

6491B

LSOH® Single Core Conduit Wire. BS EN 50525-3-41. 450/750 V



Prysmian 6491B is a single core, low voltage Low Smoke, Zero Halogen (LSOH®) wiring cable designed for installation within conduit, trunking or inside fixed protected environments

KEY APPLICATIONS

Installation in surface mounted or embedded conduits, or similar closed systems and for fixed protected installation in or on lighting fittings and inside appliances, switch gear and control gear particularly for situations in which low emissions of smoke and acid gas is required. Green/Yellow for use as earth can be installed without mechanical protection.

FEATURES AND BENEFITS

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

STANDARDS



BS EN 50525-3-41

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

Low smoke zero halogen

APPLICATIONS PROPERTIES

| | |
|------------------------------------|------------------------------------|
| Nominal voltage U ₀ [V] | 450 |
| Nominal voltage U [V] | 750 |
| Flame retardant | In accordance with BS EN 60332-1-2 |
| Halogen free | Yes |
| Low smoke | Yes |
| Max. conductor temperature [°C] | 90 |
| Min. Operation temperature [°C] | -25 |
| Min. Installation temperature [°C] | 0 |
| Max. Installation temperature [°C] | 80 |
| Bending radius (rule) | 6D |

COLOURS

A range of insulation colours are available, including green/yellow

CURRENT RATINGS

Refer to table 4E1 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

CONTACT INFORMATION

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TECHNICAL DATA

| Nominal cross section conductor [mm ²] | Conductor category | Nominal thickness insulation [mm] | Nominal outer diameter [mm] | Cable weight [kg/km] | Conductor resistance at 20° C [Ohm/km] |
|--|--------------------|-----------------------------------|-----------------------------|----------------------|--|
| 1.5 | Class 2 = stranded | 0.7 | 3 | 22 | 12.1 |
| 2.5 | Class 2 = stranded | 0.8 | 3.7 | 33 | 7.41 |
| 4 | Class 2 = stranded | 0.8 | 4.2 | 48 | 4.61 |
| 6 | Class 2 = stranded | 0.8 | 4.8 | 68 | 3.08 |
| 10 | Class 2 = stranded | 1 | 6.3 | 120 | 1.83 |
| 16 | Class 2 = stranded | 1 | 6.9 | 175 | 1.15 |
| 25 | Class 2 = stranded | 1.2 | 8.4 | 260 | 0.727 |
| 35 | Class 2 = stranded | 1.2 | 9.5 | 350 | 0.524 |
| 50 | Class 2 = stranded | 1.4 | 11.2 | 475 | 0.387 |
| 70 | Class 2 = stranded | 1.4 | 12.8 | 670 | 0.268 |
| 95 | Class 2 = stranded | 1.6 | 15.2 | 940 | 0.193 |
| 120 | Class 2 = stranded | 1.6 | 16.5 | 1,200 | 0.153 |
| 150 | Class 2 = stranded | 1.8 | 18.4 | 1,450 | 0.124 |
| 185 | Class 2 = stranded | 2 | 21 | 1,800 | 0.0991 |
| 240 | Class 2 = stranded | 2.2 | 24 | 2,400 | 0.0754 |
| 300 | Class 2 = stranded | 2.4 | 26 | 3,000 | 0.0601 |
| 400 | Class 2 = stranded | 2.6 | 30 | 3,800 | 0.047 |
| 500 | Class 2 = stranded | 2.8 | 34 | 4,900 | 0.0366 |
| 630 | Class 2 = stranded | 2.8 | 37 | 6,100 | 0.0283 |