# **Prysmian**

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# 6491B (H07Z-R)

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

#### ADDITIONAL TECHNICAL SUPPORT

- FAQ's- uk.prysmiangroup.com/technical-area/faqs
- <u>Technical email</u> tech.info@prysmiangroup.com
- Live Chat uk.prysmiangroup.com/technical-area
- Technical hotline: 02380 295222

# **STANDARDS**



BS EN 50525-3-41 BS EN 60332-1-2 BS EN 61034-2 BS EN 60754-1

## **CONSTRUCTION**

Conductor material Conductor surface Core insulation material Construction Standard Flame Propagation - Single Cable Smoke emission Corrosive and acid gas

Copper Bare Low smoke zero halogen

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#### **APPLICATIONS PROPERTIES**

Nominal voltage U0 [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		
UV resistant	Yes		
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

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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]	Embodied Carbon [CO2e kg/km]
1.5	Class 2 = stranded	0.7	3	22	12.1	124
2.5	Class 2 = stranded	0.8	3.7	33	7.41	194
4	Class 2 = stranded	0.8	4.2	48	4.61	298
6	Class 2 = stranded	0.8	4.8	68	3.08	439
10	Class 2 = stranded	1	6.3	120	1.83	740
16	Class 2 = stranded	1	6.9	175	1.15	1,145
25	Class 2 = stranded	1.2	8.4	260	0.727	1,828
35	Class 2 = stranded	1.2	9.5	350	0.524	2,487
50	Class 2 = stranded	1.4	11.2	475	0.387	3,384
70	Class 2 = stranded	1.4	12.8	670	0.268	4,825
95	Class 2 = stranded	1.6	15.2	940	0.193	6,740
120	Class 2 = stranded	1.6	16.5	1,200	0.153	8,424
150	Class 2 = stranded	1.8	18.4	1,450	0.124	10,410
185	Class 2 = stranded	2	21	1,800	0.0991	13,065
240	Class 2 = stranded	2.2	24	2,400	0.0754	17,140
300	Class 2 = stranded	2.4	26	3,000	0.0601	21,639
400	Class 2 = stranded	2.6	30	3,800	0.047	27,054
500	Class 2 = stranded	2.8	34	4,900	0.0366	34,538
630	Class 2 = stranded	2.8	37	6,100	0.0283	44,471

\*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: <a href="https://uk.prysmiangroup.com/embodied-carbon">https://uk.prysmiangroup.com/embodied-carbon</a>