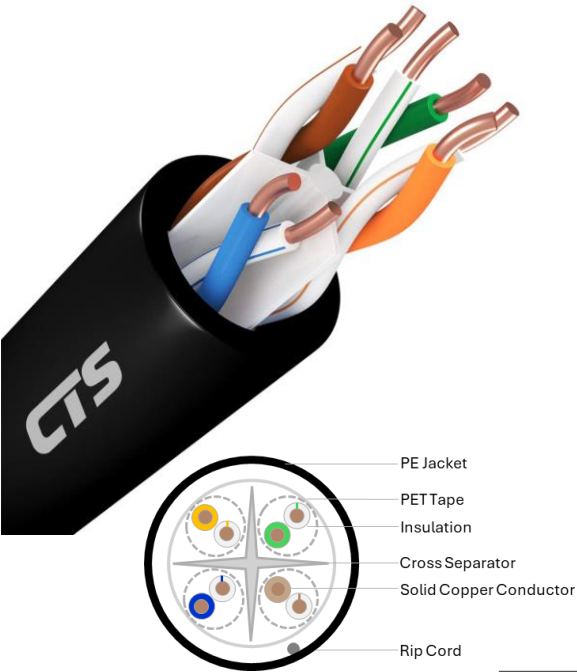


CCC6UUPEBK | Category 6 Cable

U/UTP 23 AWG PE Jacket



*Images are for representative purposes only



Product Description:

CTS Category 6 PE Cable is a high-performance, unshielded twisted pair cable designed for outdoor applications, providing robust and reliable transmission of data at speeds of up to 1 Gigabit per second (1000BASE-T). These cables are ideal for installations requiring long-term durability.

Applications:

Gigabit Ethernet (1000Base-T)
Industrial environments
IEEE 802.3af/at/bt (PoE, PoE+, and PoE++)
Security & Surveillance Systems

Standards:

ANSI/TIA-568.2-D, EN 50173-1
EN 50173-2, EN 50288-11-1,
IEC 61156-5 and ISO/IEC 11801-1 CATEGORY 6

Features:

Transmission parameters up to 250 MHz
Suitable for outdoor use

Technical Specification:

Conductor Material	Solid Bare Copper	
Conductor Nominal Outer Diameter	0.550 ± 0.005 mm (23 AWG)	
Insulation Material	HDPE	
Insulation Diameter	0.97 ± 0.08 mm	
Screening	PET Tape	
Sheath Thickness	0.55 ± 0.05 mm	
Cable Outer Diameter	6.3 ± 0.5 mm	
Outer Sheath	RoHS compliant LDPE	
Insulation Colour Coding	1 White- Blue /Blue	2 White-Orange /Orange
	3 White-Green /Green	4 White- Brown /Brown
Impedance	100 ± 15 Ω at 20°C (1-250 MHz)	
Delay Skew	≤ 45 ns/100m at 20°C	
DC Resistance	9.38 Ω/100m max at 20°C	
DC Conductor Resistance Unbalance	5.0 % max at 20°C	

Version 01-01



CCC6UUPEBK | Category 6 Cable

U/UTP 23 AWG PE Jacket



Nominal Velocity of Propagation (NVP)	69 %
Max. Pulling Force (N)	110 N
Min. Bend Radius during Installation	8 x Cable Diameter
Min. Bend Radius after Installation	4 x Cable Diameter
Installation Temperature Range	-40 °C to +60 °C
Operating Temperature Range	-55 °C to +70 °C
Package Length	1000 Ft

Technical Performance:

Frequency (MHz)	RL (dB)	ATTN (dB)	NEXT (dB)	PSNEXT (dB)	ACR-F (dB)	PSACR-F (dB)	Phase Delay (ns)
1	20.0	2.03	74.3	72.3	67.8	64.8	570.00
4	23.0	3.78	65.3	63.3	55.8	52.8	552.00
8	24.5	5.32	60.8	58.8	49.7	46.7	546.73
10	25.0	5.95	59.3	57.3	47.8	44.8	545.38
16	25.0	7.55	56.2	54.2	43.7	40.7	543.00
20	25.0	8.47	54.8	52.8	41.8	38.8	542.05
25	24.3	9.51	53.3	51.3	39.8	36.8	541.20
31.25	23.6	10.67	51.9	49.9	37.9	34.9	540.44
62.5	21.5	15.38	47.4	45.4	31.9	28.9	538.55
100	20.1	19.80	44.3	42.3	27.8	24.8	537.60
200	18.0	28.98	39.8	37.8	21.8	18.8	536.54
250	17.3	32.85	38.3	36.3	19.8	16.8	536.27

Ordering Information:

CCC6UUPEBK CTS Category 6 U/UTP 23 AWG PE Cable 305m Black

For other options, please contact CTS Product team

