DEFENCE STANDARD CABLE

Securi-Flex®

Defence standard cable

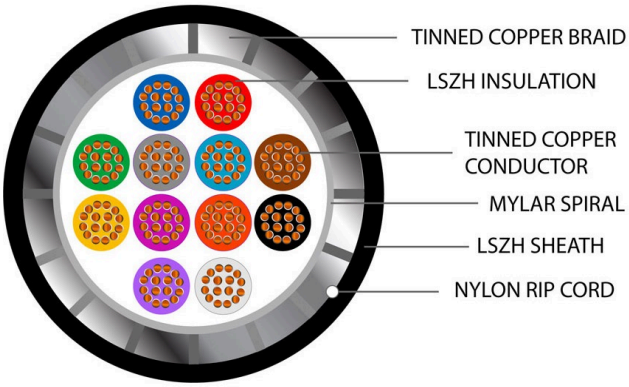
TITLE:
Defence 16-2 Screened LSZH

CODE:
SFX/DS-16-2-12C-LSZH-BLK-1

DESCRIPTION:
1m (per metre) Def Standard 16 x 0.2mm
12 Core TCWB Screened Black UV LSZH

SUPPLIED AS:
Per 1m Lengths

- Originally designed for military use, these cables are now widely used in many other industries and applications
- A robust, compact cable with high working voltage range
- 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
- These cables should not be used for mains connections
- Improved performance and protection against fire
- Uses include security, telemetry, data processing, process control, instrumentation, control equipment and aviation









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TERMS AND CONDITIONS APPLY - WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY AND COMPLETENESS OF THE INFORMATION, NO GUARANTEE IS GIVEN NOR RESPONSIBILITY TAKEN FOR ERRORS OR OMISSIONS IN THIS DATA SHEET.

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Product Specification

Cable Construction

Cable Construction	12 Cores
CPR	Eca
Conductor	Tinned Copper
Conductor Diameter (mm)	0.19 ±0.008 x 16(0.52mm²)
Overall Diameter (mm)	10.50 ±0.20

Insulation

Insulation	LSZH
Insulation Colour	Red,Blue,Green,Yellow,White,Black,Brown,Violet,Orange,Pink,Turquoise,Grey
Insulation Thickness (mm)	0.3

Outer/Jacket Specification

Jacket	UV LSZH
Overall Colour	Black
Overall Diameter (mm)	10.50 ±0.20
Jacket Colour	Black RAL 9005
Jacket Thickness (mm)	1
Nylon Rip-Cord	210D

Electrical Characteristics

Max Conductor DC resistance @ 20°C	<39O/km
Rated Temperature (°C)	-40°C to 70°C
Rated Voltage (V)	600V

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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

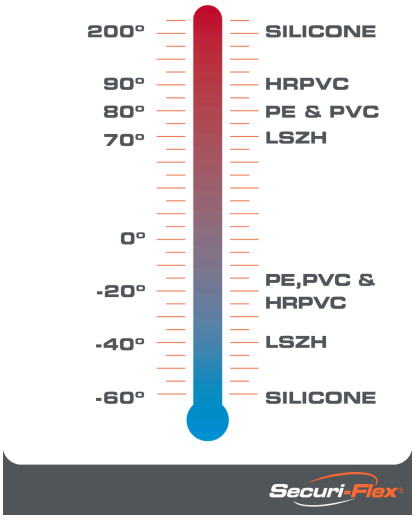
(S) SMOKE PRODUCTION	(D) FLAMING DROPLETS	(A) SMOKE ACIDITY
BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
s1a: s1 + transmittance >=80% (BS EN 61034-2)	d0: No fall of droplets or flaming particles, times for 1200 seconds	a1: Very low acidity (conductivity <2.5 µS/mm & pH >4.3)
s1b: s1 + transmittance >=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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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



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