

CAT6A 305M UTP SOLID NETWORK CABLE - BLUE

PART NUMBER: C6AUTSL305-BU



AVAILABLE COLOURS



PRODUCT DESCRIPTION

Serveredge CAT6A 305m UTP Solid Network Cable can be used to connect a variety of devices in a high-speed network. The cable is twisted in four pairs and protected by a PVC jacket. It is packaged in an easy to use pull box carton. The cable is made from the highest quality copper to maximize performance and minimize Near-End Crosstalk (NEXT)..

PRODUCT FEATURES

- ISO/IEC 11801 Ed. 2.2 (Class EA)
- IEC 61156-5:2009 (Category 6A)
- ANSI/TIA-568-C.2 (Category 6A)
- Supports all applications designed to operate over Category 6A or lower rated systems
- Sequential measurement markings on jacket
- Easy & Effective to use pull box packaging
- Supports up to 10GBASE-T applications
- 25 Year Warranty

PRODUCT SPECIFICATION

Sheath material:	PVC
Wall thickness of sheath:	0.50mm
Rip cord under sheath:	Yes
Insulation material:	High-density polyethylene (HDPE)
Insulation thickness:	0.22mm
Conductor material:	Soft annealed bare copper wire
Cable construction:	4 twisted pairs stranded together
Cable colours:	Yes
Twisted pair lay length:	≤38mm

GUARANTEE/WARRANTY

Serveredge products are manufactured at the highest standards using highest quality materials at an affordable price. This Serveredge Product comes with a 2 year warranty standalone or a 25 years warranty as part of a certified structured cabling project. Subject to Serveredge Terms and Conditions*

TECHNICAL DATA - PHYSICAL

1. Cold bend test	-20 ± 2°C X 4hrs no. crack	
2. Dielectric strength	AC 1.7 KV for 2 s	
3. Insulation	Before Aging	After aging
Min. Tension strength	2400	75% before aging (100°C X 48hrs)
Min elongation (%)		75% before aging (100°C X 48hrs)
4. Jacket		
Min. Tension strength	2000	75% before aging (100°C X 168hrs)
Min elongation (%)		50% before aging (100°C X 168hrs)
5. Min. bending radius (mm)	65	
6. Max. pulling tension (lbs)	25	
7. Installation temperature	-10°C to +60°C	
8. Operating temperature	-10°C to +60°C	

TECHNICAL DATA - ELECTRICAL

1. Conductor resistance (Ω/100m @ 20°C)	Max.	9.5	
2. DC resistance unbalance (%)	Max.	4	
3. Pair-to-ground capacitance unbalance (pF/km)	Max.	1600	
4. Delay skew (ns/100m)		Max. 45	4 ≤ f ≤ 500MHz
5. Insertion Loss (dB/100m)	Max.	1.82 * √f + 0.0091 * f + 0.25/√f	1 ≤ f ≤ 500MHz
6. Pair to Pair NEXT (dB/100m)	Min.	75.3 - 15 * log(f)	1 ≤ f ≤ 500MHz
7. PowerSum pr-pr NEXT (dB/100m)	(100m X 48hrs) Min.	72.3-15 * log(f)	1 ≤ f ≤ 500MHz
		Values greater than 75dB shall be converted to 75dB	
8. ELFEXT (dB/100m)	Min.	68 - 20 * log(f)	1 ≤ f ≤ 500MHz
		Values greater than 75dB shall be converted to 75dB	
9. PowerSum ELFEXT (dB/100m)	Min.	65 - 20 * log(f)	1 ≤ f ≤ 500MHz
		Values greater than 75dB shall be converted to 75dB	
10. Return Loss (dB)	Min	20 + 5 * log(f)	1 ≤ f ≤ 10MHz
		25	10 ≤ f ≤ 20MHz
		25 - 7 * log(f/20)	20 ≤ f ≤ 250MHz
		17.3	250 ≤ f ≤ 500MHz
11. Propagation Delay (ns/100m)	Max.	534 + 36 / √f	1 ≤ f ≤ 500MHz
12. Input Impedance (Ω)		100 ± 15%	1 ≤ f ≤ 250MHz
		100 ± 22%	250 < f ≤ 500MHz

IEC 61156-5 ED.2.0 CATEGORY 6A HORIZONTAL CABLE PARAMETERS

Freq. (MHz)	Ins Loss	RL	Pair to Pair		Power Sum		Delay Skew	Po. Delay
			NEXT	ELFEXT	NEXT	ELFEXT		
	dB/100m	dB	dB/100m		dB/100m		ns/100m	ns/100
	Max.	Min.	Min.	Min.	Min.	Min.	Max.	Max.
1	-	20.0	-	-	72.3	-	--	570.0
4	3.8	23.0	66.3	56.0	63.3	53.0	45	552.0
10	5.9	25.0	60.3	48.0	57.3	45.0	45	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	45	543.0
20	8.4	25.0	55.8	42.0	52.8	39.0	45	542.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1	45	540.4
62.5	15	21.5	48.4	32.1	45.4	29.1	45	538.6
100	19.1	20.1	45.3	28.0	42.3	25.0	45	537.6
200	27.6	18.0	40.8	22.0	37.8	19.0	45	536.5
250	31.1	17.3	39.3	20.0	36.3	17.0	45	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	45	536.1
400	40.1	17.3	36.3	16.0	33.3	13.0	45	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	45	535.6

ORDERING INFORMATION

ORDER CODE

DESCRIPTION

C6AUTSL305-BU

Serveredge CAT6A 305M Network Cable - UTP, Solid, PVC, 23AWG - BLUE