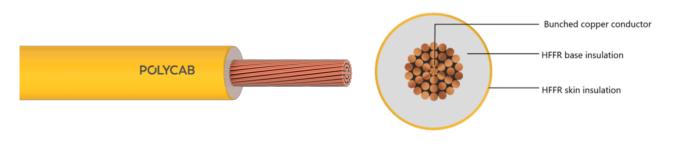
POLYCAB HFFR-01Z-K/03XZ-K SC Building wire, 1100 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB HFFR-01Z-K/03XZ-K SC, insulated with cross linked halogen free flame retardant compound thermoplastic or cross linked thermoset 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 highrise buildings, hospitals, and offices where Smoke emission and toxic fume create a potential risk to life as well as the lifesaving equipment.

CHARACTERISTICS

Volta<mark>ge</mark> Rating 1100 V

Operation Temperature Fixed: -15°C to + 70° C

CONSTRUCTION

- Annealed bare or tinned bunched copper conductor as per IS 8130, class 5
- Insulated with halogen free flame retardant compound type HFI-TP 70 or cross linked halogen free flame retardant compound type HFI-XL 70 as per 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



NOTES

Cable with HFI XL-70 insulation is available on demand.

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Weight & Dimension Data

Product Code	Nominal cross sectional area mm ²	Class of conductor	insulation thickness mm	Overall Diameter (Approx.) mm	Weight (Approx.) Kg/km
LDIS09CLUALS001C0.5S	0.5	5	0.6	2.11	9
LDIS09CLUALS001C.75S	0.75	5	0.6	2.32	11
LDIS09CLUALS001C001S	1	2	0.7	2.67	15
LDIS09CLUALS001C001S	1	5	0.6	2.49	14
LDIS09CLUALS001C1.5S	1.5	2	0.7	3	21
LDIS09CLUALS001C1.5S	1.5	5	0.6	2.76	19
LDIS09CLUALS001C2.5S	2.5	2	0.8	3.62	32
LDIS09CLUALS001C2.5S	2.5	5	0.7	3.42	31
LDIS09CLUALS001C04S	4	5	0.8	4.07	45
LDIS09CLUALS001C006S	6	5	0.8	4.62	64
LDIS09CLUALS001C010S	10	5	1	5.92	106
LDIS09CLUALS001C016S	16	5	1	6.97	162
LDIS09CLUALS001C016S	16	5	1	6.97	162

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area	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	
mm ²		Amp.	Amp.	Ω/km	
0.5	5	4	4.6	39	
0.75	5	7	8	26	
1	2	11.7	13.5	18.1	
1	5	11.2	12.8	19.5	
1.5	2	15.2	17.4	12.1	
1.5	5	14.5	16.5	13.3	
2.5	2	20.9	23.5	7.41	
2.5	5	19.8	22.3	7.98	
4	5	26.6	30.6	4.95	
6	5	33.9	38.8	3.3	
10	5	47.1	53.7	1.91	

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16	5	62.8	71.9	1.21
The ambient temperatur	e is 40°C.			

Conductor operating temperature 70°C. The above table is in accordance with the BS 7671(Table 4D1A)

De-Rating Factor

De-rating factor for various ambient temperature

Ambient Temperature	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De-Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4



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