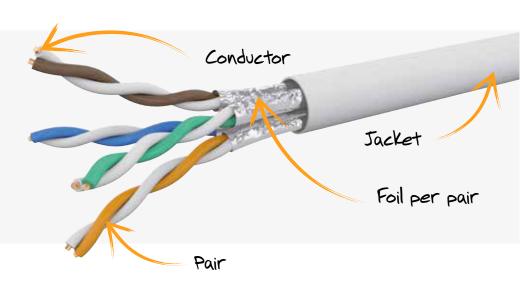




CATEGORY 6A CABLE U/FTP

GGM C6AUF23HF





The GIGAMEDIA CAT6A cable is designed to meet and exceed the performance levels described in the published cabling standards ISO/ IEC 11801, ANSI/TIA 568.2-D, AS/NZS 3080 and AS/NZS 11801 series. The performance headroom provided makes it a reliable and safe choice to support all Class EA applications including 10 Gigabit Ethernet and 100 W remote d.c. powering while better dissipating heat inside bundles when powering over 4 pairs.

The cable consists of 4 pairs of solid insulated copper 23 AWG (0.57 mm) and is individually shielded for enhanced EMI immunity compared to UTP systems and is Low Smoke, Zero Halogen (LSZH) rated. It is designed for use in horizontal cabling situations and supplied in 305 m or 500 m lengths.

PHYSICAL SPECIFICATIONS

- Rated temperature: 60 °C
- Product standards certification: IEC 61156-5, ISO 11801
- Flammability test: IEC 60332-1-2
- LSZH: IEC 60754-2 & 61034-2
- Application: horizontal LAN wiring, PoE up to 90 W (IEEE 802.3bt)
- Reference standard: ANSI/TIA-568.2-D. ISO/IEC 11801, IEC61156-5, AS/NZS 11801.x: 2019

ELECTRICAL CHARACTERISTICS

- ▶ DC resistance: < 9.38 Ω / 100 m at 20 °C
- ▶ Resistance unbalance: max. 2 %
- Nominal Velocity of Propagation (NVP): 78 %
- Max operating voltage: 72 V d.c
- Mutual capacitance: nom. 4.6 nf / 100 m at 1 kHz
- ▶ Capacitance unbalance: max. 160 pf / 100 m at 1 kHz

MECHANICAL SPECS

- ▶ Conductor: solid bare copper
- ▶ Gauge (AWG): 23 AWG
- Conductor: Ø 0.55 mm
- Foam PE insulated conductors
- Jacket: LSZH Flame retardant
- ▶ Jacket cold bend test: pass / no crack
- Outer diameter (± 0.3 mm): 6.40 mm
- ▶ Bending radius (mm), installation: 4x 0.D.
- ▶ Bending radius (mm), operation: 8x O.D.

PART NUMBER	DESCRIPTION	COLOUR
GGM C6AUF23HFWHT3	Cable, Cat 6A U/FTP, 305 m LSZH 23AWG	White
GGM C6AUF23HFWHT5	Cable, Cat 6A U/FTP, 500 m LSZH 23AWG	White
GGM C6AUF23HFBLT3	Cable, Cat 6A U/FTP, 305 m LSZH 23AWG	Blue
GGM C6AUF23HFBLT5	Cable, Cat 6A U/FTP, 500 m LSZH 23AWG	Blue









CAT6A CABLE MINIMUM TRANSMISSION PERFORMANCE

Frequency	Impedance	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFEXT.	Frequency	Return Loss	Propagation Delay	Delay Skew
(MHz)	(0)	max. (dB)	min. (dB)	min. (dB)	min. (dB)	min.(dB)	(MHz)	min. (dB)	max. (ns)	(ns) Max.
4	100±15	3.8	66.3	63.3	56.0	53.0	4	23.0	552.0	
10		5.9	60.3	57.3	48.0	45.0	10	25.0	545.4	
16		7.5	57.2	54.2	43.9	40.9	16	25.0	543.0	
20		8.4	55.8	52.8	42.0	39.0	20	25.0	542.0	
31.25		10.5	52.9	49.9	38.1	35.1	31.25	23.6	540.4	
62.5		15.0	48.4	45.4	32.1	29.1	62.5	21.5	538.6	45
100	100 ±22	19.1	45.3	42.3	28.0	25.0	100	20.1	537.6	
125		21.5	43.8	40.8	26.1	23.1	125	19.4	537.2	
200		27.6	40.8	37.8	22.0	19.0	200	18.0	536.5	
250	100 ±25	31.1	39.3	36.3	20.0	17.0	250	17.3	536.3	
500		45.3	34.8	31.8	14.0	11.0	500	17.3	535.6	

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