

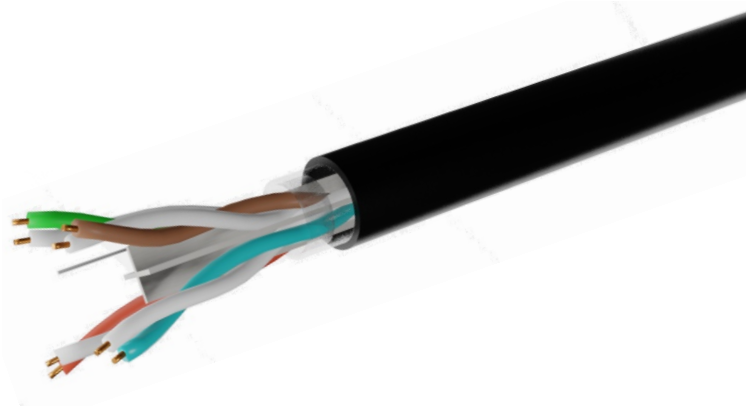
# Cat6 UTP Black PE Cable

**ADI  
PRO**

## PRODUCT OVERVIEW

Solid conductor 4 pair Cat6 U/UTP (Unscreened/Unscreened twisted Pairs) cable with PE Black 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 PE (UV resistant) material.



**ADIC6UTPPEBLK305**

## FEATURES

**Cat6 4 pair UTP solid cable with 8 colour coded high density polyethylene insulated conductors**

**Bare copper conductors**

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

**Black RAL 9005**

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

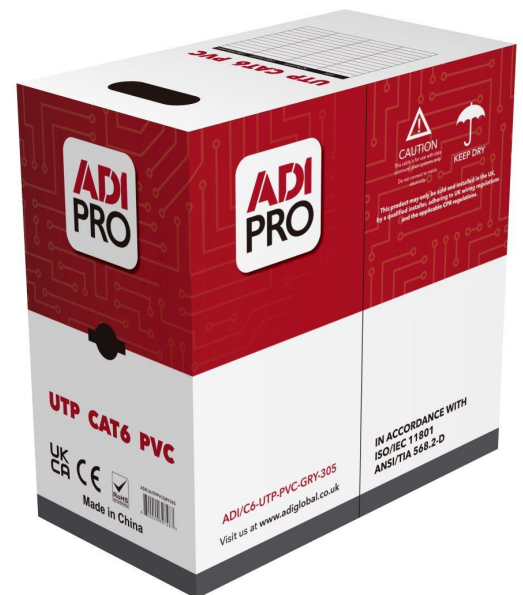
**Rip cord for ease of stripping outer sheath**

**Manufactured and tested to ISO/IEC 11801, ANSI/TIA 568-C.2, CE2014/30/EU, LVD, 2014/35/EU, RoHS2 2011/65/EU standards.**

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

**24 American Wire Gauge (AWG)**

**Supports Gigabit Ethernet**



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

Rev: v2 Feb 23

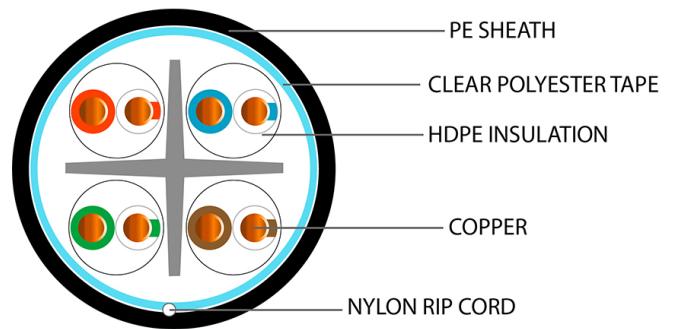
**UK  
CA**

**CE**



# Cat6 UTP Black PE Cable

## CROSS-SECTION DIAGRAM



## PRODUCT SPECIFICATIONS

Conductor: Bare Copper

Conductor Size: AWG 24

Overall Cable Diameter (mm): 6.10

Impedance (1-100Mhz):  $100\Omega \pm 15\Omega$

Insulation: HDPE

Insulation Thickness (mm): 0.18

Insulation Diameter (mm):  $1.02 \pm 0.08$

Insulation Colour(s): Blue/White/Blue; Orange/White/Orange; Green/White/Green ;Brown/White/Brown

Nylon Rip-Cord: White 210D

Jacket: PE (UV resistant)

Jacket Thickness (mm): 0.55

Rated Temperature : -20°C to 80°C

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## CONSTRUCTION PRODUCT REGULATIONS (CPR)

EURO CLASS (ca:cable)	CLASSIFICATION CRITERIA		CPR GUIDE		
	FIRE RATING	CPR Description			
Reaction to Fire BS EN ISO 1716			SUBCLASSIFICATIONS FOR EUROCLASSES B <sub>ca</sub> to D <sub>ca</sub>		
<b>A<sub>ca</sub></b>	Does not contribute to the fire	Due to availability, it will be almost impossible for a cable to meet A <sub>ca</sub> , so they should only be specified with extreme caution.	<b>(S) SMOKE PRODUCTION</b>	<b>(D) FLAMING DROPLETS</b>	<b>(A) SMOKE ACIDITY</b>
Reaction to Fire BS EN 50399			BS EN 50399/BS EN 61034-2	BS EN 50399	BS EN 60754-2
<b>B1<sub>ca</sub></b>	Minimum contribution to the fire	It's highly unlikely the commonly-used cables will be classified to Class B1 <sub>ca</sub> .	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)
<b>B2<sub>ca</sub></b>	Combustible, low flame spread & heat release contribution to the fire	Similar to Class C <sub>ca</sub> , although a lower acceptable heat release rate and burn measurement. In practice, this is likely to be the highest class cables will meet.	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)
<b>C<sub>ca</sub></b>	Combustible, moderate flame spread & heat release	This is a more rigorous test than Class D <sub>ca</sub> , this is widely accepted across Europe as the 'go to' classification, but be aware, many cables do not meet Class C <sub>ca</sub> though availability is improving.	s1: Low production of slow propagation of smoke		
<b>D<sub>ca</sub></b>	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.	s2: Intermediate production & propagation of smoke		
Reaction to Fire BS EN 60332-1-2			s3: None of the above	d2: None of the above	d2: None of the above
<b>E<sub>ca</sub></b>	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.	Visit us online: <a href="http://www.adiglobal.com">www.adiglobal.com</a>		
<b>F<sub>ca</sub></b>	Combustible, fire spread of more than 425mm	Cables classified to Class F <sub>ca</sub> 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.	Classes A to E have to be tested by an independent authorised laboratory. Most cables will fall into classes B2 <sub>ca</sub> to E <sub>ca</sub> . For a cable to meet A <sub>ca</sub> , B1 <sub>ca</sub> , B2 <sub>ca</sub> or C <sub>ca</sub> , there also needs to be regular on-going factory audits.		

This product is rated CPR Euroclass F<sub>ca</sub> 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.

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CONSTRUCTION PRODUCT  
REGULATION EURO CLASSES



<b>A<sub>ca</sub></b>	No Reaction
<b>B1<sub>ca</sub></b>	Very Low Reaction
<b>B2<sub>ca</sub></b>	Low Reaction
<b>C<sub>ca</sub></b>	Reduced Reaction
<b>D<sub>ca</sub></b>	Improved Reaction
<b>E<sub>ca</sub></b>	Basic Reaction
<b>F<sub>ca</sub></b>	Undetermined

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CA

