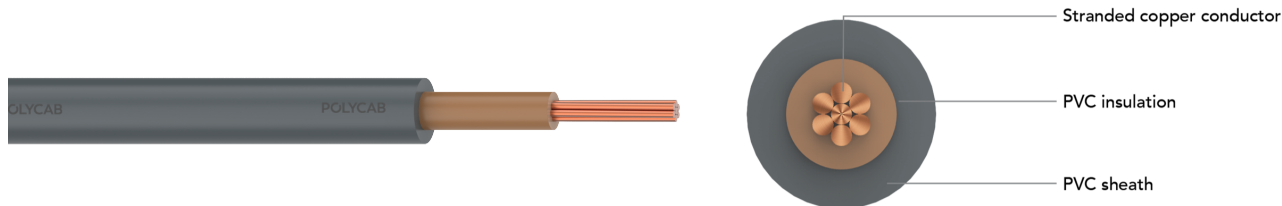


# POLYCAB 6181Y BS 6004 SC

## Lighting & Appliance wire, 300/500 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB 6181Y BS 6004 SC stranded copper conductor PVC insulated and PVC sheathed cable confirm the requirement as per BS 6004. These cables are intended to use for electric power and lighting application

### CHARACTERISTICS

**Voltage Rating**  
300/500 V

**Operation Temperature**  
Fixed: -15°C to 70° C  
Max. short circuit temp. 160°C

**Bending Radius**  
Fixed installation - 8 x Overall Diameter  
Occasional - 6 x Overall Diameter

### CONSTRUCTION

- Annealed stranded or solid copper conductor as per EN 60228, class 2 or Class 1
- Insulated with PVC Type TI 1 to EN 50363-3
- Sheathed with PVC Type 6 to BS 7655-4.2

### Core Identification

Brown or Blue

**Test Voltage**  
2000V AC at (20±5) °C

### OUTSTANDING FEATURES

- Flame Propagation
- Heat stability
- UV stability

### STANDARD FOLLOWS

EN 60228  
EN 50363-3  
BS 7655-4.2  
BS 6004:2000

### COMPLIANCE

Conductor Resistance test - EN 60228  
Insulation Resistance test - BS 6004  
Flame propagation - EN 60332-1-2

### OUR ACCREDITATIONS



### APPROVAL



WEIGHT & DIMENSION DATA :

Product Code	Construction n x mm <sup>2</sup>	Class of conductor	Nominal insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CYUAYA001C001S	1 x 1	1	0.6	3.9	26
LDBS04CYUAYA001C1.5S	1 x 1.5	1	0.7	4.4	35
LDBS04CYUAYA001C2.5S	1 x 2.5	1	0.8	5	50
LDBS04CYUAYA001C004S	1 x 4	2	0.8	5.98	72
LDBS04CYUAYA001C006S	1 x 6	2	0.8	6.52	94
LDBS04CYUAYA001C010S	1 x 10	2	1	7.85	145
LDBS04CYUAYA001C016S	1 x 16	2	1	9.1	213
LDBS04CYUAYA001C025S	1 x 25	2	1.2	11.02	325
LDBS04CYUAYA001C035S	1 x 35	2	1.2	12.16	426

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal 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.)					Maximum DC conductor resistance at 20°C
							Touching			Spaced by one diameter		
	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	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		
										Horizontal	Vertical	
mm <sup>2</sup>	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
1	11	10.5	13.5	12	15.5	14	—	—	—	—	—	18.1
1.5	14.5	13.5	17.5	15.5	20	18	—	—	—	—	—	12.1
2.5	20	18	24	21	27	25	—	—	—	—	—	7.41
4	26	24	32	28	37	33	—	—	—	—	—	4.61
6	34	31	41	36	47	43	—	—	—	—	—	3.08
10	46	42	57	50	65	59	—	—	—	—	—	1.83
16	61	59	76	68	87	79	—	—	—	—	—	1.15
25	80	73	101	89	114	104	131	114	110	146	130	0.727

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35	99	89	125	110	141	129	162	143	137	181	162	0.524
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Ambient temperature: 30°C  
Conductor operating temperature: 70°C  
The above table is in accordance with Table 4D1A of BS 7671.

De-Rating Factor

De-rating factor for 70°C thermosetting or thermoplastic insulated cable.

Ambient Temperature	35°C	40°C	45°C	50°C	55°C
De-rating factor	0.91	0.82	0.71	0.58	0.41