

# CAT6A 305M NETWORK CABLE - FUTP, SOLID, LSZH 23AWG

PART NUMBER: **C6AFUTSL305**



## AVAILABLE COLOURS



## PRODUCT DESCRIPTION

Serveredge CAT6A 305m Network Cable - FUTP, Solid, LSZH 23AWG can be used to connect a variety of devices in a high-speed network. The cable is twisted in pairs, separated by an integrated pair divider. Wrapped around the cable is a layer of PET/AL (foil) for protection from electromagnetic interference (EMI) to reduce noise and increase performance. The outer jacket is LSZH (low smoke zero halogen). It's packaged in a pull box for easy access. The cable meets and exceeds all CAT6A TIA/EIA standards, and drastically reduces both impedance and structural return loss (SRL). The cable is made from the highest quality copper to maximize performance and minimize NearEnd 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
- Come in a variety of colours
- Easy & Effective to use pull box packaging
- Supports up to 10GBASE-T applications
- 25 Year Warranty

## PRODUCT SPECIFICATION

<b>Sheath material:</b>	Low smoke zero halogen (LSZH)
<b>Wall thickness of sheath:</b>	0.50mm
<b>Rip cord under sheath:</b>	Yes
<b>Binder</b>	Transverse wrapped with a layer of PET/AL
<b>Insulation material:</b>	High-density polyethylene (HDPE)
<b>Insulation thickness:</b>	0.283
<b>Conductor material:</b>	Soft annealed bare copper wire
<b>Cable construction:</b>	4 twisted pairs stranded together
<b>Cable colours:</b>	Blue, Purple
<b>Twisted pair lay length:</b>	≤30mm

## 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 years warranty standalone or a 25 years warranty as part of a certified structured cabling project.

Subject to Serveredge Terms and Conditions\*

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## ELECTRICAL PERFORMANCE AT 20°C

### LOW FREQUENCY AND D.C

Item	Parameter	Note
Conductor resistance	≤9.38Ω/100m	
Insulation resistance	≥5000MΩ (DC500V Charged 1min)	
Voltage endurance	DC 1500V/min	
Mutual capacitance	≤5.6nF/100m	
Core-core resistance unbalanced	≤5%	

### HIGH FREQUENCY PERFORMANCE

Freq	Attenuation ≤ dB/100m	RL ≥ dB/100m	Next ≥DB/100m	PS - Next ≥dB/100m	ACRF ≥dB/100m	PSACRF ≥dB>100m	Remark
1 MHz	2.1	20	74.3	72.3	67.8	64.8	100m cable tested unwind in the air
4 MHz	3.8	23	65.3	63.3	55.8	52.8	
8 MHz	5.3	24.5	60.8	58.8	49.7	46.7	
10 MHz	5.9	25	59.3	57.3	47.8	44.8	
16 MHz	7.5	25	56.2	54.2	43.7	40.7	
20 MHz	8.4	25	54.8	52.8	41.8	38.8	
25 MHz	9.4	24.3	53.3	51.3	39.8	36.8	
31.25 MHz	10.5	23.6	51.9	49.9	37.9	34.9	
62.5 MHz	15	21.5	47.4	45.4	31.9	28.9	
100 MHz	19.1	20.1	44.3	42.3	27.8	24.8	
200 MHz	27.6	18	39.8	37.8	21.8	18.8	
250 MHz	31.1	17.3	38.3	36.3	19.8	16.8	
300 MHz	34.3	16.8	37.1	35.1	18.3	15.3	
400 MHz	40.1	15.9	35.3	33.3	15.8	12.8	
500 MHz	45.3	15.2	33.8	31.8	13.8	10.8	

## ORDERING INFORMATION

ORDER CODE	DESCRIPTION
C6AFUTSL305-BU	Serveredge CAT6A 305m Network Cable - FUTP, Solid, LSZH 23AWG - BLUE
C6AFUTSL305-PU	Serveredge CAT6A 305m Network Cable - FUTP, Solid, LSZH 23AWG - PURPLE