

**TITLE:**

Alarm Type 2 Copper Direct Burial

**CODE:**

SFX/8C-TY2-DB-BLK-1000

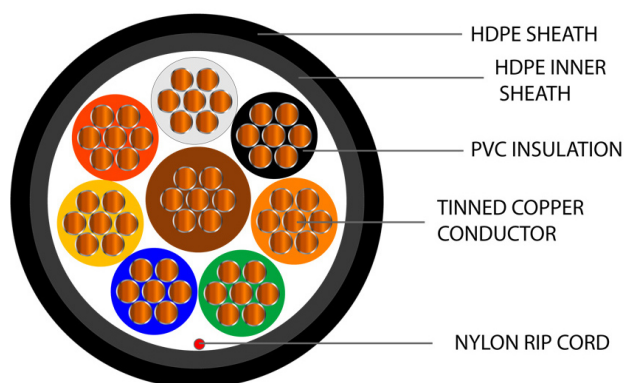
**DESCRIPTION:**

1000m 8 Core Type 2 Alarm Direct Burial  
Black HDPE

**SUPPLIED AS:**

Reel of 1000m

- Generally used for connecting alarm equipment such as sensors, control panels and other low voltage circuits
- This cable is ROHS compliant
- High density polyethylene is the most environmentally stable plastic
- A premium alarm cable conforming to BS4737
- An outdoor rated cable designed to be buried under ground without a need for conduit or ducting
- Can be cut to any length required saving installation time



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# Product Specification

25-YEAR WARRANTY

## Cable Construction

|                          |                                   |
|--------------------------|-----------------------------------|
| Cable Construction       | 8 Cores                           |
| CPR                      | Fca                               |
| Conductor                | Tinned Copper                     |
| Conductor Diameter (mm)  | 0.19 ±0.008 x 7                   |
| Stranded Diameter (mm)   | 0.22                              |
| Overall Diameter (mm)    | 4.20 ±0.200                       |
| Compliance and Standards | BS4737-3.30:2015,RoHS2 2011/65/EU |

## Insulation

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Insulation                  | HDPE                                           |
| Insulation Colour           | Red,Black,Blue,Yellow,Green,White,Orange,Brown |
| Insulation Resistance @20°C | >200 MO/km                                     |
| Insulation Thickness (mm)   | 0.21                                           |

## Outer/Jacket Specification

|                             |                |
|-----------------------------|----------------|
| Outer Jacket                | HDPE           |
| Outer Jacket Colour         | Black RAL 9005 |
| Inner Jacket                | HDPE           |
| Inner Jacket Colour         | Black RAL 9005 |
| Inner Jacket Diameter (mm)  | 4.20 ±0.100    |
| Inner Jacket Thickness (mm) | 0.6            |
| Jacket                      | PE             |
| Overall Colour              | Black          |
| Overall Diameter (mm)       | 4.20 ±0.200    |
| Jacket Colour               | Black RAL 9005 |
| Nylon Rip-Cord              | Red 210D       |

## Electrical Characteristics

|                                    |               |
|------------------------------------|---------------|
| Insulation Resistance @20°C        | >200 MO/km    |
| Max Conductor DC resistance @ 20°C | 100O/km       |
| Rated Temperature (°C)             | -20°C to 80°C |
| Rated Voltage (V)                  | 30V           |

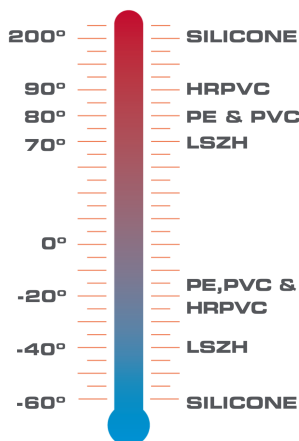
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## MORE INFORMATION:

| 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.              |                                                                                                                                                                                                                                                                                                           |                                                                                                         |                                                          |

## OUR OPERATING TEMPERATURE RANGE GUIDE



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