

**Description:** BS 5308 Part 1, Type 2, Individually Screened Pairs & Collective Aluminium Tape (ICAT), Steel Wire Armoured (SWA) Low Smoke Halogen Free (LSHF) Blue 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	: Cross-Linked Polyethylene (XLPE)
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)
Inner Sheath	: Low Smoke Halogen Free (LSHF), Black
Armour	: Galvanised Steel Wire Armour (SWA)
Sheath Material	: Low Smoke Halogen Free (LSHF), Blue
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 60332-3-22A
Smoke Emissions	: BS EN 61034-2
Halogen Emissions	: BS EN 60754-1&2
CE Compliant	: LVD (2014/35/EU), CPR (305/2011)
CPR Classification	: Eca (EN50575:2014+A1:2016)

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*
5312I05021H-E00	2 x 2 x 0.5	457	16.8	5312I07101H-E00	10 x 2 x 0.75	1630	29.5
5312I05051H-E00	5 x 2 x 0.5	757	20.9	5312I07201H-E00	20 x 2 x 0.75	2410	37.8
5312I05101H-E00	10 x 2 x 0.5	1293	27.9	5312I15021H-E00	2 x 2 x 1.5	737	20.4
5312I05201H-E00	20 x 2 x 0.5	2237	34.3	5312I15051H-E00	5 x 2 x 1.5	1187	25.4
5312I07021H-E00	2 x 2 x 0.75	500	17.6	5312I15101H-E00	10 x 2 x 1.5	1847	33.5
5312I07051H-E00	5 x 2 x 0.75	935	22.0	5312I15201H-E00	20 x 2 x 1.5	3053	42.6

\*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.