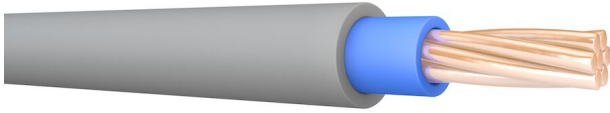


## 6181Y

**PVC Insulated and Sheathed Single Core Cable. BS 6004. 300/500 V**



Prysmian 6181Y is a low voltage single core, PVC insulated copper conductor with an additional PVC oversheath insulation for physical protection

### KEY APPLICATIONS

Fixed installation in dry or damp premises on walls, boards or trays, in channels or embedded in plaster

### FEATURES AND BENEFITS

- Manufactured under ISO 9001 Quality management systems

### ADDITIONAL TECHNICAL SUPPORT

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

### STANDARDS



**BS 6004**  
**BS EN 60332-1-2**

Construction Standard  
Flame Propagation - Single Cable

### CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyvinyl chloride (PVC)
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

## APPLICATIONS PROPERTIES

Nominal voltage U <sub>0</sub> [V]	300
Nominal voltage U [V]	500
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)	4D

## COLOURS

Insulation: Brown or Blue.

Sheath: Grey

## CURRENT RATINGS

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

## TECHNICAL DATA

Nominal cross section conductor [mm <sup>2</sup> ]	Conductor category	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Embodied Carbon [CO <sub>2</sub> e kg/km]
1	Class 1 = solid	0.7	4	27	18.1	71
1.5	Class 1 = solid	0.7	4.5	35	12.1	89
2.5	Class 1 = solid	0.8	5.1	48	7.41	120
6	Class 2 = stranded	0.8	6.6	93	3.08	250
10	Class 2 = stranded	1	7.8	145	1.83	393
25	Class 2 = stranded	1.2	10.9	320	0.727	830
35	Class 2 = stranded	1.2	12	420	0.524	1,115

\*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>