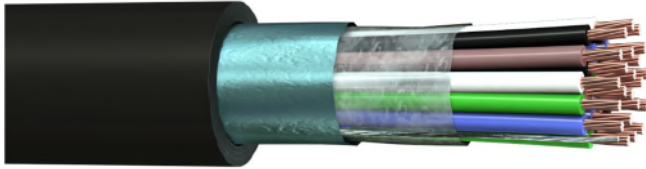


**Description:** BS 5308 Part 1, Type 1, Collective Aluminium Tape (CAT), Low Smoke Halogen Free (LSHF) Black Sheath.



### Construction

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

### Electrical Characteristics

Conductor Size		0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1.5mm <sup>2</sup>
Conductor Resistance @ 20°C		39.7 Ω/km	26.5 Ω/km	12.3 Ω/km
Insulation Resistance		< 1000 MΩ x km		
Mutual Capacitance @ 0.8 resp. 1 kHz	1 & 2 Pair/1 Quad	115 pF/m	115 pF/m	120 pF/m
	5 Pair & Above	75 pF/m	75 pF/m	85 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		2000V		

### 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 <sup>2</sup>	Weight kg/km	O/D mm	Part No.	Pairs. x mm <sup>2</sup>	Weight kg/km	O/D mm
5311O05010H-C22	1 x 2 x 0.5	41.5	6.0	5311O07050H-C22	5 x 2 x 0.75	170	12.7
5311O05010QH-C22	1 x 4 x 0.5	60	6.9	5311O07100H-C22	10 x 2 x 0.75	305	17.7
5311O05020H-C22	2 x 2 x 0.5	60	6.9	5311O07200H-C22	20 x 2 x 0.75	570	23.3
5311O05050H-C22	5 x 2 x 0.5	140	11.8	5311O15010H-C22	1 x 2 x 1.5	70	7.3
5311O05100H-C22	10 x 2 x 0.5	245	16.4	5311O15010QH-C22	1 x 4 x 1.5	115	8.7
5311O05200H-C22	20 x 2 x 0.5	430	21.20	5311O15020H-C22	2 x 2 x 1.5	115	8.7
5311O07010H-C22	1 x 2 x 0.75	48	6.4	5311O15050H-C22	5 x 2 x 1.5	275	14.9
5311O07010QH-C22	1 x 4 x 0.75	72	7.4	5311O15100H-C22	10 x 2 x 1.5	510	20.8
				5311O15200H-C22	20 x 2 x 1.5	950	31.6

**Description:** BS 5308 Part 1, Type 1, Collective Aluminium Tape (CAT), Low Smoke Halogen Free (LSHF) Black Sheath.

### 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

Cables may be supplied with Black & White numbered pairs, if the colour code is critical please specify at time of enquiry/order.