

AE-C6-BCEB-UTP-DJ-BLACK
4 PAIR 23AWG CAT-6 UTP DOUBLE JACKET CABLE
DESCRIPTION

This Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, 4 Pair stranded over PE cross Separator, Rip cord, PVC Inner sheath and Polyethylene black colour Outer Sheath

REFERENCE STANDARD

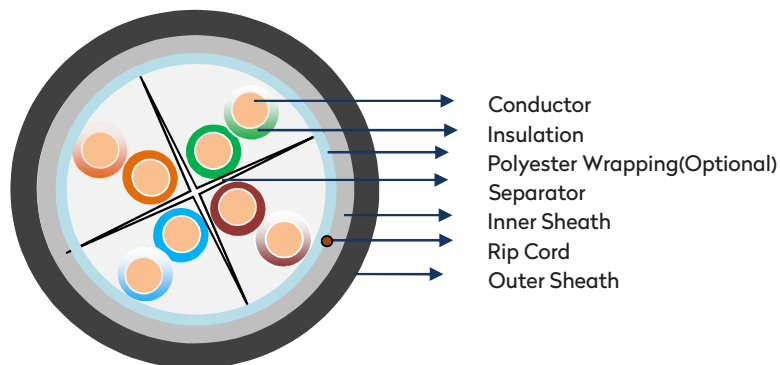
ANSI/TIA 568-C.2 Category 6, ISO /IEC 11801 2nd Edition Class E

APPLICATION

These structure cable suitable for Gigabyte Ethernet Applications and compatible with all known connection Systems, Ideal for high performance workstation applications including voice/data systems, Digital video, Broadband and Voice over internet protocol etc.

FEATURES

- Performance specification up to 250 MHz.
- UV resistance outer sheath, Inner Sheath
- Flame Retardant (IEC60332-1)
- Suitable for Outdoor above ground application.
- Rugged Double sheath construction.
- Anti rodent& Anti termite* outer Jacket.
- RoHS Complaint.



Conductor		23 AWG (0.52 ± 0.02mm) Solid Bare Copper conductor					
Insulation		High Density Polyethylene					
Pairs		Two Insulated conductors Twisted together to form pair ,lay ≤ 30mm					
Laid up		4 pairs laid together and Separated by Cross element					
Inner Sheath		PVC					
Outer Sheath		Polyethylene, Colour -Black					
Cable Diameter		7.0 ± 0.50 mm					
Colour Code:							
Pair-1		Pair-2		Pair-3		Pair-4	
White/Blue	Blue	White/Orange	Orange	White/Green	Green	White/Brown	Brown

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ELECTRICAL CHARACTERISTICS@ 20°C

Conductor Resistance	Max 9.38 Ω /100m
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance	Max. 5.6 nF/100m
Capacitance Earth Unbalance	Max. 330 pF/100m
Insulation Resistance	Min. 5000 M.Ohm km
Dielectric Strength	DC 1000V/Min
Propagation Delay @ 1, 10, 100 & 250 MHz	Max. 570, 545, 538 & 536 ns/100 m
Velocity of Propagation	Nom. 69%
Characteristics Impedance:	100 \pm 15 Ω
Propagation DeLay Skew 1 – 250 MHZ	Max. 45 ns/100 m

TRANSMISSION CHARACTERISTICS@70m 20°C

Discrete Freq (MHz)	Attenuation (dB/100m) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (ELFEXT) (dB)Min.	PSACRF [PSELFEXT] (dB)Min.	Return Loss (dB) Min.	Remarks
1	2.1	65	62	63.3	60.3	19	Cable shall be Unwinded in Air
4	4	63	60.5	51.2	48.2	19	
8	5.7	58.2	55.6	45.2	42.2	19	
10	6.3	56.6	54	43.3	40.3	19	
16	8	53.2	50.6	39.2	36.2	18	
20	9	51.6	49	37.2	34.2	17.5	
25	10.1	50	47.3	35.3	32.3	17	
31.25	11.4	48.4	45.7	33.4	30.4	16.5	
62.5	16.5	43.4	40.6	27.3	24.3	14	
100	21.3	39.9	37.1	23.3	20.3	12	
200	31.5	34.8	31.9	17.2	14.2	9	
250	35.9	33.1	30.2	15.3	12.3	8	

NOTE; Supply cable guaranteed to pass Channel test as per ANSI/TIA-568-C.2 Category 6, testing configuration as one 70m cable segment and 2 RJ45 connector direct attached fluke tester as below



AE-C6-BCEB-UTP-DJ-BLACK**4 PAIR 23AWG CAT-6 UTP DOUBLE JACKET CABLE****MECHANICAL PROPERTIES**

Maximum Tensile strength -short term
Bending radius: 8 x overall diameter (min.)

110N
Breaking strength: 400

THERMAL CHARACTERISTICS

Operating Temperature-
Installation Temperature-

20°C to +60°C
0°C to +50°C

STANDARD LENGTH & PACKING

305m Spool Dimension (L:B:H)Spool:

14 x 6 x 12"