# COAX CABLE

## Securi-Flex®

**TITLE:**
SFX Low Loss Coax PE

**CODE:**
SFX/125-PE-BLK-100

**DESCRIPTION:**
100m SFX125 Coaxial Black PE

**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

- Polyethylene plastic is excellent for use externally above ground or below ground inside ducting

- This family of cable contains both a foil and braided screen, enhancing performance and reducing interference

- UV resistant

FLAME-FLEX®  Drum-Roll  LUCKINS™  epim  ELECTRICAL DISTRIBUTORS' ASSOCIATION  BASEC  KNX MEMBER  cai  CPR  UKCA

# Securi-Flex®

# Product Specification

25-YEAR WARRANTY

## Cable Construction

| | |
|---|---|
| CPR | Fca |
| Conductor Diameter (mm) | 1.25 ±0.01 |
| Inner Conductor | Bare Copper |
| Overall Diameter (mm) | 8.00 ±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) | 1.18 ±0.01 |

## Outer/Jacket Specification

| | |
|---|---|
| Jacket | PE |
| Overall Colour | Black |
| Overall Diameter (mm) | 8.00 ±0.20 |
| Jacket Colour | Black RAL 9005 |
| Jacket Thickness (mm) | 1.05 ±0.10 |

## Electrical Characteristics

| | |
|---|---|
| Outer Conductor DC resistance @ 20°C | <45O/km |
| Rated Temperature (°C) | -20°C to 80°C |

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## MORE INFORMATION:

| EURO CLASS (ca:cable) | CLASSIFICATION CRITERIA | |
|---|---|---|
| | FIRE RATING | SFX COMMENT |
| **Reaction to Fire BS EN ISO 1716** | | |
| **A**$_{ca}$ | Does not contribute to the fire | Due to availability, it will be almost impossible for a cable to meet Aca, so they should only be specified with extreme caution. |
| **Reaction to Fire BS EN 50399** | | |
| **B1**$_{ca}$ | Minimum contribution to the fire | It's highly unlikely the commonly-used cables will be classified to Class B1ca. |
| **B2**$_{ca}$ | Combustible, low flame spread & heat release contribution to the fire | Similar to Class Cca, although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet. |
| **C**$_{ca}$ | Combustible, moderate flame spread & heat release | This is a more rigorous test than Class Dca, this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class Cca though availability is improving. |
| **D**$_{ca}$ | 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. |
| **Reaction to Fire BS EN 60332-1-2** | | |
| **E**$_{ca}$ | 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. |
| **F**$_{ca}$ | Combustible, fire spread of more than 425mm | Cables classified to Class Fca 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. |

### CPR GUIDE — Securi-Flex®

**SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca**

| (S) SMOKE PRODUCTION | (D) FLAMING DROPLETS | (A) SMOKE ACIDITY |
|---|---|---|
| BS EN 50399/BS EN 61034-2 | BS EN 50399 | BS EN 60754-2 |
| s1a: s1 + transmittance >=80% (BS EN 61034-2) | d0: No fall of droplets or flaming particles, times for 1200 seconds | a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3) |
| 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 | a2: low acidity (conductivity <10 µS/mm & pH >4.3) |
| s1: Low production of slow propagation of smoke | | |
| s2: Intermediate production & propagation of smoke | | |
| s3: None of the above | d2: None of the above | d2: None of the above |

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www.securiflex.co.uk

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Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

## OUR OPERATING TEMPERATURE RANGE GUIDE

| | |
|---|---|
| 200° | SILICONE |
| 90° | HRPVC |
| 80° | PE & PVC |
| 70° | LSZH |
| 0° | |
| -20° | PE,PVC & HRPVC |
| -40° | LSZH |
| -60° | SILICONE |

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