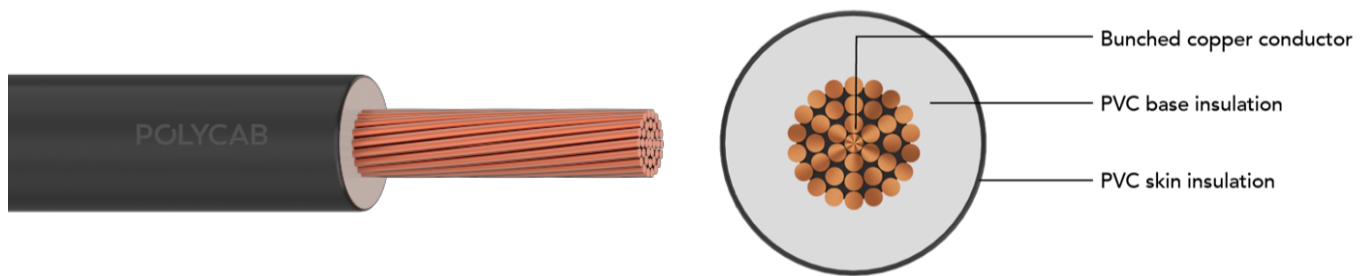


POLYCAB H05V-U/H05V-R/H05V-K BS EN 50525-2-31

SC

Industrial Cable, 300/500 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB H05V-U/H05V-R/H05V-K single core non-sheathed thermoplastic insulated cable is suitable for power installation, domestic application, industrial appliances and equipment. These cables are used in exposed conduits, embedded conduits as well as closed installation duct.

CHARACTERISTICS

Voltage Rating
300/500 V

Operation Temperature
Fixed: -15°C to 70° C

CONSTRUCTION

- Annealed stranded or solid copper conductor as per IEC 60228, class 2 or class 1 or Class 5
- Insulated with Polyvinyl Chloride Type TI 1 to EN 50363-3

Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/Violet/White/Green/Yellow

Bending Radius

Fixed installation - 8 x Overall Diameter

Test Voltage

2000V AC at (20±5) °C

OUTSTANDING FEATURES

- Flexible
- Flame Retardant
- Good Insulation Resistance

STANDARD FOLLOWS

IEC 60228
BS EN 50363-3
BS EN 50525-2-31
IEC 60332-1-2

COMPLIANCE

Conductor resistance test - IEC 60228
Insulation resistance - EN 50525-2-31
Tests under fire condition - EN 60332-1-2
Flame retardant properties as per IEC 60332-1-2

OUR ACCREDITATIONS



APPROVAL



Weight & Dimension Data

Product Code	Size of Conductor mm ²	Class of conductor	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km
LDBS04CYUAYA001C0.5S	0.5	1	2.2	11
LDBS04CYUAYA001C.755S	0.75	1	2.4	15
LDBS04CYUAYA001C001S	1	1	2.6	19
LDBS04CYUAYA001C0.5S	0.5	2	2.1	8
LDBS04CYUAYA001C.75S	0.75	2	2.31	11
LDBS04CYUAYA001C001S	1	2	2.46	14
LDBS04CYUAYA001C0.5S	0.5	5	2.11	9
LDBS04CYUAYA001C.75S	0.75	5	2.32	11
LDBS04CYUAYA001C001S	1	5	2.49	14

Electrical Characteristics

Current carrying capacity and max. DC conductor resistance.

Nominal cross sectional area	Current-carrying capacity		Maximum resistance of conductor at 20°C
	Single-phase a.c.	Three-phase a.c.	
mm ²	Amp.	Amp.	Ω/km
0.5	3	3	39
0.75	6	6	26
1	10	10	19.5

The ambient temperature is 30°C.
Conductor operating temperature 70°C.
The above table is in accordance with Table 4F3A of BS 7671:2018

De-Rating Factor

De-rating factor for 70°C thermoplastic insulated cable

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41