



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB FS-YL Multicore core Armoured cable is suitable to use in various indoor & outdoor applications where continuity of power supply during the event of fire, is highly essential and corrosive gas evaluation could be a cause of hazard to the people or the precision instruments in high rise building, schools, hospitals, hotels, Malls, Subways etc.

CHARACTERISTICS

Voltage Rating

0.6/1KV

Operation Temperature

-40°C to +90°C

Short Circuit Temperature 250°C

Bending Radius

Min. 12 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 XLPE insulation.
- Insulated Cores assembled together.
- FRLS PVC Inner Sheath.
- Galvanised Steel Round Wire Armoured. (also available with Galvanised Steel Flat Strip Armour, dimensions and weights changes accordingly)
- Extruded FRLS PVC Outer Sheath, Colour: Black. (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;
- Above 5 core can be supplied with number printing
- (All cores: optional number printing)

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 7846:2016

COMPLIANCE

| | |
|-----------------------|---|
| Fire Resistant | BS 7846-F2 / BS 6387 CWZ/ BS EN 50200 (PH 60) /BS 8434/ BS 8491 /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 200.
Fire Survival Cable, 600/1000 V AC

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DIMENSIONS AND WEIGHTS:

| Product Code | No. of Cores | Cross Sectional Area (mm ²) | Nom. Insulation Thickness (mm) | Nom. Dia over Armour (mm) | Nom. Cable Overall Dia. (mm) | Cable Weight Approx. (kg / km) |
|---------------------------|--------------|---|--------------------------------|---------------------------|------------------------------|--------------------------------|
| FSBS07CXSWLS002C1.5SA001P | 2 | 1.5 A) | 0.6 | 10.9 | 13.5 | 340 |
| FSBS07CXSWLS002C2.5SA001P | 2 | 2.5 A) | 0.7 | 12.1 | 14.9 | 410 |
| FSBS07CXSWLS002C004SA001P | 2 | 4 A) | 0.7 | 13.2 | 16 | 470 |
| FSBS07CXSWLS002C006SA001P | 2 | 6 A) | 0.7 | 14.3 | 17.2 | 540 |
| FSBS07CXSWLS002C010SA001P | 2 | 10 A) | 0.7 | 16.2 | 19.2 | 690 |
| FSBS07CXSWLS002C016SA001P | 2 | 16 A) | 0.7 | 19 | 22 | 1010 |
| FSBS07CXSWLS002C025SA001P | 2 | 25 A) | 0.9 | 22.4 | 25.7 | 1330 |
| FSBS07CXSWLS002C025SA001P | 2 | 25 B) | 0.9 | 18.7 | 22 | 1170 |
| FSBS07CXSWLS002C035SA001P | 2 | 35 A) | 0.9 | 25.8 | 29.2 | 1830 |
| FSBS07CXSWLS002C035SA001P | 2 | 35 B) | 0.9 | 21.4 | 25 | 1590 |
| FSBS07CXSWLS002C050SA001P | 2 | 50 B) | 1 | 24 | 27.8 | 2030 |
| FSBS07CXSWLS002C070SA001P | 2 | 70 B) | 1.1 | 26.8 | 30.8 | 2550 |
| FSBS07CXSWLS002C095SA001P | 2 | 95 B) | 1.1 | 30.4 | 34.6 | 3420 |
| FSBS07CXSWLS002C120SA001P | 2 | 120 B) | 1.2 | 32.1 | 36.5 | 4020 |
| FSBS07CXSWLS002C150SA001P | 2 | 150 B) | 1.4 | 35.1 | 39.7 | 4780 |
| FSBS07CXSWLS002C185SA001P | 2 | 185 B) | 1.6 | 39.7 | 44.7 | 6100 |
| FSBS07CXSWLS002C240SA001P | 2 | 240 B) | 1.7 | 43.3 | 48.6 | 7410 |
| FSBS07CXSWLS002C300SA001P | 2 | 300 B) | 1.8 | 47.4 | 52.8 | 8890 |
| FSBS07CXSWLS002C400SA001P | 2 | 400 B) | 2 | 51.7 | 57.6 | 10660 |
| FSBS07CXSWLS003C1.5SA001P | 3 | 1.5 A) | 0.6 | 11.5 | 14.1 | 385 |
| FSBS07CXSWLS003C2.5SA001P | 3 | 2.5 A) | 0.7 | 12.8 | 15.6 | 470 |
| FSBS07CXSWLS003C004SA001P | 3 | 4 A) | 0.7 | 14 | 16.8 | 550 |
| FSBS07CXSWLS003C004SA001P | 3 | 4 A)C) | 0.7 | 14.7 | 17.5 | 655 |
| FSBS07CXSWLS003C006SA001P | 3 | 6 A) | 0.7 | 15.2 | 18 | 650 |
| FSBS07CXSWLS003C006SA001P | 3 | 6 A)C) | 0.7 | 15.9 | 18.7 | 760 |
| FSBS07CXSWLS003C010SA001P | 3 | 10 A) | 0.7 | 17.9 | 20.9 | 970 |
| FSBS07CXSWLS003C016SA001P | 3 | 16 A) | 0.7 | 20.2 | 23.4 | 1250 |
| FSBS07CXSWLS003C025SA001P | 3 | 25 A) | 0.9 | 25 | 28.4 | 1890 |
| FSBS07CXSWLS003C025SA001P | 3 | 25 B) | 0.9 | 21.5 | 24.9 | 1700 |
| FSBS07CXSWLS003C035SA001P | 3 | 35 A) | 0.9 | 27.5 | 31 | 2300 |
| FSBS07CXSWLS003C035SA001P | 3 | 35 B) | 0.9 | 23.3 | 26.9 | 2070 |

