

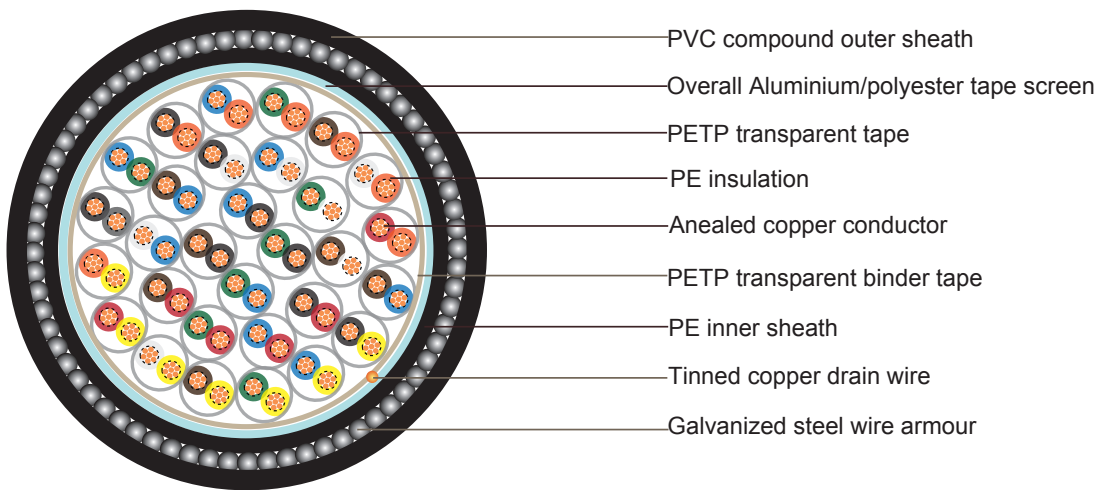


## BS5308 Cable Part 1 Type 2 PE-OS-SWA-PVC RE-2Y(St)2YSWAY

### Application

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.

### Construction



<b>Conductor</b>	Annealed or tinned copper, sizes: 0.5mm <sup>2</sup> and 0.75mm <sup>2</sup> multistranded(Class 5), 0.5 mm <sup>2</sup> , 1.0 mm <sup>2</sup> solid(Class 1), 1.5mm <sup>2</sup> or 2.5mm <sup>2</sup> , multistranded(Class 2) to BS6360
<b>Insulation</b>	PE (Polyethylene) type 03 to BS6234
<b>Pairing</b>	Two insulated conductors uniformly twisted together with a lay not exceeding 100mm
<b>Colour code</b>	See technical information
<b>Binder tape</b>	PETP transparent tape
<b>Collective screen</b>	Aluminium/polyester tape is applied over the laid up pairs metallic side down in contact with tinned copper drain wire, 0.5mm <sup>2</sup>
<b>Inner Sheath</b>	PE (Polyethylene) type 2C or type 03 to BS6234
<b>Amour</b>	Galvanized steel wire armour
<b>Outer sheath</b>	PVC Sheath, type TM 1 to BS 6746
<b>Sheath colour</b>	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

