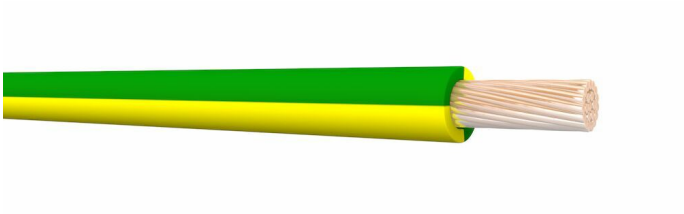
Prysmian

A Brand of Prysmian Group

# 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

## 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

## CONTACT INFORMATION

Prysmian Cables & Systems Limited, Chickenhall Lane, Eastleigh, Hampshire, SO50 6YU, United Kingdom

uk.prysmiangroup.com

## 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 1 = solid | 0.7 | 2.8 | 20 | 12.1 |
| 1.5 | Class 2 = stranded | 0.7 | 3 | 21 | 12.1 |
| 2.5 | Class 1 = solid | 0.8 | 3.4 | 30 | 7.41 |
| 2.5 | Class 2 = stranded | 0.8 | 3.6 | 32 | 7.41 |
| 4 | Class 2 = stranded | 0.8 | 4.2 | 47 | 4.61 |
| 6 | Class 2 = stranded | 0.8 | 4.7 | 67 | 3.08 |
| 10 | Class 2 = stranded | 1 | 6.3 | 120 | 1.83 |
| 16 | Class 2 = stranded | 1 | 6.9 | 170 | 1.15 |
| 25 | Class 2 = stranded | 1.2 | 8.3 | 255 | 0.727 |
| 35 | Class 2 = stranded | 1.2 | 9.3 | 345 | 0.524 |
| 50 | Class 2 = stranded | 1.4 | 11.2 | 480 | 0.387 |
| 70 | Class 2 = stranded | 1.4 | 12.8 | 670 | 0.268 |
| 95 | Class 2 = stranded | 1.6 | 14.8 | 930 | 0.193 |
| 120 | Class 2 = stranded | 1.6 | 16.1 | 1,150 | 0.153 |
| 150 | Class 2 = stranded | 1.8 | 18 | 1,450 | 0.124 |
| 185 | Class 2 = stranded | 2 | 21 | 1,800 | 0.0991 |
| 240 | Class 2 = stranded | 2.2 | 23 | 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 | 33 | 4,900 | 0.0366 |
| 630 | Class 2 = stranded | 2.8 | 36 | 6,100 | 0.0283 |