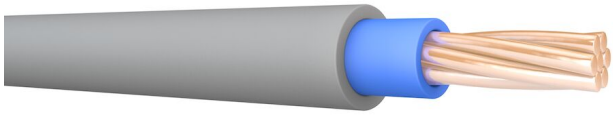
6181Y

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- 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 6004	Construction Standard
BS EN 60332-1-2	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 U0 [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 [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	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