<b>Conductor Area Size</b>	mm <sup>2</sup>	0.5	0.5	0.75	1.0	1.5	
<b>Conductor Stranding</b>	No. x mm	1 x 0.8	16 x 0.2	24 x 0.2	1 x 1.13	7 x 0.53	
<b>Conductor resistance max</b>	ohm/km	36.8	39.7	26.5	18.2	12.3	
<b>Insulation resistance min</b>	Gohm/km	5	5	5	5	5	
<b>Capacitance unbalance at 1 kHz(pair to pair screen)</b>	pF/250m	250					
<b>Max. Mutual Capacitance @ 1 kHz for Non OS or OS cables (except one-pair and two-pairs)</b>	pF/m	115	115	115	115	120	
<b>Max. Mutual Capacitance @ 1 kHz IS/OS cables (include 1 pair and 2 pair)</b>	pF/m	75	75	75	75	85	
<b>Max. L/R Ratio for adjacent cores(Inductance/ Resistance)</b>	µH/ohm	25	25	25	25	40	
<b>Test voltage</b>	<b>Core to core</b>	V	1000	1000	1000	1000	1000
	<b>Core to screen</b>	V	1000	1000	1000	1000	1000
<b>Rated voltage max</b>	V	300/500	300/500	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 <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
1	1/0.8	0.5	0.5	0.8	5.5	0.9	1.3	9.9	200
2	1/0.8	0.5	0.5	0.8	6.8	0.9	1.3	11.2	260
5	1/0.8	0.5	0.5	1.1	10.9	0.9	1.4	15.5	460
10	1/0.8	0.5	0.5	1.2	14.4	1.25	1.6	20.1	790
15	1/0.8	0.5	0.5	1.2	16.5	1.25	1.6	22.2	1100
20	1/0.8	0.5	0.5	1.3	18.8	1.6	1.7	25.4	1280
30	1/0.8	0.5	0.5	1.3	22.3	1.6	1.8	29.1	1520
50	1/0.8	0.5	0.5	1.5	28.5	1.6	2	35.7	2100
1	16/0.2	0.5	0.6	0.8	6.2	0.9	1.3	10.6	250
2	16/0.2	0.5	0.6	0.8	7.6	0.9	1.3	12	300





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Any inquiries, please feel free to contact  
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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 <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
5	16/0.2	0.5	0.6	1.1	12.4	0.9	1.5	17.2	560
10	16/0.2	0.5	0.6	1.2	16.5	1.25	1.6	22.2	970
15	16/0.2	0.5	0.6	1.3	19.2	1.6	1.7	25.8	1240
20	16/0.2	0.5	0.6	1.3	21.7	1.6	1.8	28.5	1640
30	16/0.2	0.5	0.6	1.5	26.4	1.6	1.9	33.4	1770
50	16/0.2	0.5	0.6	1.7	33.4	2	2.1	41.6	2770
1	24/0.2	0.75	0.6	0.8	6.7	0.9	1.4	10.9	280
2	24/0.2	0.75	0.6	0.9	8.4	0.9	1.4	12.8	330
5	24/0.2	0.75	0.6	1.2	13.8	1.25	1.6	19.3	750
10	24/0.2	0.75	0.6	1.3	18.4	1.6	1.8	24.3	1260
15	24/0.2	0.75	0.6	1.3	21.1	1.6	1.9	27	1480
20	24/0.2	0.75	0.6	1.5	24.4	1.6	2	31.4	1890
30	24/0.2	0.75	0.6	1.7	29.5	2	2.1	37	2440
50	24/0.2	0.75	0.6	2	37.6	2.5	2.4	47.3	3210
1	1/1.13	1	0.6	0.8	6.6	0.9	1.3	11	290
2	1/1.13	1	0.6	0.8	8	0.9	1.4	12.6	345
5	1/1.13	1	0.6	1.2	13.5	1.25	1.5	19	790
10	1/1.13	1	0.6	1.2	17.7	1.25	1.7	23.6	1310
15	1/1.13	1	0.6	1.3	20.6	1.6	1.8	27.4	1740
20	1/1.13	1	0.6	1.5	23.8	1.6	1.8	30.6	2040
30	1/1.13	1	0.6	1.5	28.4	1.6	2	35.6	2180
50	1/1.13	1	0.6	2	36.6	2	2.2	45	3500
1	7/0.53	1.5	0.6	0.8	7.5	0.9	1.4	11.9	320
2	7/0.53	1.5	0.6	0.9	9.3	0.9	1.5	14.1	420
5	7/0.53	1.5	0.6	1.2	15.6	1.25	1.6	21.6	940
10	7/0.53	1.5	0.6	1.3	20.9	1.6	1.8	27.4	1500
15	7/0.53	1.5	0.6	1.5	24.6	1.6	1.9	31.2	1970
20	7/0.53	1.5	0.6	1.5	27.8	1.6	2	35.8	2400
30	7/0.53	1.5	0.6	1.7	33.7	2	2.2	42.3	3170
50	7/0.53	1.5	0.6	2	43	2.5	2.5	53.2	5020

