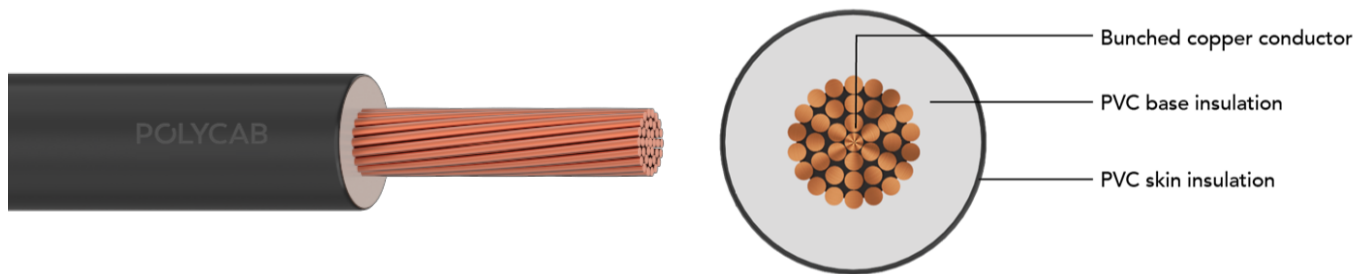


# POLYCAB H05V-U/H05V-R/H05V-K BS EN 50525-2-31

## SC

### Industrial Cable, 300/500 V AC

**POLYCAB**  
IDEAS. CONNECTED.



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



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

## SC

### Industrial Cable, 300/500 V AC

#### Weight & Dimension Data

Product Code	Size of Conductor mm <sup>2</sup>	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 <sup>2</sup>	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