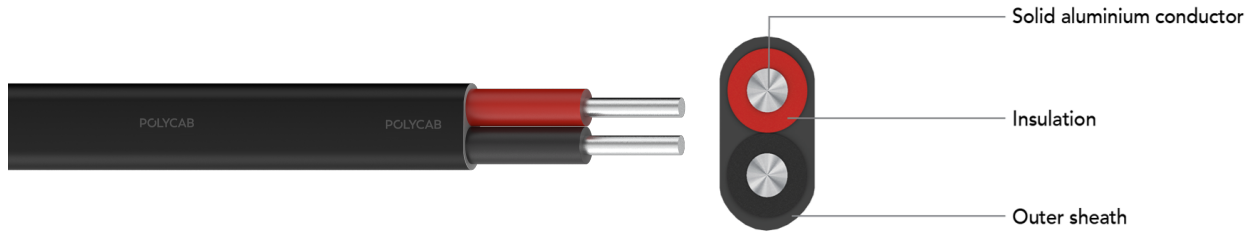


# POLYCAB 02AYY – 2 CORE FLAT

## Service Cable, 1100 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB 02AYY – 2 Core twin parallel PVC insulated, and sheathed Aluminium flat cable is suitable to use for industries, buildings and complexes where armouring protection is not required.

### CHARACTERISTICS

**Voltage Rating**  
1100 V

**Operation Temperature**

Fixed: -15°C to 70°C

**Bending Radius**

Fixed installation >12 x Overall Diameter

Occasional >10 x Overall Diameter

### CONSTRUCTION

- Solid Aluminium conductor as per IS 8130
- Insulated with PVC Type A to IS 5831
- Sheathed with PVC TYPE ST1 to IS 5831

**Core Identification**

Red and Black

**Test Voltage**

3000 V AC at (20±5) °C

### STANDARD FOLLOWS

IS 8130  
IS 5831:1984  
IS 694:2010

### COMPLIANCE

Conductor resistance test IS 8130  
Insulation resistance test IS 5831  
Flammability IEC 60332-1-2

### OUR ACCREDITATIONS



### APPROVAL



# POLYCAB 02AYY – 2 CORE FLAT

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### WEIGHT & DIMENSION DATA

Product Code	Conductor size	Nominal insulation thickness	Overall dimension (Approx.)	Weight (Approx.)
	n x mm <sup>2</sup>	mm	mm	kg/km
SEIS09AYUAY1002C1.5S	2 x 1.5	0.6	7 x 4.4	32
SEIS09AYUAY1002C2.5S	2 x 2.5	0.7	8.4 x 5.2	43
SEIS09AYUAY1002C004S	2 x 4	0.8	9.7 x 5.9	50
SEIS09AYUAY1002C006S	2 x 6	0.8	10.9 x 6.6	61
SEIS09AYUAY1002C010S	2 x 10	1	13.8 x 8.3	99

### Electrical characteristics

#### Current carrying capacity and Maximum DC conductor resistance.

Nominal cross sectional area	Enclosed in conduit or trunking	Clipped direct to a surface or on a cable tray and unenclosed	Maximum DC conductor resistance at 20°C
	Twin cable, single Phase ac or dc	Twin cable, single Phase ac or dc	
mm <sup>2</sup>	Amp.	Amp.	Ω/km
1.5	12	15	18.1
2.5	16	19	12.1
4	21	26	7.41
6	27	32	4.61
10	37	42	3.08

Ambient temperature: 40°C.

Conductor operating temperature 70°C.

The above table is as per IS 3961(Part 5)

### De-Rating Factor

#### De-rating factor for various ambient temperature.

Ambient Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De-Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4