

Description: BS 5308 Part 1, Type 1, Individually Screened Pairs & Collective Aluminium Tape (ICAT), Low Smoke Halogen Free (LSHF) Black Sheath.



Construction

Conductor Material	: Plain Annealed Copper
Stranding	: 0.5mm ² (16/0.2mm) 0.75mm ² (24/0.2mm or 7/0.37mm) 1.5mm ² (7/0.53mm)
Insulation Material	: Cross-Linked Polyethylene (XLPE)
Drain Wire	: Tinned Copper, 0.5mm ² (16/0.2mm), Each Pair
Individual Screen	: Aluminium Foil, (100% Coverage) Each Pair
Drain Wire	: Tinned Copper, 0.5mm ² (16/0.2mm)
Overall Screen	: Aluminium Foil (100% Coverage)
Sheath Material	: Low Smoke Halogen Free (LSHF), Black
Core Identification	: See Attached

Electrical Characteristics

Conductor Size		0.5mm ²	0.75mm ²	1.5mm ²
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	: 7.5 x OD
Temperature Rating	: -30 +90°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	: Cca s1, d0, a1 (EN50575:2014+A1:2016)

Part No.	Pairs. x mm ²	Weight kg/km	O/D mm*	Part No.	Pairs. x mm ²	Weight kg/km	O/D mm*
5311I05020H-C22	2 x 2 x 0.5	90	10.1	5311I07100H-C22	10 x 2 x 0.75	385	20.3
5311I05050H-C22	5 x 2 x 0.5	172	13.2	5311I07200H-C22	20 x 2 x 0.75	720	26.70
5311I05100H-C22	10 x 2 x 0.5	323	18.8	5311I15020H-C22	2 x 2 x 1.5	155	12.70
5311I05200H-C22	20 x 2 x 0.5	590	24.6	5311I15050H-C22	5 x 2 x 1.5	310	16.7
5311I07020H-C22	2 x 2 x 0.75	105	10.8	5311I15100H-C22	10 x 2 x 1.5	610	24
5311I07050H-C22	5 x 2 x 0.75	205	14.2	5311I15200H-C22	20 x 2 x 1.5	1130	31.4

*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.