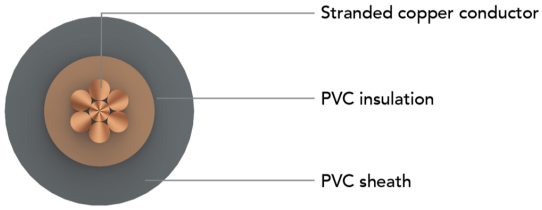
POLYCAB 6181Y BS 6004 SC
Lighting & Appliance wire, 300/500 V AC



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
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APPROVAL
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POLYCAB 6181Y BS 6004 SC
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POLYCAB
IDEAS. CONNECTED.

WEIGHT & DIMENSION DATA :

Product Code	Construction n x mm²	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	
mm²	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

35	99	89	125	110	141	129	162	143	137	181	162	0.524

Ambient temperature: 30ºC
Conductor operating temperature: 70ºC
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