

**TITLE:**

Solar PV Cable

CODE:

SFX/PV-1C-4.0-XLPO-BLK-1

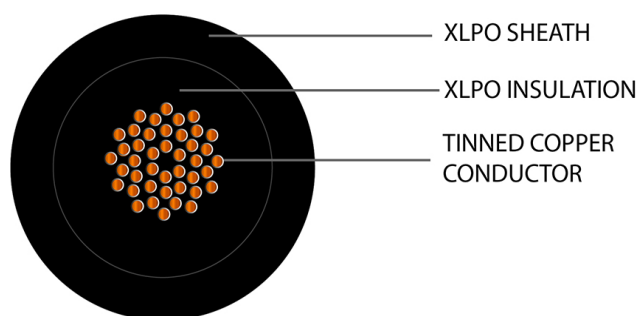
DESCRIPTION:

1m (per metre) Photovoltaic Flex 1 Core
4.0mm XLPO Black

SUPPLIED AS:

Per 1m Lengths

- Wiring of solar panels and photovoltaic applications.
- Flexible enough for easy installation on rooftops and other complex setups
- Rated for high voltage, which is essential for connecting solar panels and other components in a photovoltaic system
- Built to withstand harsh environmental conditions
- Designed to operate in a temperature range of up to 120 degrees
- Designed to resist to UV damage, ensuring they can withstand prolonged exposure to sunlight without degradation



**IMAGE
COMING
SOON**



**IMAGE
COMING
SOON**



**IMAGE
COMING
SOON**



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Product Specification

Cable Construction

Cable Construction	1 Core
CPR	Eca
Conductor	Stranded Tinned Copper (56/0.285±0.008)
Conductor 2	N/A
Overall Diameter (mm)	5.6mm

Insulation

Insulation	XLPO
Insulation Colour	Black
Insulation Thickness (mm)	1.6

Outer/Jacket Specification

Outer Jacket	XLPO
Jacket	XLPO
Overall Colour	Black
Overall Diameter (mm)	5.6mm
Jacket Colour	Black RAL 9005
Jacket Thickness (mm)	N/A

Electrical Characteristics

Max Conductor DC resistance @ 20°C	5.09Ω/km
Rated Temperature (°C)	-40°C to 90°C
Rated Voltage (V)	1500V DC
Capacitance	N/A

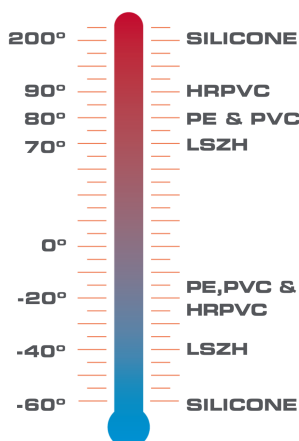




MORE INFORMATION:

EURO CLASS (ca: cable)	CLASSIFICATION CRITERIA		CPR GUIDE	
	FIRE RATING	SFX COMMENT		
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
Reaction to Fire BS EN 50399			BS EN 50399/BS EN 61034-2	BS EN 50399
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
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
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	a1: Very low acidity (conductivity <2.5 μS/mm & pH >4.3)
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	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
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.	Visit us online: www.securiflex.co.uk	
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.	The Trusted Cable Brand	
			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.	

OUR OPERATING TEMPERATURE RANGE GUIDE



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