

**TITLE:**

SFX100 Coaxial

**CODE:**

SFX/100-STD-PVC-BLK-100

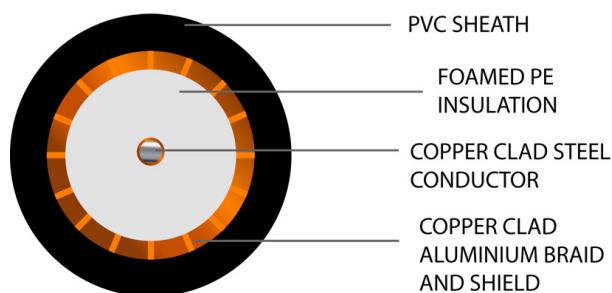
**DESCRIPTION:**

100m SFX100 Coaxial Standard Black PVC

**SUPPLIED AS:**

Reel of 100m

- High frequency, low loss cable, designed to carry CCTV, TV and Satellite Signals
- Manufactured with gas injected foam granting the cable a much better mechanical, electrical and ageing performance compared to a solid PE dielectric
- Polyvinyl chloride plastic has excellent aging properties and will usually exceed a 25-30 year service life
- This family of cable contains both a foil and braided screen, enhancing performance and reducing interference
- Improved performance and protection against fire



enquiries@securiflex.co.uk | www.securiflex.co.uk | 03333 44 66 23



# Product Specification



## Cable Construction

|                          |  |
|--------------------------|--|
| CPR                      | Eca  |
| Conductor Diameter (mm)  | 1.02 ±0.01                                     |
| Inner Conductor          | Copper Clad Steel                              |
| Overall Diameter (mm)    | 6.60 ±0.20                                     |
| Compliance and Standards | CE2014/30/EU, RoHS2 2011/65/EU, LVD 2014/35/EU |

## Insulation

|                           |            |
|---------------------------|------------|
| Insulation                | Foamed PE  |
| Insulation Colour         | White      |
| Insulation Thickness (mm) | 1.79 ±0.01 |

## Outer/Jacket Specification

|                       |                |
|-----------------------|----------------|
| Jacket                | PVC            |
| Overall Colour        | Black          |
| Overall Diameter (mm) | 6.60 ±0.20     |
| Jacket Colour         | Black RAL 9005 |
| Jacket Thickness (mm) | 1.23           |

## Electrical Characteristics

|                                      |               |
|--------------------------------------|---------------|
| Outer Conductor DC resistance @ 20°C | <450/km       |
| Rated Temperature (°C)               | -20°C to 80°C |
| Impedance                            | 75Ω ±30       |
| Capacitance                          | >52 nF/km     |



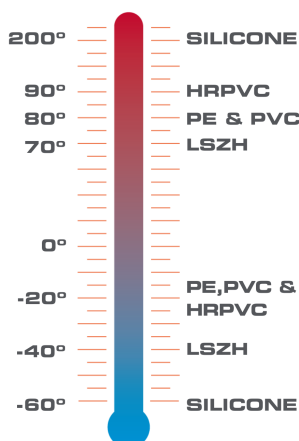
enquiries@securiflex.co.uk | www.securiflex.co.uk | 03333 44 66 23



## MORE INFORMATION:

| EURO CLASS<br>(ca: cable)        | CLASSIFICATION CRITERIA   |  | CPR GUIDE   |   |
|----------------------------------|---|--|---|---|
|                                  | FIRE RATING   | SFX COMMENT  |   |   |
| Reaction to Fire BS EN ISO 1716  |   |  | SUBCLASSIFICATIONS FOR EUROCLASSES B <sub>ca</sub> to D <sub>ca</sub>   |   |
| <b>A<sub>ca</sub></b>            | Does not contribute to the fire                                       | Due to availability, it will be almost impossible for a cable to meet A <sub>ca</sub> , so they should only be specified with extreme caution.   | <b>(S) SMOKE PRODUCTION</b>   | <b>(D) FLAMING DROPLETS</b>   |
| Reaction to Fire BS EN 50399     |   |  | BS EN 50399/BS EN 61034-2   | BS EN 50399   |
| <b>B1<sub>ca</sub></b>           | Minimum contribution to the fire                                      | It's highly unlikely the commonly-used cables will be classified to Class B1 <sub>ca</sub> .   | s1a: s1 + transmittance >=80% (BS EN 61034-2)   | d0: No fall of droplets or flaming particles, times for 1200 seconds                                    |
| <b>B2<sub>ca</sub></b>           | Combustible, low flame spread & heat release contribution to the fire | Similar to Class C <sub>ca</sub> , although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.   | s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)  | d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds |
| <b>C<sub>ca</sub></b>            | Combustible, moderate flame spread & heat release                     | This is a more rigorous test than Class D <sub>ca</sub> , this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class C <sub>ca</sub> though availability is improving. | s1: Low production of slow propagation of smoke   | a1: Very low acidity (conductivity <2.5 μS/mm & pH >4.3)  |
| <b>D<sub>ca</sub></b>            | Combustible, moderate flame spread & heat release                     | This classification has relatively little use or acceptance within specifying/contracting organisations. This is because no large scale fire growth is measured.   | s2: Intermediate production & propagation of smoke  | a2: low acidity (conductivity <10 μS/mm & pH >4.3)  |
| Reaction to Fire BS EN 60332-1-2 |   |  | s3: None of the above   | d2: None of the above   |
| <b>E<sub>ca</sub></b>            | Combustible, limited fire spread of less than 425mm                   | A basic test for vertical flame propagation for a single insulated wire or cable using a 1 KW pre-mixed flame. Note: This test does not measure heat release, toxic fumes or smoke.  | Visit us online: <a href="http://www.securiflex.co.uk">www.securiflex.co.uk</a> The Trusted Cable Brand   |   |
| <b>F<sub>ca</sub></b>            | Combustible, fire spread of more than 425mm                           | Cables classified to Class F <sub>ca</sub> may have high levels of flammability due to the materials they are made of. This does not mean that the cable cannot be used, it is more likely to be used external.              | Classes A to E have to be tested by an independent authorised laboratory. Most cables will fall into classes B2 <sub>ca</sub> to E <sub>ca</sub> . For a cable to meet A <sub>ca</sub> , B1 <sub>ca</sub> , B2 <sub>ca</sub> or C <sub>ca</sub> , there also needs to be regular on-going factory audits. |   |

## OUR OPERATING TEMPERATURE RANGE GUIDE



enquiries@securiflex.co.uk | www.securiflex.co.uk | 03333 44 66 23