

6491X

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](https://uk.prysmiangroup.com/technical-area/faqs) - uk.prysmiangroup.com/technical-area/faqs
- [Technical email](mailto:tech.info@prysmiangroup.com) - tech.info@prysmiangroup.com
- [Live Chat](https://uk.prysmiangroup.com/technical-area) - uk.prysmiangroup.com/technical-area
- Technical hotline: 02380 295222

STANDARDS



BS EN 50525-2-31
BS EN 60332-1-2

Construction Standard
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	128
2.5	Class 2 = stranded	0.8	3.6	32	7.41	198
4	Class 2 = stranded	0.8	4.2	47	4.61	292
6	Class 2 = stranded	0.8	4.7	67	3.08	432
10	Class 2 = stranded	1	6.3	120	1.83	740
16	Class 2 = stranded	1	6.9	170	1.15	1,145
25	Class 2 = stranded	1.2	8.3	255	0.727	1,778
35	Class 2 = stranded	1.2	9.3	345	0.524	2,434
50	Class 2 = stranded	1.4	11.2	480	0.387	3,361
70	Class 2 = stranded	1.4	12.8	670	0.268	4,796
95	Class 2 = stranded	1.6	14.8	930	0.193	6,656
120	Class 2 = stranded	1.6	16.1	1,150	0.153	8,332
150	Class 2 = stranded	1.8	18	1,450	0.124	10,300
185	Class 2 = stranded	2	21	1,800	0.0991	12,936
240	Class 2 = stranded	2.2	23	2,400	0.0754	16,988
300	Class 2 = stranded	2.4	26	3,000	0.0601	21,462
400	Class 2 = stranded	2.6	30	3,800	0.047	26,812
500	Class 2 = stranded	2.8	33	4,900	0.0366	34,275
630	Class 2 = stranded	2.8	36	6,100	0.0283	44,143

*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>