6491X (H07V-U / H07V-R)

PVC Single Core Conduit Wire. BS EN 50525-2-31. 450/750 V

Prysmian 6491X is a single core, low voltage 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.

Green/Yellow for use as earth can be installed without mechanical protection.

FEATURES AND BENEFITS

- 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 50525-2-31	Construction Standard
BS EN 60332-1-2	Flame Propagation - Single Cable

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyvinyl chloride (PVC)

APPLICATIONS PROPERTIES

Nominal voltage U0 [V]	450
Nominal voltage U [V]	750
Flame retardant	In accordance with BS EN 60332-1-2
Max. conductor temperature [°C]	70
Min. Operation temperature [°C]	-15
Min. Installation temperature [°C]	0
Max. Installation temperature [°C]	60
Bending radius (rule)	6D

COLOURS

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

CURRENT RATINGS

Refer to table 4D1 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

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	21	12.1	70
2.5	Class 2 = stranded	0.8	3.6	32	7.41	96
4	Class 2 = stranded	0.8	4.2	47	4.61	118
6	Class 2 = stranded	0.8	4.7	67	3.08	169
10	Class 2 = stranded	1	6.3	120	1.83	314
16	Class 2 = stranded	1	6.9	170	1.15	449
25	Class 2 = stranded	1.2	8.3	255	0.727	703
35	Class 2 = stranded	1.2	9.3	345	0.524	919
50	Class 2 = stranded	1.4	11.2	480	0.387	1,256
70	Class 2 = stranded	1.4	12.8	670	0.268	1,726
95	Class 2 = stranded	1.6	14.8	930	0.193	2,368
120	Class 2 = stranded	1.6	16.1	1,150	0.153	2,910
150	Class 2 = stranded	1.8	18	1,450	0.124	3,589
185	Class 2 = stranded	2	21	1,800	0.0991	4,499
240	Class 2 = stranded	2.2	23	2,400	0.0754	5,870
300	Class 2 = stranded	2.4	26	3,000	0.0601	7,392
400	Class 2 = stranded	2.6	30	3,800	0.047	9,419
500	Class 2 = stranded	2.8	33	4,900	0.0366	12,082
630	Class 2 = stranded	2.8	36	6,100	0.0283	15,308

*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