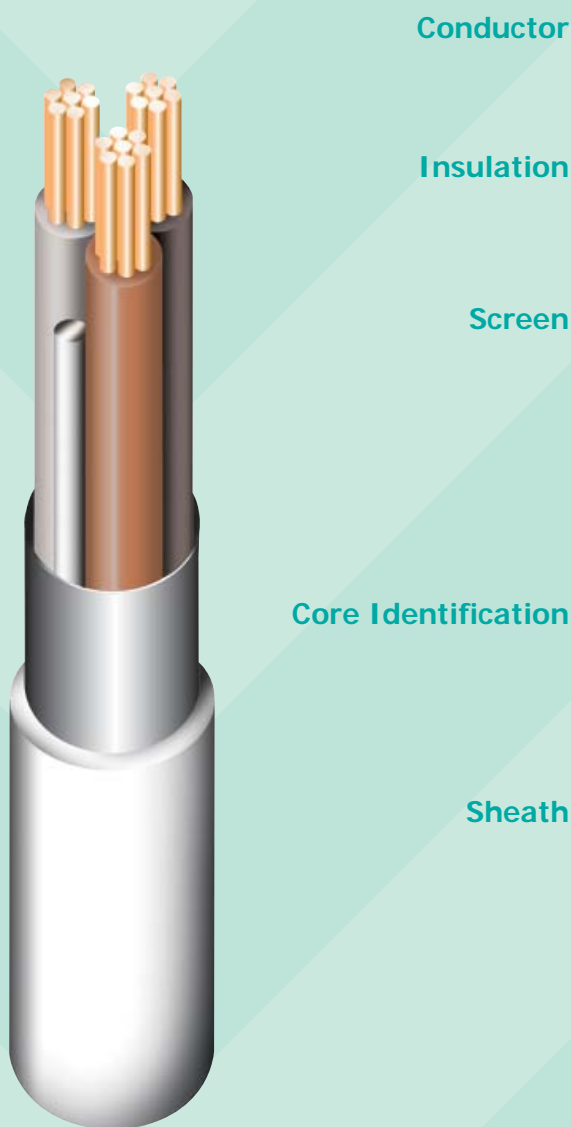


Afumex Wiring Cables

Low Voltage (600/1000 V)

Afumex[®] LSX[™] Screened Wiring Cables



> Plain annealed copper stranded (class 2) conductor. The CPC for 1.0mm² and 1.5mm² is a solid (class 1) conductor

> 90°C cross linked XLPE insulation

> Laminated aluminium tape screen bonded to sheath and in contact with full size tinned annealed copper circuit protective conductor for 2, 3 & 4 core cables and 0.5mm² drain wire for multicore cables which provides automatic screen earthing

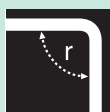
●● brown-blue
 ●● brown-black-grey
 ●● blue-brown-black-grey

> Robust thermoplastic Afumex sheath

> Colour - White. Other colours are available to special order



Temperature Range
-25 to +90°C



Bending Radius
Circular conductor $r=6D$



Mechanical Impact
Medium



Fire Performance
BSEN60332-1-2
BSEN50266-2-4



Flexibility
Rigid



Halogen Free
BSEN50267-2-1
BSEN50267-2-3



Low Smoke Emissions
BSEN50268-2

Afumex® LSX™ Screened Wiring Cables

Cable Details

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Max conductor resistance at 20°C	Current rating DC or single phase AC enclosed	Current rating DC or single phase AC clipped direct	Current rating DC or single phase AC perforated tray	Current rating three phase AC clipped direct	Current rating three phase AC perforated tray	Volt drop DC or single phase AC	Volt drop three phase AC
mm²	mm	kg/km	ohms/km	Amps	Amps	Amps	Amps	Amps	mV/A/m	mV/A/m

Two Core

1.0	8.9	88	18.1	17	19	21	-	-	46	-
1.5	9.4	104	12.1	22	24	26	-	-	31	-
2.5	10.4	138	7.41	30	33	36	-	-	19	-
4.0	11.6	190	4.61	40	45	49	-	-	12	-

Three Core

1.0	9.4	105	18.1	17	19	21	17	18	46	40
1.5	10.1	128	12.1	22	24	26	22	23	31	27
2.5	11.1	172	7.41	30	33	36	30	32	19	16

Four Core

1.0	10.1	122	18.1	17	19	21	17	18	46	40
1.5	11.1	153	12.1	22	24	26	22	23	31	27
2.5	11.6	204	7.41	30	33	36	30	32	19	16
4.0	13.4	288	4.61	40	45	49	40	42	12	10

Seven Core†

1.5	11.5	220	12.1	22*	24*	26	-	-	31	-
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†Details of other multicore designs are available upon request.

*The tabulated rating is as a two core cable and may be used where the number of cores carrying current does not exceed the square root of the total number of cores.

Installation methods for current rating in accordance with BS7671/IEE Wiring Regulations.

The tabulated ratings are based upon a 30°C ambient temperature and 90°C operating temperature. For other ambient temperatures or where cables are grouped together, the appropriate rating factors should be applied.

Temperature Rating Factors

Ambient Temperature °C	25	30	35	40	45	50	55	60
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Correction factors for Groupings (Free Air Touching)

Number of circuits	2	3	4	5	6	7	8	9
Rating Factor	0.86	0.82	0.80	0.79	0.78	0.78	0.78	0.77