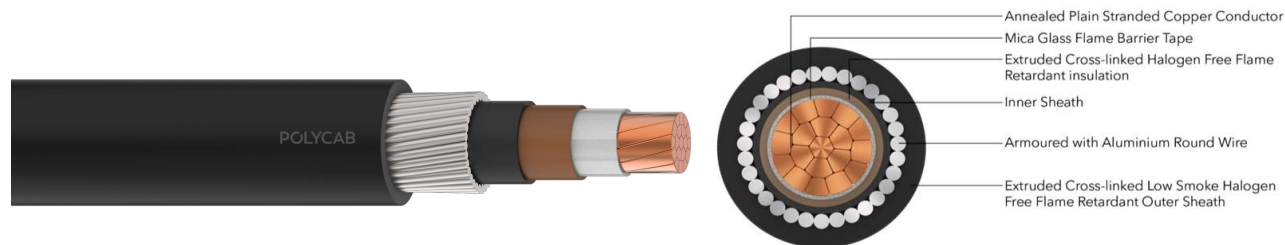


# POLYCAB IGNIS 242

## Fire Survival Cable, 600/1000 V AC



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAB FS Single Core Armoured and Sheathed cable is suitable to use in various indoor & outdoor applications such as tunnels, high rise building, schools, hospitals, hotels, Malls, Subways for emergency lighting during the event of fire.

### CHARACTERISTICS

#### Voltage Rating

600/1000V AC

#### Operation Temperature

-20°C to +90°C

Short Circuit Temperature 250°C

#### Bending Radius

Min. 8 x Overall Diameter

#### Test Voltage:

3500 V AC at (20±5)°C

### CONSTRUCTION

- Annealed plain stranded copper conductor as per IEC 60228, Class-2.
- Mica Glass flame barrier tape.
- Extruded Cross-linked Halogen Free Flame Retardant Insulation
- Inner sheath
- Armoured with Aluminium round wire
- Extruded Cross-linked Low Smoke Halogen Free Flame Retardant Sheath

#### Core Colour

Brown or Blue

### OUTSTANDING FEATURES

- High Resistant to Fire
- Halogen Free
- Reduced Flame Propagation
- Circuit Integrity when exposed to Fire
- Low Toxicity
- Fire Barrier

### STANDARD FOLLOWS

EN 60228:2005

Generally conforming to BS 6724

### COMPLIANCE

Fire Resistant	IEC 60331-3
Flame Propagation	EN 60332-1-2
Fire Retardant	EN 60332-3 (Cat.C)
Halogen free material	EN 60754-1
Smoke Density	EN 61034-2
Toxicity	NES 02-713

### OUR ACCREDITATIONS



### APPROVAL



# POLYCAB IGNIS 242

## Fire Survival Cable, 600/1000 V AC

### DIMENSIONS AND WEIGHTS:

Product Code	No. of Cores	Cross Sectional Area (mm <sup>2</sup> )	Approx. Cable Overall Dia. (mm)	Max. Conductor Resistance, DC at 20°C (Ohms/Km)	Max. Conductor Resistance, AC at 90°C (Ohms/Km)	Cable Weight Approx. (kg / km)
FSBS07CLAWLS001C050SA001P	1	50	18.4	0.387	0.494	760
FSBS07CLAWLS001C070SA001P	1	70	20.8	0.268	0.342	1050
FSBS07CLAWLS001C095SA001P	1	95	23	0.193	0.247	1340
FSBS07CLAWLS001C120SA001P	1	120	24.6	0.153	0.196	1620
FSBS07CLAWLS001C150SA001P	1	150	27.5	0.124	0.16	2035
FSBS07CLAWLS001C185SA001P	1	185	30	0.0991	0.129	2470
FSBS07CLAWLS001C240SA001P	1	240	33.8	0.0754	0.0988	3060
FSBS07CLAWLS001C300SA001P	1	300	36.4	0.0601	0.0804	3715
FSBS07CLAWLS001C400SA001P	1	400	41.1	0.047	0.0647	4830
FSBS07CLAWLS001C500SA001P	1	500	45	0.0366	0.0527	5930
FSBS07CLAWLS001C630SA001P	1	630	49.7	0.0283	0.0434	7400

### ELECTRICAL CHARACTERISTICS:

Current Carrying Capacity (Amperes)											
Air Ambient Temperature - 30°C											
Conductor operating Temperature - 90°C											
Conductors cross-sectional area (mm <sup>2</sup> )	Reference method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)								
			Touching			Spaced by one cable diameter					
	2 cables single-phase a.c or d.c flat	3 or 4 cables, three phase a.c flat	2 cables single phase a.c or d.c flat	3 cables single phase a.c flat	3 cables three phase a.c trefoil	2 cables, d.c		2 cables, single-phase a.c		3 or 4 cables, three phase a.c	
	Amp.	Amp.	Amp.	Amp.	Amp.	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	322	293	285	356	349	357	337	358	331
95	367	333	389	352	346	446	426	436	412	425	393
120	425	383	449	405	402	519	497	504	477	485	449
150	488	437	516	462	463	600	575	566	539	549	510
185	557	496	587	524	529	688	680	643	614	618	574
240	656	579	689	612	625	815	782	749	714	715	666
300	755	662	792	700	720	943	906	842	805	810	755

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## Fire Survival Cable, 600/1000 V AC

400	853	717	899	767	815	1137	1094	929	889	848	797
500	962	791	1016	851	918	1314	1266	1032	989	923	871
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940

The above table is in accordance with Table 4E3A of BS 7671-2018

Current rating de-rating factors for other than 30°C ambient air temperature

Air Temperature	25	30	35	40	45	50	55	60	65	70	75	80
De-rating factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41

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