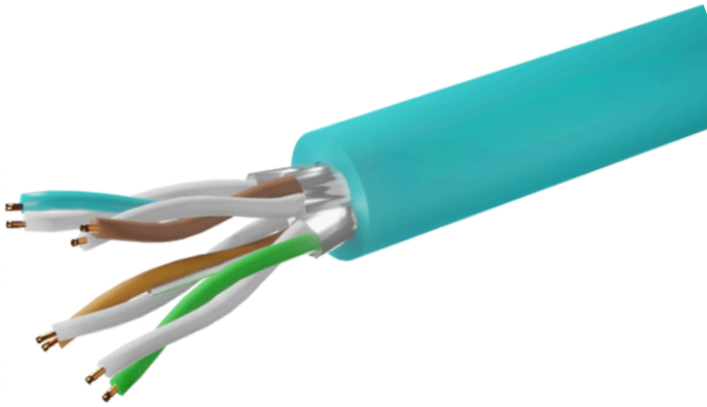
# Cat6a U/FTP Ice Blue LSZH Cable

## PRODUCT OVERVIEW

Solid conductor 4 pair Cat6 U/FTP (Screened twisted Pairs) cable with Ice Blue LSZH outer sheath.

Each cable consists of 8 colour coded high density polyethylene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs, together with a strong nylon rip cord are jacketed in LSZH material.



**ADIC6AUFTLSB2IB305**

## FEATURES

**Cat6a 4 pair U/FTP solid cable with 8 colour coded high density polyethylene insulated conductors**

**Bare copper conductors**

**305 metres in an easy to pull box**

**Ice Blue RAL 6027**

**Reaction for Fire Rating - B2ca (CPR Rating)**

**Rip cord for ease of stripping outer sheath**

**Manufactured and tested to ISO/IEC 11801 ANSI/TIA 568.2-D B2ca -s1a -a1 -d1 standards**

**Sequential reverse metre markings (305-0)**

**23 American Wire Gauge (AWG)**

**Supports Gigabit Ethernet**

**10 Year Warranty**

**For more information contact your ADI sales person**

**Rev: v1 May 23**

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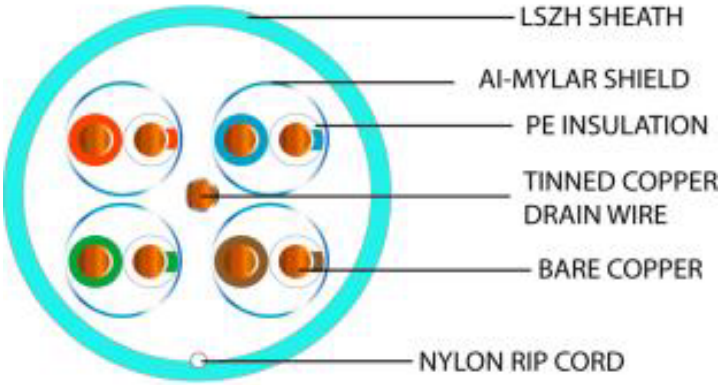
## CROSS-SECTION DIAGRAM




## PRODUCT SPECIFICATIONS

| |
|---|
| Conductor: Bare Copper |
| Conductor Size: AWG 23 |
| Overall Diameter (mm): 6.80 ±0.50 |
| Impedance (1-100Mhz): 100Ω ±15Ω |
| Insulation: HDPE |
| Insulation Thickness (mm): 0.36 |
| Insulation Diameter (mm): 1.28 ± 0.05 |
| Insulation Colour(s): Blue/White/Blue; Orange/White/Orange; Green/White/Green ;Brown/White/Brown |
| Nylon Rip-Cord: White 210D |
| Jacket: LSZH |
| Jacket Thickness (mm): 0.50 ±0.05 |
| Rated Temperature: -40°C to 70°C |

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## CONSTRUCTION PRODUCTS REGUALTIONS (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 B2ca 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 |

B2ca

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