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| Product Code | No. of Cores | Cross Sectional Area (mm ²) | Nom. Insulation Thickness (mm) | Nom. Dia over Armour (mm) | Nom. Cable Overall Dia. (mm) | Cable Weight Approx. (kg / km) |
|---------------------------|--------------|---|--------------------------------|---------------------------|------------------------------|--------------------------------|
| FSBS07CXSWLS003C050SA001P | 3 | 50 B) | 1 | 26.2 | 30 | 2660 |
| FSBS07CXSWLS003C070SA001P | 3 | 70 B) | 1.1 | 29.3 | 33.1 | 3400 |
| FSBS07CXSWLS003C095SA001P | 3 | 95 B) | 1.1 | 33.3 | 37.6 | 4580 |
| FSBS07CXSWLS003C120SA001P | 3 | 120 B) | 1.2 | 36 | 40.5 | 5470 |
| FSBS07CXSWLS003C150SA001P | 3 | 150 B) | 1.4 | 40.5 | 45.1 | 6950 |
| FSBS07CXSWLS003C185SA001P | 3 | 185 B) | 1.6 | 44.6 | 49.4 | 8300 |
| FSBS07CXSWLS003C240SA001P | 3 | 240 B) | 1.7 | 48.9 | 54.1 | 10210 |
| FSBS07CXSWLS003C300SA001P | 3 | 300 B) | 1.8 | 53.5 | 58.9 | 12350 |
| FSBS07CXSWLS003C400SA001P | 3 | 400 B) | 2 | 58.6 | 64.4 | 14890 |
| FSBS07CXSWLS004C1.5SA001P | 4 | 1.5 A) | 0.6 | 12.5 | 15.1 | 435 |
| FSBS07CXSWLS004C2.5SA001P | 4 | 2.5 A) | 0.7 | 14 | 16.7 | 530 |
| FSBS07CXSWLS004C004SA001P | 4 | 4 A) | 0.7 | 15.3 | 18.1 | 640 |
| FSBS07CXSWLS004C006SA001P | 4 | 6 A) | 0.7 | 17.3 | 20.3 | 890 |
| FSBS07CXSWLS004C010SA001P | 4 | 10 A) | 0.7 | 19.6 | 22.6 | 1140 |
| FSBS07CXSWLS004C016SA001P | 4 | 16 A) | 0.7 | 22.1 | 25.3 | 1470 |
| FSBS07CXSWLS004C025SA001P | 4 | 25 A) | 0.9 | 27.4 | 30.8 | 2250 |
| FSBS07CXSWLS004C025SA001P | 4 | 25 B) | 0.9 | 24.7 | 28.1 | 2100 |
| FSBS07CXSWLS004C035SA001P | 4 | 35 A) | 0.9 | 30.2 | 33.7 | 2780 |
| FSBS07CXSWLS004C035SA001P | 4 | 35 B) | 0.9 | 27 | 30.6 | 2580 |
| FSBS07CXSWLS004C050SA001P | 4 | 50 B) | 1 | 30.6 | 34.4 | 3360 |
| FSBS07CXSWLS004C070SA001P | 4 | 70 B) | 1.1 | 35.7 | 40 | 4680 |
| FSBS07CXSWLS004C095SA001P | 4 | 95 B) | 1.1 | 39.3 | 43.7 | 5840 |
| FSBS07CXSWLS004C120SA001P | 4 | 120 B) | 1.2 | 43.1 | 47.7 | 7420 |
| FSBS07CXSWLS004C150SA001P | 4 | 150 B) | 1.4 | 47.2 | 52 | 8910 |
| FSBS07CXSWLS004C185SA001P | 4 | 185 B) | 1.6 | 51.6 | 56.8 | 10620 |
| FSBS07CXSWLS004C240SA001P | 4 | 240 B) | 1.7 | 57.1 | 62.5 | 13130 |
| FSBS07CXSWLS004C300SA001P | 4 | 300 B) | 1.8 | 62.3 | 68 | 15890 |
| FSBS07CXSWLS004C400SA001P | 4 | 400 B) | 2 | 70 | 76.4 | 20250 |
| FSBS07CXSWLS005C1.5SA001P | 5 | 1.5 | 0.6 | 13.5 | 16.3 | 495 |
| FSBS07CXSWLS005C2.5SA001P | 5 | 2.5 | 0.7 | 15.2 | 18 | 605 |
| FSBS07CXSWLS005C004SA001P | 5 | 4 | 0.7 | 16.6 | 19.7 | 740 |
| FSBS07CXSWLS005C004SA001P | 5 | 4 A) | 0.7 | 17.3 | 20.4 | 860 |

