

**Description:** BS 5308 Part 1, Type 1, Individually Screened Pairs & Collective Aluminium Tape (ICAT), PVC Black Sheath.



### Construction

Conductor Material	: Plain Annealed Copper
Stranding	: 0.5mm <sup>2</sup> (16/0.2mm), 0.75mm <sup>2</sup> (24/0.2mm) 1.5mm <sup>2</sup> (7/0.53mm)
Insulation Material	: Polyethylene (PE)
Drain Wire	: Tinned Copper, 0.5mm <sup>2</sup> (16/0.2mm), Each Pair
Individual Screen	: Aluminium Foil, (100% Coverage) Each Pair
Drain Wire	: Tinned Copper, 0.5mm <sup>2</sup> (16/0.2mm)
Overall Screen	: Aluminium Foil (100% Coverage)
Sheath Material	: PVC, Black
Core Identification	: See Attached

### Electrical Characteristics

Conductor Size		0.5mm <sup>2</sup> (16/0.2)	0.75mm <sup>2</sup> (24/0.2)	1.5mm <sup>2</sup> (7/0.53)
Conductor Resistance @ 20°C		39.7 Ω/km	26.5 Ω/km	12.3 Ω/km
Insulation Resistance		5000 MΩ x km		
Mutual Capacitance @ 0.8 resp. 1 kHz	2 Pair & Above	115 pF/m	115 pF/m	120 pF/m
Capacitance Unbalance @ 1 kHz		250 pF/250m		
L/R Ratio		25 μH/Ω	25 μH/Ω	40 μH/Ω
Voltage Rating		300/500V		
Test Voltage		1000V		

### Physical Characteristics

Overall Diameter	: See Table
Bend Radius	: 6 x OD
Temperature Rating	: +70°C
Weight	: See Table

### Standards

RoHS3 Compliant	: Yes
Flame Retardant	: BS EN 60332-1-2
CE Compliant	: LVD (2014/35/EU),

Part No.	Pairs. x mm <sup>2</sup>	Weight kg/km	O/D mm*	Part No.	Pairs. x mm <sup>2</sup>	Weight kg/km	O/D mm*
5311105020	2 x 2 x 0.5	130	11.7	5311107100	10 x 2 x 0.75	530	22.6
5311105050	5 x 2 x 0.5	150	13.1	5311107200	20 x 2 x 0.75	900	29.7
5311105100	10 x 2 x 0.5	250	17.2	5311115020	2 x 2 x 1.5	190	14.6
5311105200	20 x 2 x 0.5	440	22.3	5311115050	5 x 2 x 1.5	370	18.5
5311107020	2 x 2 x 0.75	190	12.8	5311115100	10 x 2 x 1.5	630	26.4
5311107050	5 x 2 x 0.75	350	16.0	5311115200	20 x 2 x 1.5	1110	34.2

\*Outer diameters are for reference only and can vary between manufacturers, please check at time of order.

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## BS 5308 Part 1 Colour Code

Pair	A-Wire	B-Wire
1	Black	Blue
2	Black	Green
3	Blue	Green
4	Black	Brown
5	Blue	Brown
6	Green	Brown
7	Black	White
8	Blue	White
9	Green	White
10	Brown	White
11	Black	Red
12	Blue	Red
13	Green	Red
14	Brown	Red
15	White	Red
16	Black	Orange
17	Blue	Orange
18	Green	Orange
19	Brown	Orange
20	White	Orange

Please Note: Individually screened pairs can also be identified by a polyester tape over black & blue pairs.

Whilst commonly referred to as BS 5308 cables these cable types are now generally manufactured to the replacement standard PAS 5308

Shoal Group endeavours to ensure all information on the website, specification sheets and all other technical information is accurate. Actual cable dimensions may vary due to different manufacturer techniques, tolerances and production processes. If you have a specific requirement please specify this at time of enquiry.

The information is for guidance only and it is subject to change without notice or liability.