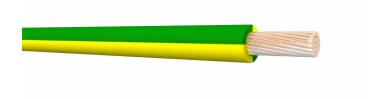


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# 6491B

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
Conductor surface
Core insulation material

Copper

Low smoke zero halogen

Uncontrolled when printed Property of Prysmian Group UK



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### **APPLICATIONS PROPERTIES**

Nominal voltage U0 [V] 450 Nominal voltage U [V] 750 In accordance with BS EN 60332-1-2 Flame retardant 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

### **COLOURS**

Bending radius (rule)

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

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#### **CONTACT INFORMATION**

Prysmian Cables & Systems Limited, Chickenhall Lane, Eastleigh, Hampshire, SO50 6YU, United Kingdom uk.prysmiangroup.com

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## **TECHNICAL DATA**

Nominal cross section conductor [mm²]	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