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| Product Code | No. of Cores | Cross Sectional Area (mm ²) | Nom. Insulation Thickness (mm) | Nom. Dia over Armour (mm) | Nom. Cable Overall Dia. (mm) | Cable Weight Approx. (kg / km) |
|---------------------------|--------------|---|--------------------------------|---------------------------|------------------------------|--------------------------------|
| FSBS07CXSWLS005C006SA001P | 5 | 6 | 0.7 | 18.9 | 21.9 | 1020 |
| FSBS07CXSWLS005C010SA001P | 5 | 10 | 0.7 | 21.4 | 24.6 | 1330 |
| FSBS07CXSWLS005C016SA001P | 5 | 16 | 0.7 | 25.3 | 28.7 | 1950 |
| FSBS07CXSWLS005C025SA001P | 5 | 25 | 0.9 | 30 | 33.6 | 2650 |
| FSBS07CXSWLS005C035SA001P | 5 | 35 | 0.9 | 33 | 36.9 | 3280 |
| FSBS07CXSWLS005C050SA001P | 5 | 50 | 1 | 39.1 | 43 | 4640 |
| FSBS07CXSWLS005C070SA001P | 5 | 70 | 1.1 | 43.8 | 48.2 | 5840 |
| FSBS07CXSWLS007C1.5SA001P | 7 | 1.5 | 0.6 | 14.6 | 17.5 | 580 |
| FSBS07CXSWLS007C1.5SA001P | 7 | 1.5 A) | 0.6 | 15.3 | 18.2 | 690 |
| FSBS07CXSWLS012C1.5SA001P | 12 | 1.5 | 0.6 | 19.7 | 22.7 | 990 |
| FSBS07CXSWLS019C1.5SA001P | 19 | 1.5 | 0.6 | 22.8 | 26.1 | 1300 |
| FSBS07CXSWLS027C1.5SA001P | 27 | 1.5 | 0.6 | 28.2 | 31.7 | 1920 |
| FSBS07CXSWLS037C1.5SA001P | 37 | 1.5 | 0.6 | 31.4 | 34.9 | 2315 |
| FSBS07CXSWLS007C2.5SA001P | 7 | 2.5 | 0.7 | 16.5 | 19.3 | 720 |
| FSBS07CXSWLS007C2.5SA001P | 7 | 2.5 A) | 0.7 | 17.2 | 20 | 840 |
| FSBS07CXSWLS012C2.5SA001P | 12 | 2.5 | 0.7 | 22.2 | 25.5 | 1230 |
| FSBS07CXSWLS019C2.5SA001P | 19 | 2.5 | 0.7 | 27 | 30.5 | 1860 |
| FSBS07CXSWLS027C2.5SA001P | 27 | 2.5 | 0.7 | 32 | 36.7 | 2410 |
| FSBS07CXSWLS037C2.5SA001P | 37 | 2.5 | 0.7 | 35.7 | 39.4 | 2970 |
| FSBS07CXSWLS007C004SA001P | 7 | 4 | 0.7 | 18.8 | 21.8 | 1020 |
| FSBS07CXSWLS012C004SA001P | 12 | 4 | 0.7 | 25.6 | 28.8 | 1725 |
| FSBS07CXSWLS019C004SA001P | 19 | 4 | 0.7 | 29.7 | 33.2 | 2300 |
| FSBS07CXSWLS027C004SA001P | 27 | 4 | 0.7 | 35.3 | 39.2 | 3025 |
| FSBS07CXSWLS037C004SA001P | 37 | 4 | 0.7 | 40.7 | 44.8 | 4140 |

