



# FLEXIBLE POWER CABLE



Flexible power cable

## TITLE:

6242Y Twin & Earth PVC

## CODE:

SFX/6242Y-1.0-PVC-GRY-U-100

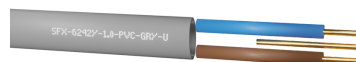
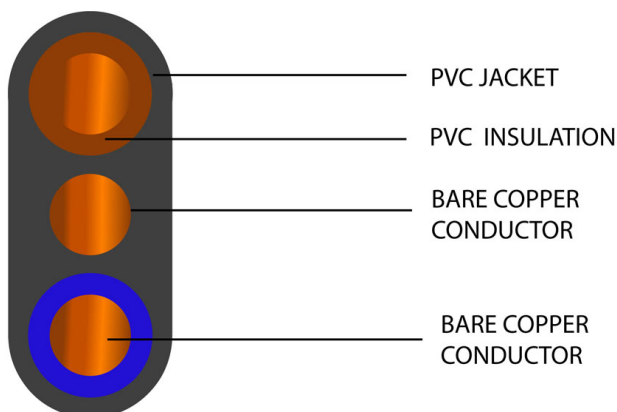
## DESCRIPTION:

100m 6242Y Twin and Earth 1.0mm Grey PVC (H07VV-U 2X1.0)

## SUPPLIED AS:

Reel of 100m

- Used to connect appliances to mains electricity supplies
- Can be used in light duty domestic and office wiring applications
- Polyvinyl chloride plastic has excellent aging properties and will usually exceed a 25-30 year service life
- Conforms to European Harmonisation Standards
- Improved performance and protection against fire
- Stable, flexible durable and robust cable



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## Product Specification

### Cable Construction

|                       |                   |
|-----------------------|-------------------|
| Cable Construction    | 2 Insulated Cores |
| CPR                   | Eca               |
| Conductor             | Solid copper      |
| Conductor 2           | Solid copper      |
| Overall Diameter (mm) | 4.4 x 7.8         |

### Insulation

|                   |            |
|-------------------|------------|
| Insulation        | PVC        |
| Insulation Colour | Blue,Brown |

### Outer/Jacket Specification

|                       |           |
|-----------------------|-----------|
| Jacket                | PVC       |
| Overall Colour        | Grey      |
| Overall Diameter (mm) | 4.4 x 7.8 |
| Jacket Colour         | Grey      |

### Electrical Characteristics

|                                    |           |
|------------------------------------|-----------|
| Max Conductor DC resistance @ 20°C | 18.100/km |
| Rated Voltage (V)                  | 300/500V  |





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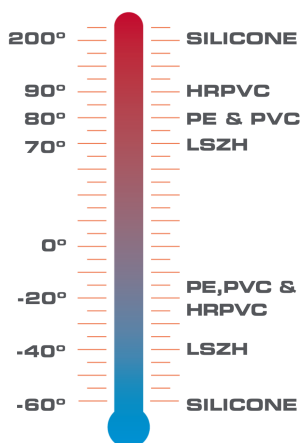


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## MORE INFORMATION:

| 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>                                                                             |
| 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> |                                                                                                         |
| <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.              | The Trusted Cable Brand                                                         |                                                                                                         |

## OUR OPERATING TEMPERATURE RANGE GUIDE



Securi-Flex®

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