

PRODUCT OVERVIEW

Bellcom Category 6A indoor UTP cable is designed for high-performance structured cabling and horizontal network installations supporting 10GBASE-T Ethernet. The cable uses 23AWG bare copper conductors, PE insulation, and a CMR-rated PVC jacket for indoor data, voice, and video applications.

FEATURES

- Category 6A UTP cable for 10 Gigabit Ethernet networks
- 4-pair construction with 23AWG bare copper conductors
- PE insulation with CMR PVC outer jacket
- Nominal outer diameter: 6.8 mm
- Designed for indoor horizontal structured cabling applications
- Supports Ethernet, Gigabit Ethernet, Fast Ethernet, ATM, voice, T1, ISDN, and broadband video applications
- Complies with RoHS and REACH directives

APPLICATIONS

- 10GBASE-T Ethernet
- 1000BASE-Tx Gigabit Ethernet
- 10BASE-T / 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG-AnyLAN (IEEE 802.12), 155/622 Mbps ATM
- 550 MHz Broadband Video; Voice, T1, ISDN

PRODUCT SUMMARY

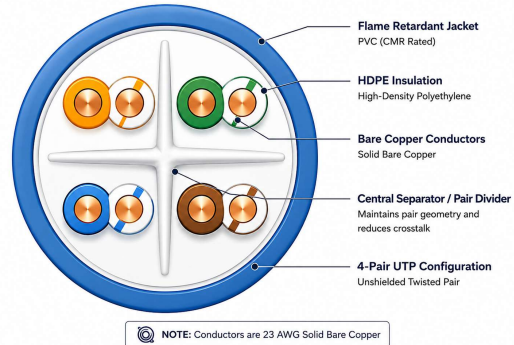
Property	Specification
Product Type	Indoor UTP Cable
Category	Category 6A
Construction	23AWG x 4P
Conductor	Bare Copper
Insulation	PE
Jacket	CMR PVC
Outer Diameter	Nominal 6.8 mm
Package	305M Reel
SKU	BC6A-UTP-W/B

CONSTRUCTION & CHARACTERISTICS

Component	Property	Specification
Conductor	Material / Size	Bare Copper / 23 AWG
Insulation	Material	PE
Insulation	Thickness	Nominal: 0.226 mm
Insulation	Diameter	Nominal: 1.011 mm
Insulation	Colours	Blue/White-Blue; Orange/White-Orange; Green/White-Green; Brown/White-Brown
Insulation	Unaged Elongation	Min. 300%
Insulation	Unaged Tensile Strength	Min. 1.683 Kg/mm ²
Jacket	Material	PVC
Jacket	Thickness	Nominal: 0.65 mm
Jacket	Diameter	Nominal: 6.8 mm
Jacket	Colours	Assorted upon request
Jacket	Unaged Elongation	Min. 100%
Jacket	Unaged Tensile Strength	Min. 1.4076 Kg/mm ²
Jacket Aging	Condition	100°C for 168 hours
Jacket Aging	Elongation Retention	Min. 50%
Jacket Aging	Tensile Strength Retention	Min. 75%

PAIR CONFIGURATION

Pair	Color Combination
Pair 1	Blue / White-Blue
Pair 2	Orange / White-Orange
Pair 3	Green / White-Green
Pair 4	Brown / White-Brown

CAT6A Cable Cross Section**ELECTRICAL / TECHNICAL PERFORMANCE**

Property	Specification
Dielectric Strength of Insulation	2500 V dc / 2 seconds
Insulation Resistance Test	Min. 5000 MΩ/m
Conductor Resistance	Max. 9.38 Ω/100m at 20°C
Resistance Imbalance	Max. 2%
Capacitance Imbalance	Max. 160 pF/100m
Mutual Capacitance	Max. 5600 pF/100m
Impedance at 1-100 MHz	100Ω ± 15%
Impedance at 100-500 MHz	100Ω ± 22%

ATTENUATION & NEAR END CROSS TALK

Frequency	Max. Attenuation	NEXT	PSNEXT
1 MHz	1.9* dB Max.	65.0* dB Min.	62.0* dB Min.
10 MHz	5.5* dB Max.	57.8* dB Min.	55.5* dB Min.
100 MHz	18.0* dB Max.	41.8* dB Min.	39.3* dB Min.
200 MHz	26.1* dB Max.	36.9* dB Min.	34.3* dB Min.
250 MHz	29.5* dB Max.	35.3* dB Min.	32.7* dB Min.
300 MHz	32.7* dB Max.	34.0* dB Min.	31.4* dB Min.
400 MHz	38.4* dB Max.	29.9* dB Min.	27.1* dB Min.
500 MHz	43.8* dB Max.	26.7* dB Min.	23.8* dB Min.

Asterisked (*) values are for information only.

STANDARDS & APPROVALS

- ANSI/TIA-568.2-D Cat.6A
- ISO/IEC 11801-1 Edition 1.0 Class EA
- Complies with RoHS and REACH directives
- ETL approval listed in part and package information

PART & PACKAGE INFORMATION

SKU / Part No.	Product Description
BC6A-UTP-W/B	CAT6A Indoor UTP Horizontal Cable, 23AWG x 4P, CMR PVC Jacket

Property	Specification
Packing	305M Reel
Approval	ETL
Colours	W-White, B-Blue

Color and packaging options should be confirmed at time of order.