



BS5308 Cable Part 2 Type1 PVC-OS-PVC/

RE-Y(St)Y

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 petrolchemical industry.

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	Multicore cables: up to 40 cores yellow with black numbers, 41 - 80 cores black with yellow numbers. Multipair cables:See technical information
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
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)

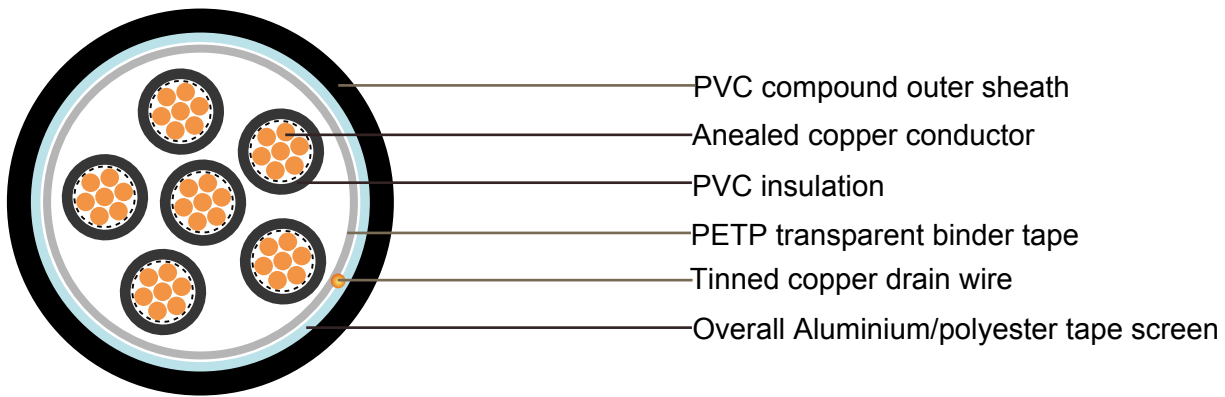
Minimum bending radius: 5 x overall diameter



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	1000
	Core to screen	V	1000	1000	1000
Rated voltage max	V	300/500	300/500	300/500	

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

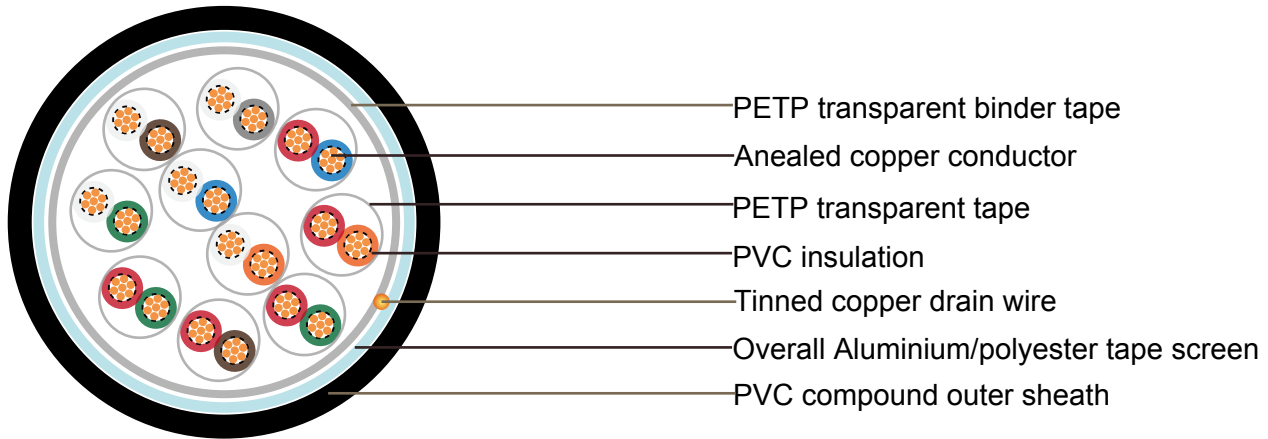


No. of Cores	No. and Dia. of Wires	Nominal Conductor Cross-Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
	no./mm	mm ²	mm	mm	mm	kg/km
80	16/0.2	0.5	0.6	1.5	26.5	1080
2	24/0.2	0.75	0.6	0.8	6.7	75
3	24/0.2	0.75	0.6	0.8	7.2	90
4	24/0.2	0.75	0.6	0.8	7.8	100
6	24/0.2	0.75	0.6	0.9	9.4	140
10	24/0.2	0.75	0.6	1.1	12.2	220
20	24/0.2	0.75	0.6	1.2	15.6	390
40	24/0.2	0.75	0.6	1.3	20.6	710
80	24/0.2	0.75	0.6	1.5	28.5	1350
2	7/0.53	1.5	0.6	0.8	8	105
3	7/0.53	1.5	0.6	0.9	8.2	135
4	7/0.53	1.5	0.6	0.9	9	150
6	7/0.53	1.5	0.6	1.1	11	205
10	7/0.53	1.5	0.6	1.2	14	330
20	7/0.53	1.5	0.6	1.3	17.9	580
40	7/0.53	1.5	0.6	1.5	24	1065
80	7/0.53	1.5	0.6	1.7	32.9	2025

* Multipair (the next page)



Multipair



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
1	16/0.2	0.5	0.6	0.8	6.2	60
2	16/0.2	0.5	0.6	0.8	7.6	80
5	16/0.2	0.5	0.6	1.1	12.4	200
10	16/0.2	0.5	0.6	1.2	16.5	340
15	16/0.2	0.5	0.6	1.3	19.2	480
20	16/0.2	0.5	0.6	1.3	21.7	570
30	16/0.2	0.5	0.6	1.5	26.4	880
50	16/0.2	0.5	0.6	1.7	33.4	1310
1	24/0.2	0.75	0.6	0.8	6.7	75
2	24/0.2	0.75	0.6	0.8	8.2	100
5	24/0.2	0.75	0.6	1.2	13.8	250
10	24/0.2	0.75	0.6	1.3	18.4	450
15	24/0.2	0.75	0.6	1.3	21.1	600
20	24/0.2	0.75	0.6	1.5	24.4	800
30	24/0.2	0.75	0.6	1.7	29.5	1080
50	24/0.2	0.75	0.6	2	37.6	1860
1	7/0.53	1.5	0.6	0.8	7.5	100
2	7/0.53	1.5	0.6	0.9	9.3	150
5	7/0.53	1.5	0.6	1.2	15.6	360
10	7/0.53	1.5	0.6	1.3	20.9	670
15	7/0.53	1.5	0.6	1.5	24.6	970
20	7/0.53	1.5	0.6	1.5	27.8	1230
30	7/0.53	1.5	0.6	1.7	33.7	1730
50	7/0.53	1.5	0.6	2	43	2740