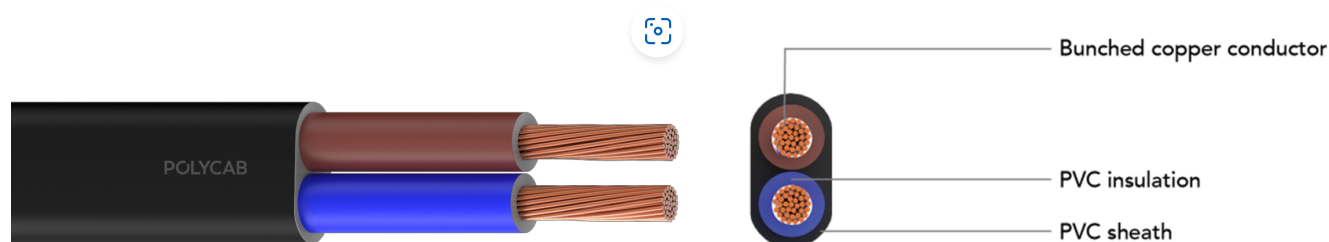


## Lighting & Appliances Cable, 300/300 V & 300/500 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H03Z1Z1H2-F/H05Z1Z1H2-F cable insulated and sheathed with halogen free thermoplastic compound and having low emission of smoke and corrosive gases when exposed to fire. This cable intended to use for connection of domestic appliances to the fixed supply.

### CHARACTERISTICS

#### Voltage Rating

H03Z1Z1H2-F - 300/300 V

H05Z1Z1H2-F – 300/500 V

#### Operation Temperature

Fixed: -15°C to +70° C

### CONSTRUCTION

- Annealed stranded copper conductor as per IEC 60228, class 5
- Insulated with Halogen free thermoplastic Type TI 6 to EN 50363-7.
- Sheathed with Halogen free thermoplastic Type TM 7 to EN 50363-8

#### Core Identification

Two core Blue, Brown

#### Bending Radius

Fixed installation – 8 x Overall diameter

#### Test Voltage

H03Z1Z1H2-F - 1500V AC at (20±5) °C

H05Z1Z1H2-F - 2000V AC at (20±5) °C

### OUTSTANDING FEATURES

- Highly Flexible
- Good Insulation Resistance
- Halogen Free
- Low Smoke

### STANDARD FOLLOWS

IEC 60228

BS EN 50363-7

BS EN 50363-8

BS EN 50525-3-11

IEC 60332-1-2

### COMPLIANCE

Conductor Resistance test - IEC 60228

Insulation Resistance test - EN 50525-3-11

Test on sine vertical cable - EN 60332-1-2

Smoke Emission test - EN 61034-2

Flame Retardant according to IEC 60332-1-2.

### OUR ACCREDITATIONS



### APPROVAL



## Lighting & Appliances Cable, 300/300 V & 300/500 V AC

### Dimensions

**Dimension table for H03Z1Z1H2-F**

Product basic code	Construction n x mm <sup>2</sup>	No. of strands/wire dia. No./mm	Overall Dimension mm	Weight (Approx.) kg/km
LDBS05CLUALS002C0.5S	2 x 0.5	16/0.2	3.11 x 5.02	31
LDBS05CLUALS002C.75S	2 x 0.75	24/0.2	3.32 x 5.43	38

**Dimension table for H05Z1Z1H2-F**

Product basic code	Construction n x mm <sup>2</sup>	No. of strands/wire dia. No./mm	Overall Dimension mm	Weight (Approx.) kg/km
LDBS04CLUALS002C.75S	2 x 0.75	24/0.2	3.92 x 6.23	49
LDBS04CLUALS002C001S	2 x 1	32/0.2	4.09 x 6.58	56

### Electrical Characteristics

Current carrying capacity and max. DC conductor resistance at 20°C

Nominal Cross sectional Area mm <sup>2</sup>	Current carrying Capacity		Max. DC cond. resistance at 20°C Ω/km
	Single Phase a.c Amp	Three Phase a.c Amp	
0.5	3	3	39
0.75	6	6	26
1	10	10	19.5

The ambient temperature is 30°C.

Conductor operating temperature 60°C.

The above table is in accordance with Table 4F3A of BS 7671:2018

### De-Rating Factor

**De-rating factor for ambient temperature 60°C thermoplastic insulation.**

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