

### **FLEXIBLE POWER**



#### TITLE:

3182Y Flex Power PVC (Round)

#### CODE:

SFX/3182Y-2C-1.0-PVC-BLK-U-100

#### **DESCRIPTION:**

100m 3182Y 1.0mm Flex Black PVC (H05VV-F 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

































## FLEXIBLE POWER CABLE



### **Product Specification**

#### **Cable Construction**

Cable Construction	2 Cores
CPR	Eca
Conductor	Fine Stranded Copper (Class 5)
Overall Diameter (mm)	6.30

#### Insulation

Insulation	PVC	
Insulation Colour	Blue.Brown	

#### **Outer/Jacket Specification**

Jacket	PVC	
Overall Colour	Black	
Overall Diameter (mm)	6.30	
Overall Blameter (mm)	0.00	
Jacket Colour	Black	
Jacket Coloui	DidCk	

#### **Electrical Characteristics**

Max Conductor DC resistance @ 20°C	19.50O/km
Rated Temperature (°C)	-20°C to +80°C
Rated Voltage (V)	300/500V





















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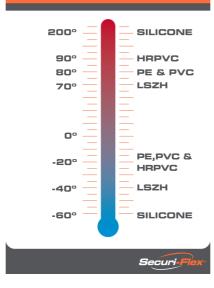
# FLEXIBLE POWER CABLE



#### MORE INFORMATION:

EURO	CLASS	IFICATION CRITERIA			
CLASS (ca:cable)	FIRE RATING	SFX COMMENT	CPR GUII	DE <i>Se</i> d	curi-Flex°
Reaction to Fire BS EN ISO 1716 SUBCLASSIFICATIONS FOR EUROCLASSES Boa to Doc					6 Bca to Dca
A <sub>ca</sub>	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.	(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY
Reaction to Fir	e BS EN 50399		BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
B1 <sub>ca</sub>	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.	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)
B2 <sub>ca</sub>	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.	s1b: s1 + transmittance >=60% <80% (BS EN 61034-2)	d1: Fall of droplets or	a2: low acidity
Cca	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.	s1: Low production of slow propagation of smoke s2: Intermediate	flaming particles that persist for less than 10 seconds, timed for 1200 seconds	(conductivity <10 µS/mm & pH >4.3)
D <sub>ca</sub>	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.	production & propagation of smoke s3: None of the above	d2: None of the above	d2: None of the above
Reaction to Fir	e BS EN 60332-1-2				
E <sub>ca</sub>	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 onlin www.securiflex		The Trusted Cable Brand
F <sub>ca</sub>	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.	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.		













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