.00
1.00	CIPAUOP06100GY0>	262.00	CIPAUOP10100GY0>	416.00	CIPAUOP15100GY0>	606.00
1.50	CIPAUOP06150GY0>	365.00	CIPAUOP10150GY0>	586.00	CIPAUOP15150GY0>	861.00

METSEC

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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