

LSX®

LSOH® Screened Wiring Cable. BS 8436. 300/500 V



Prysmian LSX® is a Low Smoke, Zero Halogen (LSOH®) and flame retardant cable developed to address specific needs of the modern building services and systems

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.

FEATURES AND BENEFITS

- Fully screened
- Low Smoke, Zero Halogen (LSOH®)
- Manufactured under ISO 9001 Quality management systems

ADDITIONAL TECHNICAL SUPPORT

- [FAQ's](https://uk.prysmian.com/technical-area/faqs) - uk.prysmian.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmian.com) - tech.info@prysmian.com
- [Live Chat](https://uk.prysmian.com/technical-area) - uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

STANDARDS



BS 8436
BS EN 60332-1-2
BS EN 61034-2
BS EN 60754-1

Construction Standard
Flame Propagation - Single Cable
Smoke emission
Corrosive and acid gas

CONSTRUCTION

| | |
|--------------------------|------------------------|
| Conductor material | Copper |
| Conductor surface | Bare |
| Core insulation material | XLPE |
| Screen construction | Metallised foil |
| Screen | Yes |
| Screen material | Aluminium |
| Material outer sheath | Low smoke zero halogen |
| Cable shape | Round |

APPLICATIONS PROPERTIES

| | |
|------------------------------------|------------------------------------|
| Nominal voltage U ₀ [V] | 300 |
| Nominal voltage U [V] | 500 |
| Flame retardant | In accordance with BS EN 60332-1-2 |
| Halogen free | Yes |
| Low smoke | Yes |
| Max. conductor temperature [°C] | 70 |
| Min. Operation temperature [°C] | -15 |
| UV resistant | Yes |
| Min. Installation temperature [°C] | 0 |
| Max. Installation temperature [°C] | 60 |
| Bending radius (rule) | 6D |

COLOURS

Insulation: Two Cores: Brown, Blue;
Three Cores: Brown, Black, Grey;
Four Cores: Blue, Brown, Black, Grey;
Sheath: White

CURRENT RATINGS

Refer to table 4D2 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: 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.

TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm²] | Conductor category | Colour outer sheath | Nominal cross section of protective conductor [mm²] | Nominal outer diameter [mm] | Cable weight [kg/km] | Conductor resistance at 20° C [Ohm/km] | Embodied Carbon [CO2e kg/km] |
|-----------------|---------------------------------------|--------------------|---------------------|---|-----------------------------|----------------------|--|------------------------------|
| 2 | 1.5 | Class 2 = stranded | White | 1.5 | 9.9 | 110 | 12.1 | 591 |
| 2 | 2.5 | Class 2 = stranded | White | 2.5 | 10.4 | 150 | 7.41 | 759 |
| 2 | 4 | Class 2 = stranded | White | 4 | 12.1 | 200 | 4.61 | 981 |
| 3 | 1.5 | Class 2 = stranded | White | 1.5 | 10.2 | 135 | 12.1 | 732 |
| 3 | 2.5 | Class 2 = stranded | White | 2.5 | 11.1 | 180 | 7.41 | 886 |
| 3 | 4 | Class 2 = stranded | White | 4 | 12.3 | 245 | 4.61 | 1,156 |
| 4 | 1.5 | Class 2 = stranded | White | 1.5 | 11.1 | 160 | 12.1 | 841 |
| 4 | 2.5 | Class 2 = stranded | White | 2.5 | 12.3 | 220 | 7.41 | 1,037 |
| 4 | 4 | Class 2 = stranded | White | 4 | 14.3 | 305 | 4.61 | 1,373 |

*The embodied carbon figure is taken from a single product in the range, for more information on how we calculate our embodied carbon figure visit here: <https://uk.prysmiangroup.com/embodied-carbon>