

**TITLE:**

YY Control Flex LSZH

**CODE:**

SFX/YY-3C-1.0-LSZH-GRY-NBR-U-100

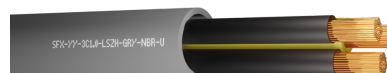
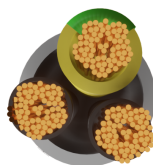
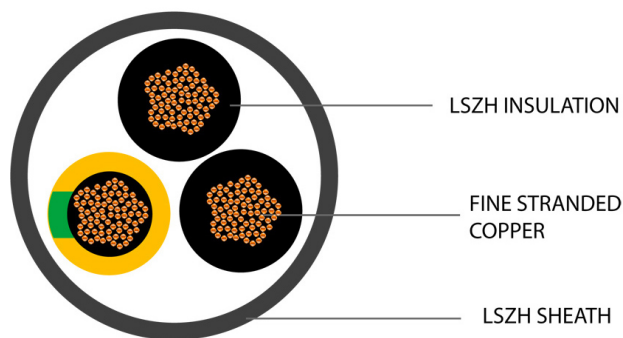
**DESCRIPTION:**

100m YY Control Flex 3 Core 1mm Grey  
LSZH Numbered Cores

**SUPPLIED AS:**

Reel of 100m

- Works well in high mechanical stress areas
- Good for installations requiring high flexibility
- 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
- Widely seen in industrial buildings but can also be used domestically
- Improved performance and protection against fire
- Can be used externally if protected correctly





## Product Specification

### Cable Construction

|                         |                                |
|-------------------------|--------------------------------|
| Cable Construction      | 3 Cores                        |
| CPR                     | Cca -s1a -a1 -d1               |
| Conductor               | Fine Stranded Copper (Class 5) |
| Conductor Diameter (mm) | 1.00                           |
| Overall Diameter (mm)   | 6.50                           |

### Insulation

|                   |                      |
|-------------------|----------------------|
| Insulation        | LSZH                 |
| Insulation Colour | Black numbered cores |

### Outer/Jacket Specification

|                       |      |
|-----------------------|------|
| Jacket                | LSZH |
| Overall Colour        | Grey |
| Overall Diameter (mm) | 6.50 |
| Jacket Colour         | Grey |

### Electrical Characteristics

|                                    |           |
|------------------------------------|-----------|
| Max Conductor DC resistance @ 20°C | 19.50Ω/km |
| Rated Voltage (V)                  | 300/500V  |





## 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  | 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.              |   |   |  |

## OUR OPERATING TEMPERATURE RANGE GUIDE



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