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.prysmian.com/technical-area/faqs
- Technical email - tech.info@prysmian.com
- Live Chat - uk.prysmian.com/technical-area
- Technical hotline: 02380 295222

STANDARDS

BS EN 50525-3-41	Construction Standard
BS EN 60332-1-2	Flame Propagation - Single Cable
BS EN 61034-2	Smoke emission
BS EN 60754-1	Corrosive and acid gas

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Low smoke zero halogen

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

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
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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

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]
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:https://uk.prysmiangroup.com/embodied-carbon