



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAR 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, 1st layer: Brown, Black & remaining 4 cores white
- 12 cores: Centre- Brown, Black, White, 1st layer: Brown, Black & remaining 7 cores white
- 19 cores: Centre- Brown, 1st layer: Brown, Black & remaining 4 cores white, 2nd 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



DIMENSIONS AND WEIGHTS:

Product code	No. of Cores	Cross Sectional Area (mm ²)	Nom. Insulation Thickness (mm)	Nom. Cable Overall Dia. (mm)	Approx. Cable Weight Approx. (kg / km)
Solid					
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
Stranded					
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* single phase a.c or d.c	3 or 4 core cables* three phase a.c	2 core cable* single phase a.c or d.c	3 or 4 core cable* three phase a.c	2 core cable* single phase a.c or d.c	3 or 4 core cable* three phase a.c	2 core cable* single phase a.c or d.c	3 or 4 core cable* three phase a.c	
(mm ²)	(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