

# PVC Cable Range

## 6181Y / Double Insulated Single Core

(Complies with BS 6004:2012)

Class 2 Stranded Copper  
PVC (Polyvinyl Chloride) Insulation  
PVC (Polyvinyl Chloride) Sheath



### Application

Double Insulated single core cable used for general surface cable for fixed installation, domestic and light industrial use. Often used as meter tails.

### Cable Description

Class 2 stranded copper wire,  
PVC (Polyvinyl Chloride) Insulation  
PVC (Polyvinyl Chloride) Sheath



### Insulation Colours

Blue / Brown (others available on request)

### Sheath Colours

Grey

### Third party Accreditation



Cables are tested and approved by  
BASEC (British Approvals Service for Cables)

### Physical characteristics

Nominal Cross-Sectional Area (mm <sup>2</sup> )	Nominal Radial Thickness Insulation (mm)	Nominal Radial Thickness Sheath (mm)	Maximum Diameter (mm)	Maximum Conductor Resistance at 20°C (ohms/km)	Nominal Weight (kg/km)
1.5	0.70	0.80	5.00	12.10	35
2.5	0.80	0.80	5.70	7.41	50
4.0	0.80	0.90	6.70	4.61	70
6.0	0.80	0.90	7.30	3.08	100
10.0	1.00	0.90	8.80	1.83	155
16.0	1.00	1.00	10.10	1.15	230
25.0	1.20	1.10	12.10	0.73	350
35.0	1.20	1.10	13.50	0.52	425

### Mechanical characteristics

Characteristic	Unit	Value
Operating Temperature Range	°C	-15°C to +70°C
Minimum Bend Radius up to 6mm <sup>2</sup>	Diameter	3D
Minimum Bend Radius 10mm <sup>2</sup> - 35mm <sup>2</sup>	Diameter	4D

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## Electrical characteristics at 20°C

Characteristic	Unit	Value
Voltage Rating	V	300/500
Current Rating Table	-	4D1A

## Current Carrying Capacity

Conductor cross-sectional area	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray horizontal or vertical etc.)				
	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c.	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables, three-phase a.c. flat and touching or trefoil	Touching			Spaced by one diameter	
							2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, single-phase a.c. or d.c. or 3 cables three-phase a.c. flat	
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	Horizontal	Vertical
1	11	10.5	13.5	12	15.5	14	-	-	-	-	-
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	20	18	24	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	59	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162

Ambient temperature: 30°C

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D1A of the 18th Edition of IEE Wiring Regulations BS7671

## Fire Performance

Test	Test Method	Value	Comment
Single Cable Vertical Burn Test	BS EN 60332-1: 2004	Onset of char (from top support): > 50mm Extent of char (from top support): < 425mm	Compliant
CPR Euro Classification	BS EN 50575-201 4 AI-2016	Eca	

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