Securi-Flex®

Flexible power cable

TITLE:
3182B Flex Power LSZH
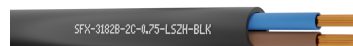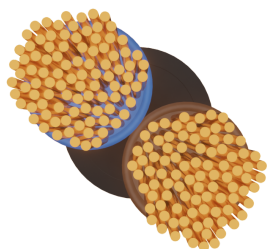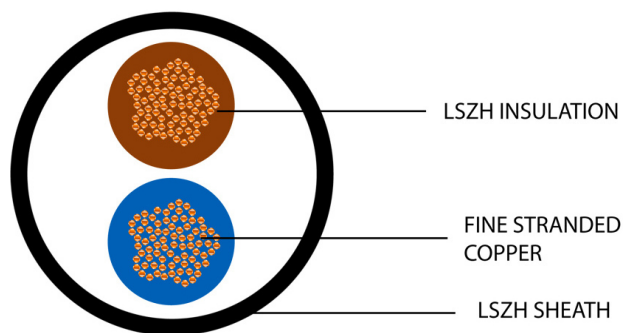
CODE:
SFX/3182B-2C-0.75-LSZH-BLK-U-500

DESCRIPTION:
500m 3182B 0.75mm Flex Black LSZH
(H05Z1Z1-F 2X0.75)

SUPPLIED AS:
Reel of 500m

- Used to connect appliances to mains electricity supplies

- Can be used in light duty domestic and office wiring applications

- Low smoke zero halogen plastic is good for use inside public buildings and spaces as will not emit toxic gases if the cable catches fire

- Conforms to European Harmonisation Standards

- Improved performance and protection against fire

- Stable, flexible durable and robust cable

LSZH INSULATION

FINE STRANDED COPPER

LSZH SHEATH

SFX-3182B-2C-0.75-LSZH-BLK

SFX-3182B-2C-0.75-LSZH-BLK

FLAME-FLEX® Drum-Roll LUCKINS® epim EDA ELECTRICAL DISTRIBUTORS' ASSOCIATION BASEC KNX MEMBER cai CPR UKCA

Product Specification

Cable Construction

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

Insulation

Insulation	LSZH
Insulation Colour	Blue,Brown

Outer/Jacket Specification

Jacket	LSZH
Overall Colour	Black
Overall Diameter (mm)	6.30
Jacket Colour	Black

Electrical Characteristics

Max Conductor DC resistance @ 20°C	26.00O/km
Rated Temperature (°C)	-40°C to +70°C
Rated Voltage (V)	300/500V

MORE INFORMATION:

CLASSIFICATION CRITERIA

EURO CLASS (ca:cable)	FIRE RATING	SFX COMMENT
Reaction to Fire BS EN ISO 1716		
A$_{ca}$	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.
Reaction to Fire BS EN 50399		
B1$_{ca}$	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.
B2$_{ca}$	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.
C$_{ca}$	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.
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.
Reaction to Fire BS EN 60332-1-2		
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.
F$_{ca}$	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.

CPR GUIDE

SUBCLASSIFICATIONS FOR EUROCLASSES Bca to Dca

(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY
BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
s1a: s1 + transmittance >=80% (BS EN 61034-2) s1b: s1 + transmittance >=60% <80% (BS EN 61034-2) s1: Low production of slow propagation of smoke s2: Intermediate production & propagation of smoke s3: None of the above	d0: No fall of droplets or flaming particles, times for 1200 seconds d1: Fall of droplets or flaming particles that persist for less than 10 seconds, timed for 1200 seconds d2: None of the above	a1: Very low acidity (conductivity <2.5 μS/mm & pH >4.3) a2: low acidity (conductivity <10 μS/mm & pH >4.3) d2: None of the above

Visit us online:
www.securiflex.co.uk

SFX®
The Trusted Cable Brand

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.

OUR OPERATING TEMPERATURE RANGE GUIDE

Temperature	Material
200°	SILICONE
90°	HRPVC
80°	PE & PVC
70°	LSZH
0°	
-20°	PE, PVC & HRPVC
-40°	LSZH
-60°	SILICONE

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