



## TITLE:

RG59 Coaxial Cable

## CODE:

SFX/59-PREM-LSZH-D-BLK-1

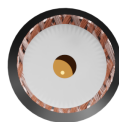
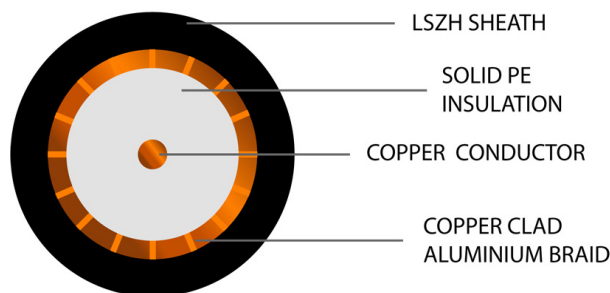
## DESCRIPTION:

1m (per metre) RG59 Coaxial Dca  
Premium Black UV LSZH

## SUPPLIED AS:

Per 1m Lengths

- Even with the introduction of IP cameras, coax is still a preferred choice for many installers in the security industry
- Coax is a simple solution that does not require any additional products such as baluns to create an image
- Low smoke zero halogen plastic is good for use inside public buildings and spaces as will not emit toxic gases if the cable catches fire
- Suitable for general purpose CCTV applications and high frequency signal transmission
- Improved performance and protection against fire
- Minimal signal degradation





# Product Specification



## Cable Construction

|                          |                                              |
|--------------------------|----------------------------------------------|
| Cable Construction       | 19 Strands                                   |
| CPR                      | Dca -s:1b -a:1 -d:2                          |
| Conductor                | Bare Copper                                  |
| Conductor Diameter (mm)  | 0.58 ±0.008                                  |
| Inner Conductor          | Bare Copper                                  |
| Overall Diameter (mm)    | 6.10 ±0.10                                   |
| Compliance and Standards | CE2014/30/EU,RoHS2 2011/65/EU,LVD 2014/35/EU |

## Insulation

|                           |            |
|---------------------------|------------|
| Insulation                | Solid PE   |
| Insulation Colour         | Clear      |
| Insulation Thickness (mm) | 1.60 ±0.01 |

## Outer/Jacket Specification

|                       |                |
|-----------------------|----------------|
| Jacket                | UV LSZH        |
| Overall Colour        | Black          |
| Overall Diameter (mm) | 6.10 ±0.10     |
| Jacket Colour         | Black RAL 9005 |
| Jacket Thickness (mm) | 0.85 ±0.10     |

## Electrical Characteristics

|                                      |               |
|--------------------------------------|---------------|
| Max Conductor DC resistance @ 20°C   | <65Ω/km       |
| Outer Conductor DC resistance @ 20°C | <420/km       |
| Rated Temperature (°C)               | -40°C to 70°C |
| Impedance                            | 75Ω ±30       |
| Capacitance                          | >67nF/km      |

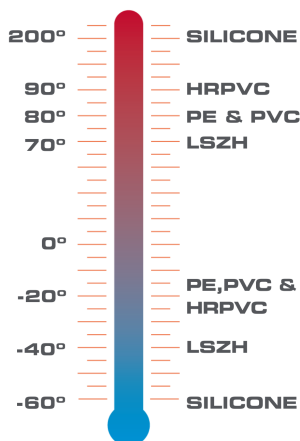




## MORE INFORMATION:

| EURO CLASS<br>(ca: cable)        | CLASSIFICATION CRITERIA                                               |                                                                                                                                                                                                                              | CPR GUIDE                                                                                                                                                                                                                                                                                                 |                                                                                                         |                                                          |
|----------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
|                                  | FIRE RATING                                                           | SFX COMMENT                                                                                                                                                                                                                  | Securi-Flex®                                                                                                                                                                                                                                                                                              |                                                                                                         |                                                          |
| 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>                                                                             | <b>(A) SMOKE ACIDITY</b>                                 |
| Reaction to Fire BS EN 50399     |                                                                       |                                                                                                                                                                                                                              | BS EN 50399/BS EN 61034-2                                                                                                                                                                                                                                                                                 | BS EN 50399                                                                                             | BS EN 60754-2                                            |
| <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                                    | a1: Very low acidity (conductivity <2.5 μS/mm & pH >4.3) |
| <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 | a2: low acidity (conductivity <10 μS/mm & pH >4.3)       |
| <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                                                                                                                                                                                                                                                           |                                                                                                         |                                                          |
| <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                                                                                                                                                                                                                                                        |                                                                                                         |                                                          |
|                                  |                                                                       |                                                                                                                                                                                                                              | s3: None of the above                                                                                                                                                                                                                                                                                     | d2: None of the above                                                                                   | d2: None of the above                                    |
| Reaction to Fire BS EN 60332-1-2 |                                                                       |                                                                                                                                                                                                                              | Visit us online: <a href="http://www.securiflex.co.uk">www.securiflex.co.uk</a> The Trusted Cable Brand                                                                                                                                                                                                   |                                                                                                         |                                                          |
| <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.                                          | 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. |                                                                                                         |                                                          |
| <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.              |                                                                                                                                                                                                                                                                                                           |                                                                                                         |                                                          |

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