ALARM CABLE

Securi-Flex®

Alarm cable

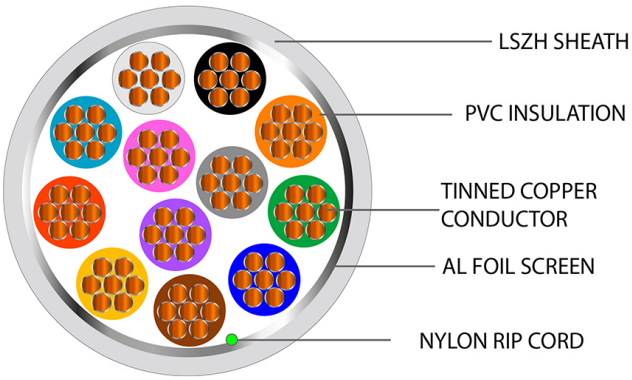
TITLE:
Alarm Type 1 Copper LSZH

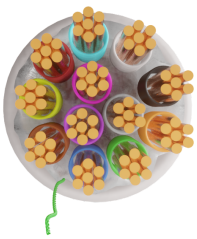
CODE:
SFX/12C-TY1-SCR-LSZH-D-WHT-100

DESCRIPTION:
100m 12 Core Type 1 Alarm Screened White LSZH

SUPPLIED AS:
Reel of 100m

- Generally used for connecting alarm equipment such as sensors, control panels and other low voltage circuits
- This cable is ROHS compliant
- 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
- A premium alarm cable conforming to BS4737
- Improved performance and protection against fire





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Product Specification

25-YEAR WARRANTY

Cable Construction

Cable Construction	12 Cores
CPR	Dca -s2 -a1 -d1
Conductor	Tinned Copper
Conductor Diameter (mm)	0.19 ±0.008 x 7
Stranded Diameter (mm)	0.22
Overall Diameter (mm)	5.40 ±0.200
Compliance and Standards	BS4737-3.30:2015,RoHS2 2011/65/EU

Insulation

Insulation	LSZH
Insulation Colour	Red,Black,Blue,Yellow,Green,White,Orange,Brown,Turquoise,Pink,Violet,Grey
Insulation Resistance @20°C	>200 MO/km
Insulation Thickness (mm)	0.21

Outer/Jacket Specification

Jacket	LSZH
Overall Colour	White
Overall Diameter (mm)	5.40 ±0.200
Jacket Colour	White RAL 9003
Jacket Thickness (mm)	0.5
Nylon Rip-Cord	Green 210D

Electrical Characteristics

Insulation Resistance @20°C	>200 MO/km
Max Conductor DC resistance @ 20°C	100O/km
Rated Temperature (°C)	-40°C to 70°C
Rated Voltage (V)	30V

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MORE INFORMATION:

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA: FIRE RATING	CLASSIFICATION CRITERIA: 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

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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)	d0: No fall of droplets or flaming particles, times for 1200 seconds	a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3)
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)
s1: Low production of slow propagation of smoke		
s2: Intermediate production & propagation of smoke		
s3: None of the above	d2: None of the above	d2: None of the above

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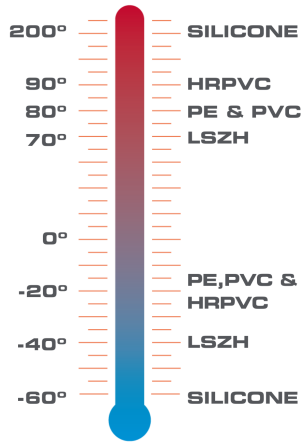
Classes A to E have to be tested by an independent authorised laboratory.
Most cables will fall into classes B2ca to Eca.
For a cable to meet Aca, B1ca, B2ca or Cca, there also needs to be regular on-going factory audits.

OUR OPERATING TEMPERATURE RANGE GUIDE



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