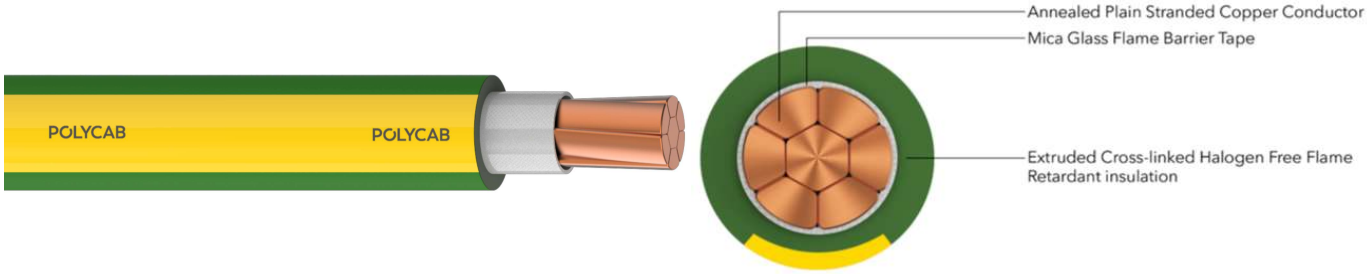
POLYCAB IGNIS 240
Fire Survival Cable, 450/750 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB FS Single Core 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
450/750V AC
Can be extended to 1000V
Operation Temperature
-20°C to +90°C
Short Circuit Temperature 250°C
Bending Radius
Min. 8 x Overall Diameter

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

Core Colour

Green-Yellow or any mono colour

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
BS 8592:2016

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 240
Fire Survival Cable, 450/750 V AC

DIMENSIONS AND WEIGHTS:

Product code	No. of Cores	Cross Sectional Area (mm²)	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)
FSBS06CLUALS001C1.5SA001P	1	1.5	3.5	12.1	15.4	27
FSBS06CLUALS001C2.5SA001P	1	2.5	4.1	7.41	9.45	40
FSBS06CLUALS001C004SA001P	1	4	4.6	4.61	5.88	55
FSBS06CLUALS001C006SA001P	1	6	5.1	3.08	3.93	75
FSBS06CLUALS001C010SA001P	1	10	6.5	1.83	2.33	120
FSBS06CLUALS001C016SA001P	1	16	7.6	1.15	1.47	180
FSBS06CLUALS001C025SA001P	1	25	9.3	0.727	0.927	280
FSBS06CLUALS001C035SA001P	1	35	10.4	0.524	0.668	380
FSBS06CLUALS001C050SA001P	1	50	12.1	0.387	0.494	510
FSBS06CLUALS001C070SA001P	1	70	13.9	0.268	0.342	715
FSBS06CLUALS001C095SA001P	1	95	16	0.193	0.247	950
FSBS06CLUALS001C120SA001P	1	120	17.7	0.153	0.196	1225
FSBS06CLUALS001C150SA001P	1	150	19.8	0.124	0.16	1500
FSBS06CLUALS001C185SA001P	1	185	21.9	0.0991	0.129	1875
FSBS06CLUALS001C240SA001P	1	240	24.7	0.0754	0.0988	2415
FSBS06CLUALS001C300SA001P	1	300	27.5	0.0601	0.0804	3000

POLYCAB IGNIS 240
Fire Survival Cable, 450/750 V AC

ELECTRICAL CHARACTERISTICS:

Current Carrying Capacity (Amperes) Air Ambient Temperature - 30°C Conductor operating Temperature - 90°C											
	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray etc horizontal or vertical etc) Touching			Reference Method G (in free air) Spaced by one cable diameter	
Conductor cross-sectional area	2 cables, single-phase AC or DC	3 or4 cables, three-phase AC	2 cables, single-phase AC or DC	3 or4 cables, three-phase AC	2 cables, single-phase AC or DC flat and touching	3 or4 cables, three-phase AC flat and touching or trefoil	2 cables, single-phase AC or DC flat	3 cables, three-phase AC flat	3 cables, three-phase AC trefoil	2 cables, single-phase AC or DC or 3 cables three-phase AC flat	
										Horizontal	Vertical
(mm^2)	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.
1.5	19	17	23	20	25	23	-	-	-	-	-
4	35	31	42	37	46	41	-	-	-	-	-
6	45	40	54	48	59	54	-	-	-	-	-
10	61	54	75	66	81	74	-	-	-	-	-
16	81	73	100	88	109	99	-	-	-	-	-
25	I06	95	133	117	143	130	161	141	135	182	161
35	131	117	164	144	176	161	200	176	169	226	201
50	158	141	198	175	228	209	242	216	207	275	246
70	200	179	253	222	293	268	310	279	268	353	318
95	241	216	306	269	355	326	377	342	328	430	389
120	278	249	354	312	413	379	437	400	383	500	454

150	318	285	393	342	476	436	504	464	444	577	527
185	362	324	449	384	545	500	575	533	510	661	605
240	424	380	528	450	644	590	679	634	607	781	719
300	486	435	603	514	743	681	783	736	703	902	833

The above table is in accordance with Table 4E1A 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