

# POLYCAT IGNIS 211

## Fire Survival Cable, 300/500 V AC

**POLYCAT**  
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

### APPLICATION

POLYCAT FS Multicore Shielded cable is suitable to use in various indoor & outdoor applications where control supply to the emergency devices during the event of fire, is highly essential and corrosive gas evaluation could be a cause of hazard to the people in high rise building, schools, hospitals, hotels, Malls, Subways etc.

### CHARACTERISTICS

#### Voltage Rating

300/500V AC

#### Operation Temperature

-40°C to +90°C

Short Circuit Temperature 250°C

#### Bending Radius

Min. 6 x Overall Diameter

#### Test Voltage

2000 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 insulation.
- Insulated Cores assembled together.
- Al.Mylar Tape Overall Shielded along with Drain wire
- Extruded LSZH Outer Sheath, Colour: Red or White(other colour as per request).

#### Core Identification

- 2 core: Brown, blue;
- 3 core: Brown, black, grey;
- 4 core: Blue, brown, black, grey;
- 5 core: green-and-yellow, blue, brown, black, grey;
- 7 cores: Centre- Brown, 1<sup>st</sup> layer: Brown, Black & remaining 4 cores white
- 12 cores: Centre- Brown, Black, White, 1<sup>st</sup> layer: Brown, Black & remaining 7 cores white
- 19 cores: Centre- Brown, 1<sup>st</sup> layer: Brown, Black & remaining 4 cores white, 2<sup>nd</sup> layer: Brown, Black & remaining 10 cores white

### OUTSTANDING FEATURES

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

### STANDARD FOLLOWS

EN 60228:2005

BS 7629-1:2015

### COMPLIANCE

Fire Resistant BS 7629-1 / BS 6387 CWZ /  
BS EN 50200 (PH 120) /  
BS 8434 / EN 60331-3

Flame Propagation EN 60332-1-2

Fire Retardant EN 60332-3-24 (Cat.C)

Halogen free material EN 60754-1

Smoke Density EN 61034-2

Toxicity NES 02-713

### OUR ACCREDITATIONS



### APPROVAL



**POLY CAB IGNIS 211**  
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**DIMENSIONS AND WEIGHTS:**

Product code	No. of Cores	Cross Sectional Area (mm <sup>2</sup> )	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Approx. Cable Weight Approx. (kg / km)
<b>Solid</b>					
FSBS04CLUALS002C1.0SA001P	2	1	0.6	7.9	80
FSBS04CLUALS002C1.5SA001P	2	1.5	0.7	8.8	105
FSBS04CLUALS002C2.5SA001P	2	2.5	0.8	10.1	145
FSBS04CLUALS003C1.0SA001P	3	1	0.6	8.4	100
FSBS04CLUALS003C1.5SA001P	3	1.5	0.7	9.3	130
FSBS04CLUALS003C2.5SA001P	3	2.5	0.8	10.8	185
FSBS04CLUALS004C1.0SA001P	4	1	0.6	9.3	125
FSBS04CLUALS004C1.5SA001P	4	1.5	0.7	10.4	165
FSBS04CLUALS004C2.5SA001P	4	2.5	0.8	12	230
FSBS04CLUALS007C1.0SA001P	7	1	0.6	11.1	180
FSBS04CLUALS007C1.5SA001P	7	1.5	0.7	12.6	245
FSBS04CLUALS007C2.5SA001P	7	2.5	0.8	14.5	340
FSBS04CLUALS012C1.0SA001P	12	1	0.6	14.9	300
FSBS04CLUALS012C1.5SA001P	12	1.5	0.7	16.8	395
FSBS04CLUALS012C2.5SA001P	12	2.5	0.8	20	570
FSBS04CLUALS019C1.0SA001P	19	1	0.6	17.4	440
FSBS04CLUALS019C1.5SA001P	19	1.5	0.7	19.8	595
<b>Stranded</b>					
FSBS04CLUALS002C1.0SA001P	2	1	0.6	8.2	85
FSBS04CLUALS002C1.5SA001P	2	1.5	0.7	9.2	110
FSBS04CLUALS002C2.5SA001P	2	2.5	0.8	10.7	150
FSBS04CLUALS002C4.0SA001P	2	4	0.8	11.9	210
FSBS04CLUALS003C1.0SA001P	3	1	0.6	9.7	110
FSBS04CLUALS003C1.5SA001P	3	1.5	0.7	9.8	135
FSBS04CLUALS003C2.5SA001P	3	2.5	0.8	11.3	190
FSBS04CLUALS003C4.0SA001P	3	4	0.8	12.7	270
FSBS04CLUALS004C1.0SA001P	4	1	0.6	9.7	135
FSBS04CLUALS004C1.5SA001P	4	1.5	0.7	10.9	170
FSBS04CLUALS004C2.5SA001P	4	2.5	0.8	12.6	245
FSBS04CLUALS004C4.0SA001P	4	4	0.8	14.1	340

**ELECTRICAL CHARACTERISTICS:**

Conductor cross sectional	Max. Conductor Resistance 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 E (free air or on a perforated cable tray etc, horizontal or vertical)
	at 20°C DC	at 90°C AC	1 two core cable*	3 or 4 core cables*	2 core cable*	3 or 4 core cable*	2 core cable*	3 or 4 core cable*	2 core cable*	3 or 4 core cable*	
			single phase a.c or d.c	three phase a.c	single phase a.c or d.c	three phase a.c	single phase a.c or d.c	three phase a.c	single phase a.c or d.c	three phase a.c	
(mm <sup>2</sup> )	(Ohm/km)		Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	
1	18.1	23.1	14.5	13	17	15	19	17	21	18	
1.5	12.1	15.4	18.5	16.5	22	19.5	24	22	26	23	
2.5	7.41	9.45	25	22	30	26	33	30	36	32	
4	4.61	5.88	33	30	40	35	45	40	49	42	

The above table is in accordance with Table 4E2A 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