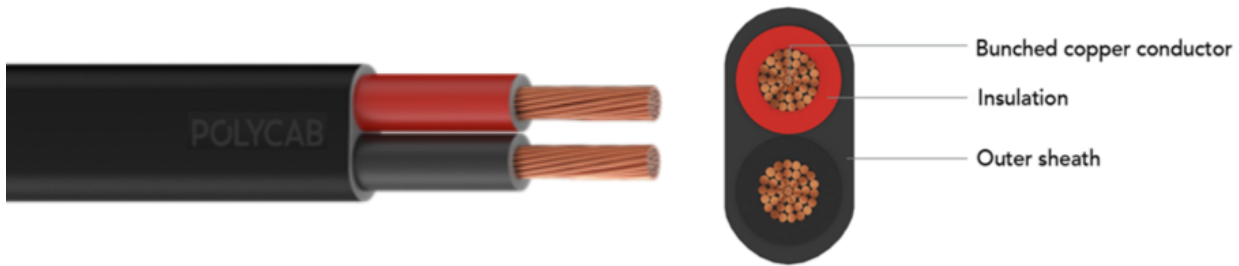


# POLYCAB HFFR-04XZZ-K/04XZXZ-K flat Industrial Cords, 1100 V AC



Images not to scale. Follow table for dimensions

## APPLICATION

POLYCAB HFFR-04XZZ-K/04XZXZ-K flat, insulated and sheathed with halogen free flame retardant thermoplastic or cross-linked halogen free flame retardant thermosetting compound confirming to IS 17048 is suitable to use in electric power and lighting for indoor use in AC single phase systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

## CHARACTERISTICS

**Voltage Rating**  
1100 V

**Operation Temperature**  
Fixed: -15°C to +90° C

## CONSTRUCTION

- Bare or tinned bunched copper conductor as per IS 8130, class 5
- Insulated with cross linked halogen free flame retardant (HFFR) compound type HFI-XL 90 to IS 17048
- Sheathed with halogen free flame retardant compound type HFS TP 90 or cross linked halogen free flame retardant (HFFR) compound type HFS-XL 90 to IS 17048

### Core Identification

Two core Red and Black

### Bending Radius

Fixed installation 6 x Overall diameter

Occasional 4 x Overall diameter

### Test Voltage

3000V AC at room temperature

## OUTSTANDING FEATURES

- Low Smoke
- Halogen Free
- Flame Retardant
- Highly Flexible

## STANDARD FOLLOWS

IS 8130:2013  
IS 17048:2018  
IEC 60332-1-2

## COMPLIANCE

Conductor resistance - IS 8130  
Insulation resistance - IS 17048:2018  
Oxygen Index > 31% As per ASTM D2863  
Smoke emission test < 6% As Per ASTM D2843  
Acid gas Generation - <0.0 As per IEC 60754-1  
Under fire condition - Resist as per EN 60332

## OUR ACCREDITATIONS



## APPROVAL



## NOTES

Sheathing with cross linked halogen free flame retardant HFS XL 90 available on demand

**Weight & Dimension Data**

Product Code	Conductor size	Nominal insulation thickness	Overall dimension (Approx.)	Weight (Approx.)
	n x mm <sup>2</sup>	mm	mm	kg/km
LDIS09CLUALS002C0.5S	2 x 0.5	0.6	6 x 3.9	46
LDIS09CLUALS002C.75S	2 x 0.75	0.6	6.4 x 4.1	54
LDIS09CLUALS002C001S	2 x 1	0.6	6.8 x 4.3	61
LDIS09CLUALS002C1.5S	2 x 1.5	0.6	7.3 x 4.6	74
LDIS09CLUALS002C2.5S	2 x 2.5	0.7	8.8 x 5.4	109
LDIS09CLUALS002C004S	2 x 4	0.8	10.1 x 6.1	144

**Electrical characteristics**

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area	Current-carrying capacity	Maximum DC conductor resistance at 20°C
mm <sup>2</sup>	Amp.	Ω/km
0.5	5	39
0.75	9	26
1	14	19.5
1.5	18	13.3
2.5	24	7.98
4	33	4.95

Air Ambient temperature: 40°C,  
 Conductor operating temperature: 90°C

**De-Rating Factor**

De-rating factor for 90°C thermosetting insulated cable.

Air Temperature	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C	85°C
De-Rating Factor	0.94	0.89	0.83	0.77	0.70	0.63	0.54	0.44	0.31