



FLEXIBLE POWER CABLE



Flexible power cable

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



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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
Jacket Colour	Black

Electrical Characteristics

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





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MORE INFORMATION:

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA		CPR GUIDE		
	FIRE RATING	SFX COMMENT	Securi-Flex®		
Reaction to Fire BS EN ISO 1716			SUBCLASSIFICATIONS FOR EUROCLASSES B _{ca} to D _{ca}		
A_{ca}	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet A _{ca} , so they should only be specified with extreme caution.	(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY
Reaction to Fire BS EN 50399			BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
B1_{ca}	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1 _{ca} .	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_{ca}	Combustible, low flame spread & heat release contribution to the fire	Similar to Class C _{ca} , 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)
C_{ca}	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class D _{ca} , this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class C _{ca} though availability is improving.	s1: Low production of slow propagation of smoke		
D_{ca}	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: www.securiflex.co.uk The Trusted Cable Brand		
E_{ca}	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 _{ca} to E _{ca} . For a cable to meet A _{ca} , B1 _{ca} , B2 _{ca} or C _{ca} , there also needs to be regular on-going factory audits.		
F_{ca}	Combustible, fire spread of more than 425mm	Cables classified to Class F _{ca} 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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