8 Core Type1 LSZH Alarm Cable

PRODUCT OVERVIEW

8 core Type 1 tinned copper alarm cable with LSZH insulated and LSZH outer sheath in white.

Each cable consists of 8 colour coded insulated conductors. These together with a nylon ripcord are jacketed in Low Smoke Zero Halogen material.

Type 1 alarm cable is designed for use within intruder alarm, security systems and other low voltage circuits.

ADI/8CT1LSZHWH100

FEATURES

8 core Type 1 alarm cable with Low Smoke Zero Halogen insulated conductors and outer sheath.

- Tinned copper conductors
- 100 metre reel
- White RAL 9003
- Reaction for Fire Rating - Eca (CPR Rating)
- Rip cord for ease of stripping outer sheath
- Manufactured in accordance with BS4737-3.30:2015
- Sequential reverse metre markings (100-0)
- Rated Voltage 50v
- Supports interconnection of intruder alarm installations
- Warranty 10 Years

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UK CA

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CROSS-SECTION DIAGRAM

PRODUCT SPECIFICATIONS

Conductor Diameter: **8 core** 0.55
Overall Cable Diameter (mm): 4.30 ± 0.20
Insulation: LSZH
Insulation Thickness (mm): **7 Core** 0.22 / **1 Core** (central core) 0.30
Insulation Diameter (mm): **7 Core** 1.00±0.10 / **1 Core** (central core) 1.15±0.10
Insulation Colour(s): 8 Core Red, Black, Blue, Yellow, Green, White, Orange & Brown central core
Nylon Rip-Cord: Green
Inner Conductor DC Resistance @20°C: 100.0 Ohm/KM
Jacket: LSZH
Jacket Thickness (mm): 0.50
Rated Temperature : -10 to +70°C
Warranty 10 Years

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CONSTRUCTION PRODUCT REGULATIONS (CPR)

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA: FIRE RATING	CPR Description
Reaction to Fire BS EN ISO 1716		
Aca	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		
B1ca	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1ca.
B2ca	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.
Cca	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.
Dca	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		
Eca	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.
Fca	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)	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.

This product is rated CPR Euroclass Eca for its reaction to fire

This product should only be installed, by a qualified installer, adhering to local wiring regulations relevant to the application. It is the responsibility of the installer to ensure that the CPR Class installed meets the requirements for the application in their country.

CONSTRUCTION PRODUCT REGULATION EURO CLASSES

Aca	No Reaction
B1ca	Very Low Reaction
B2ca	Low Reaction
Cca	Reduced Reaction
Dca	Improved Reaction
Eca	Basic Reaction
Fca	Undetermined

Eca

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