Note:

- A) Circular or compacted circular stranded conductor (Class 2).
- B) Shaped stranded conductor (Class 2).

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ELECTRICAL CHARACTERISTICS:

| Conductor cross-sectional area | Current Carrying Capacity (Amperes) | | | | | | | |
|--------------------------------|-------------------------------------|---|---|---|--|---|---|------|
| | Max. Conductor Resistance | | Reference Method C (clipped direct) | | Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical) | | Reference Method D (direct in ground or in ducting in ground, in or around buildings) | |
| at 20°C DC | at 90°C AC | 1 two-core cable, single-phase AC or DC | 1 three- or 1 four-core cable, three-phase AC | 1 two-core cable, single-phase AC or DC | 1 three- or 1 four-core cable, three-phase AC | 1 two-core cable, single-phase AC or DC | 1 three- or 1 four-core cable, three-phase AC | |
| mm ² | Ohm/km | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. | Amp. |
| 1.5 | 12.1 | 15.4 | 27 | 23 | 29 | 25 | 25 | 21 |
| 2.5 | 7.41 | 9.45 | 36 | 31 | 39 | 33 | 33 | 28 |
| 4 | 4.61 | 5.88 | 49 | 42 | 52 | 44 | 43 | 36 |
| 6 | 3.08 | 3.93 | 62 | 53 | 66 | 56 | 53 | 44 |
| 10 | 1.83 | 2.33 | 85 | 73 | 90 | 78 | 71 | 58 |
| 16 | 1.15 | 1.47 | 110 | 94 | 115 | 99 | 91 | 75 |
| 25 | 0.727 | 0.927 | 146 | 124 | 152 | 131 | 116 | 96 |
| 35 | 0.524 | 0.668 | 180 | 154 | 188 | 162 | 139 | 115 |
| 50 | 0.387 | 0.493 | 219 | 187 | 228 | 197 | 164 | 135 |
| 70 | 0.268 | 0.342 | 279 | 238 | 291 | 251 | 203 | 167 |
| 95 | 0.193 | 0.246 | 338 | 289 | 354 | 304 | 239 | 197 |
| 120 | 0.153 | 0.195 | 392 | 335 | 410 | 353 | 271 | 223 |
| 150 | 0.124 | 0.158 | 451 | 386 | 472 | 406 | 306 | 251 |
| 185 | 0.0991 | 0.126 | 515 | 441 | 539 | 463 | 343 | 281 |

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|-----|--------|--------|-----|-----|-----|-----|-----|-----|
| 240 | 0.0754 | 0.0961 | 607 | 520 | 636 | 546 | 395 | 324 |
| 300 | 0.0601 | 0.0766 | 698 | 599 | 732 | 628 | 446 | 365 |
| 400 | 0.047 | 0.0599 | 787 | 673 | 847 | 728 | - | - |

The above table is in accordance with Table 4E4A 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 |

Current rating de-rating factors for other than 20°C ground temperature.

| Air Temperature | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| De-rating factor | 1.07 | 1.04 | 1.00 | 0.96 | 0.93 | 0.89 | 0.85 | 0.80 | 0.76 | 0.71 | 0.65 | 0.60 | 0.53 | 0.46 | 0.38 |