

Polycab offers a Service cable in compliance with BIS specification & standard.



These are low voltage cable of 1100 V grade, PVC insulated, and sheathed Aluminium flat cable is suitable to use for industries, buildings, and complexes where armouring protection is not required. These cables are available with operating temperature rating of 70°C.

Conductor: Solid aluminum conductor.

Insulation: Inhouse developed high insulation resistance thermoplastic PVC compound.

Sheath: Sheathing is provided with specially formulated PVC compound to facilitate stripping and withstand mechanical abrasion while in use.

Polycab assures the highest quality standard in every product by having stringent quality control with requisite testing which are applied at every single stage from raw material to finished goods.

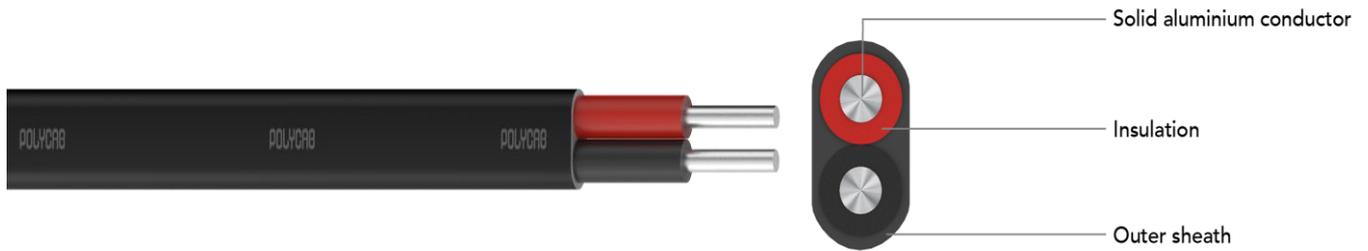
The construction is based on the application and requirement of the user against IS 694.



[POLYCAB 02AYY – 2 CORE FLAT - Service Cable, 1100 V AC](#)

POLYCAB 02AYY – 2 CORE FLAT

Service Cable, 1100 V AC



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.

Voltage Rating

1100 V

Operation Temperature

Fixed: -15°C to 70°C

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

Bending Radius

Fixed installation >12 x Overall Diameter
Occasional >10 x Overall Diameter

Standard and References

IS 8130
IS 5831:1984
IS 694:2010

Test Voltage

3000 V AC at (20±5) °C

Compliance

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

Approvals



OUR ACCREDITATION



POLYCAB 02AYY – 2 CORE FLAT

Service Cable, 1100 V AC

Product Code	Conductor size	Nominal insulation thickness	Overall dimension (Approx.)	Weight (Approx.)
	n x mm ²	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 mm ²	Enclosed in conduit or trunking	Clipped direct to a surface or on a cable tray and unenclosed	Maximum DC conductor resistance at 20°C Ω/km
	Twin cable, single Phase ac or dc Amp.	Twin cable, single Phase ac or dc Amp.	
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

OUR ACREDITATION

