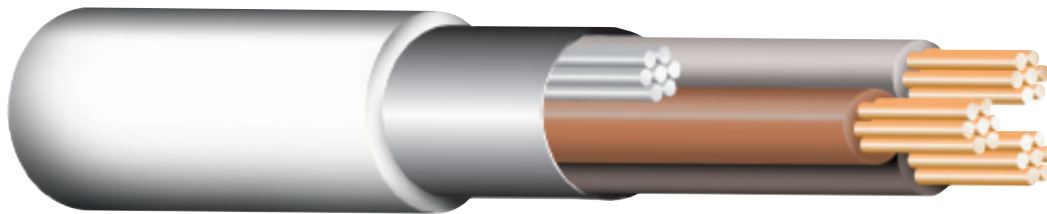


Afumex LSX™

LOW SMOKE ZERO HALOGEN SCREENED WIRING CABLE (300/500 V)



CABLE DESCRIPTION

Conductor

Plain annealed copper. 1.5 - 4.0 mm² stranded circular conductors to meet the requirements of BS EN 60228 class 2.

Insulation

Cross linked XLPE insulation complying with BS 7655 Type GP8

Overall metallic screen and CPC

Polyester backed laminated aluminium tape bonded to outer sheath to provide overall screen. In contact with full sized, tinned annealed copper circuit protective conductor and laid-up with the cores to provide automatic screen earthing.

Sheath

Robust thermoplastic low smoke, zero halogen and reduced flame propagation outer sheath. Standard colour white with bespoke colours available to special order. Suitable for outdoor installation with exposure to normal daylight UV.

Key Applications

- > Low voltage circuits typically lighting and power distribution, in buildings
- > Suitable for clipped, surface, tray and void installation
- > Low smoke, zero halogen and flame retardant
- > Ideal for all non-emergency circuits in public buildings
- > Fully screened design provides EMC protection for signal clarity

British Standards, Tests & Approvals

- > BS 8436 - Low smoke zero halogen cables for use in walls, partitions and building voids.
- > Smoke performance BS EN 61034-2
- > Halogen performance BS EN 60754-1
- > Flame retardant performance BS EN 60332-1-2

Core identification

Harmonised - standard

- ○ brown-blue
- ○ ○ brown-black-grey
- ○ ○ ○ blue-brown-black-grey



Temperature Range
-20 to +70C



Bending Radius
r=6D



Mechanical Impact
Medium



Fire Performance
BS EN 60332-1-2



Flexibility
Rigid



Halogen Free
BS EN 60754-1



Low Smoke Emissions
BS EN 61034-2

Nominal cross sectional area	Conductor construction	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 Amps	Current rating, DC or single phase AC perforated tray Amps	Volt drop single phase AC
mm ²	mm	mm	kg/km	Ω/km	Amps			mV/A/m

Two Core

1.5	7/0.53	9.9	110	12.1	16.5	19.5	22	29
2.5	7/0.67	10.4	150	7.41	23	27	30	18
4.0	7/0.85	12.1	200	4.61	30	36	40	11

Three Core

1.5	7/0.53	10.2	135	12.1	16.5	19.5	22	29
2.5	7/0.67	11.1	180	7.41	23	27	30	18
4.0	7/0.85	12.3	245	4.61	30	36	40	11

Four Core

1.5	7/0.53	11.1	160	12.1	16.5	19.5	22	29
2.5	7/0.67	12.3	220	7.41	23	27	30	18
4.0	7/0.85	14.3	305	4.61	30	36	40	11

Notes to table

- > Recommended clip spacing 300 mm horizontal and 400 mm vertical.
- > Minimum recommended installation temperature 0°C. Installation methods for current rating in accordance with BS7671/IET Wiring Regulations.
- > The tabulated ratings are based upon a 30°C ambient temperature and 70°C operating temperature. For other ambient temperatures or where cables are grouped together, appropriate rating factors should be applied.
- > De-rate by factor 0.8 when 4 cores are loaded.
- > When this cable is used to comply with BS 7671: 2018, clause 522.6.204(i), current rating and protective device limitations shall comply with the requirements of BS 8436.

Correction factors for Ambient temperatures: Table 4B1

Ambient Temperature°C	25	30	35	40	45	50
Rating factor	1.03	1.00	0.94	0.87	0.79	0.71

Correction factors for grouping of cables: Table 4C1

Number of cables	2	3	4	5	6	7
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54

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For further information please see our dedicated website: www.whyprysmian.co.uk



Should you have any concerns about unsafe, non-approved or counterfeit cable, please contact the ACI

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Email: report@aci.org.uk