



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB HFFR-04XZ-K SC, Single core cable insulated with cross linked halogen free flame retardant compound having low smoke emission and corrosive gases when exposed to fire condition. This cable is designed to use in conduit and for fixed protected installation. This is also suitable to use high rise buildings, hospitals, and offices where Smoke emission and toxic fume create a potential risk to life as well as the lifesaving equipment.

CHARACTERISTICS

Voltage Rating
1100 V

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

CONSTRUCTION

- Annealed bare or tinned bunched copper conductor as per IS 8130, class 5
- Insulated with cross linked halogen free flame retardant compound type HFI-XL 90 to IS 17048

Core Identification
Red/Black/Blue/Yellow/White/Grey/Green-Yellow

Bending Radius
Fixed 4 x Overall Diameter
Occasional 6 x Overall Diameter

Test Voltage
3000V AC at room temperature

OUTSTANDING FEATURES

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

STANDARD FOLLOWS

IS 8130
IS 17048
IEC 60332-1-2

COMPLIANCE

Conductor resistance IS 8130
Insulation resistance IS 17048:2018
Oxygen index Min. 31% as per IS 10810 (Part 58)/ASTM D2863
Smoke density Min. 70% as per IS 10810 (Part 63)/ASTM D2843
Assessment of halogens as per IS 10810 (Part 59)/IS 17048

OUR ACCREDITATIONS



APPROVAL



POLY CAB HFFR-04XZ-K SC

Building wire, 1100 V AC

POLY CAB
IDEAS. CONNECTED.

Weight & Dimension Data

| Product Code | Nominal cross-sectional area mm ² | Class of conductor | Insulation thickness mm | Overall Diameter (Approx.) mm | Weight (Approx.) |
|----------------------|---|--------------------|----------------------------|-------------------------------------|---------------------|
| LDIS09CLUALC001C0.5S | 0.5 | 5 | 0.6 | 2.11 | 9 |
| LDIS09CLUALC001C.75S | 0.75 | 5 | 0.6 | 2.32 | 11 |
| LDIS09CLUALC001C001S | 1 | 2 | 0.7 | 2.67 | 15 |
| LDIS09CLUALC001C001S | 1 | 5 | 0.6 | 2.49 | 14 |
| LDIS09CLUALC001C1.5S | 1.5 | 2 | 0.7 | 3 | 21 |
| LDIS09CLUALC001C1.5S | 1.5 | 5 | 0.6 | 2.76 | 19 |
| LDIS09CLUALC001C2.5S | 2.5 | 2 | 0.8 | 3.62 | 32 |
| LDIS09CLUALC001C2.5S | 2.5 | 5 | 0.7 | 3.42 | 31 |
| LDIS09CLUALC001C004S | 4 | 5 | 0.8 | 4.07 | 45 |
| LDIS09CLUALC001C006S | 6 | 5 | 0.8 | 4.62 | 64 |
| LDIS09CLUALC001C010S | 10 | 5 | 1 | 5.92 | 106 |
| LDIS09CLUALC001C016S | 16 | 5 | 1 | 6.97 | 162 |

Electrical Characteristics

Current carrying capacity and maximum DC resistance

| Nominal cross-sectional area mm ² | Class of conductor | Reference method B (enclosed in conduit on a wall or in trunking etc) | Reference method C (clipped direct) | Maximum DC conductor resistance at 20°C Ω/km |
|---|--------------------|--|--|---|
| | | | Amp. | |
| 0.5 | 5 | 5 | 5 | 39 |
| 0.75 | 5 | 9 | 10 | 26 |
| 1 | 2 | 15.5 | 17 | 18.1 |
| 1 | 5 | 15 | 16 | 19.5 |
| 1.5 | 2 | 21 | 23 | 12.1 |
| 1.5 | 5 | 20 | 22 | 13.3 |
| 2.5 | 2 | 28 | 31 | 7.41 |
| 2.5 | 5 | 27 | 29 | 7.98 |
| 4 | 5 | 36 | 40 | 4.95 |
| 6 | 5 | 47 | 51 | 3.3 |
| 10 | 5 | 65 | 70 | 1.91 |

POLY CAB HFFR-04XZ-K SC
Building wire, 1100 V AC

POLY CAB
IDEAS. CONNECTED.

| | | | | |
|----|---|----|----|------|
| 16 | 5 | 86 | 94 | 1.21 |
|----|---|----|----|------|

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

The above table is in accordance with BS 7671(Table 4E1A)

De-Rating Factor

De-rating factor for various ambient temperature.

| Air Temperature | 35°C | 40°C | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C | 75°C | 80°C | 85°C |
|------------------|------|------|------|------|------|------|------|------|------|------|------|
| De-Rating Factor | 1.04 | 1.0 | 0.95 | 0.89 | 0.84 | 0.82 | 0.77 | 0.63 | 0.55 | 0.45 | 0.32 |