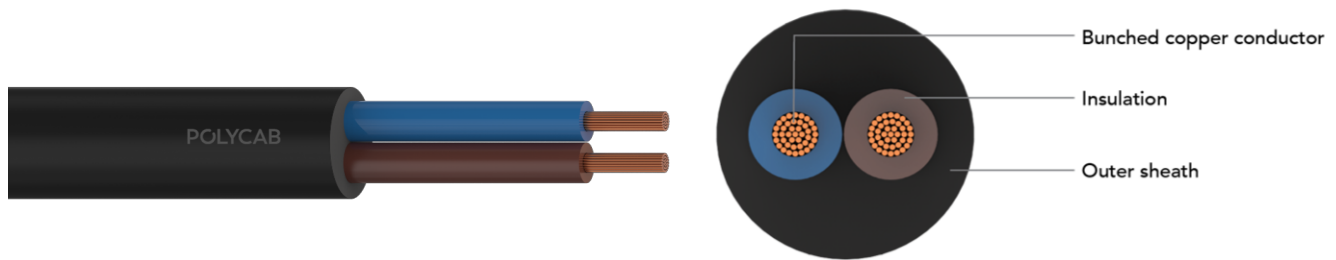


# POLYCAB H05Z1Z1-F BS EN 50525-3-11

## Industrial Cable, 300/500 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB H05Z1Z1-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**  
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

Three core Green-Yellow, Blue, Brown

Four core Green-Yellow, Brown, Black, Grey

Five core Green-Yellow, Blue, Brown, Black, Grey

#### Bending Radius

Fixed installation – 8 x Overall diameter

#### Test Voltage

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



**Weight & Dimension Data**

Product Code	Nominal cross sectional area mm <sup>2</sup>	No. of strands/wire dia. No./mm	Overall Diameter mm	Weight (Approx.) kg/km
LDBS04CLUALS002C.75S	2 x 0.75	24/0.2	6.23	59
LDBS04CLUALS002C001S	2 x 1	32/0.2	6.58	68
LDBS04CLUALS002C1.5S	2 x 1.5	30/0.25	7.52	91
LDBS04CLUALS002C2.5S	2 x 2.5	50/0.25	9.23	141
LDBS04CLUALS002C004S	2 x 4	56/0.3	10.52	194
LDBS04CLUALS003C.75S	3 x 0.75	24/0.2	6.60	70
LDBS04CLUALS003C001S	3 x 1	32/0.2	6.98	81
LDBS04CLUALS003C1.5S	3 x 1.5	30/0.25	8.20	114
LDBS04CLUALS003C2.5S	3 x 2.5	50/0.25	10.01	176
LDBS04CLUALS003C004S	3 x 4	56/0.3	11.38	244
LDBS04CLUALS004C004S	4 x 0.75	24/0.2	7.21	85
LDBS04CLUALS004C001S	4 x 1	32/0.2	8.79	123
LDBS04CLUALS004C1.5S	4 x 1.5	30/0.25	9.17	145
LDBS04CLUALS004C2.5S	4 x 2.5	50/0.25	10.95	217
LDBS04CLUALS004C004S	4 x 4	56/0.3	12.47	303
LDBS04CLUALS005C.75S	5 x 0.75	24/0.2	8.06	106
LDBS04CLUALS005C001S	5 x 1	32/0.2	8.52	125
LDBS04CLUALS005C1.5S	5 x 1.5	30/0.25	10.19	180
LDBS04CLUALS005C2.5S	5 x 2.5	50/0.25	12.16	268
LDBS04CLUALS005C004S	5 x 4	56/0.3	14.03	382

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.	
0.75	6	6	26
1	10	10	19.5
1.5	16	16	13.3
2.5	25	20	7.98
4	32	25	4.95

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