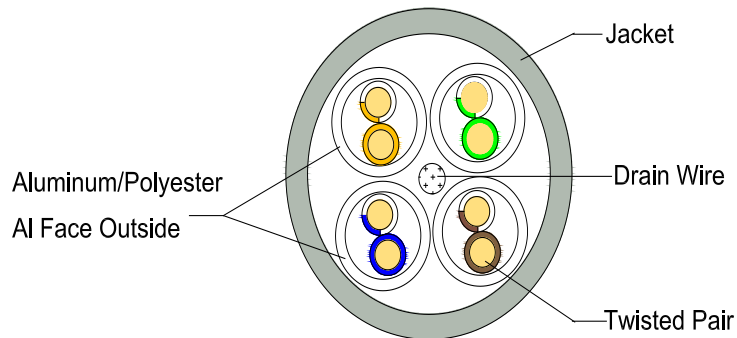


## CAT6A U/FTP 23AWG 4PAIR LSZH



### Standards

- ANSI/TIA-568-C.2 IEC 61156-5
- EN 50288-10-1
- EN 50173
- ISO/IEC 11801
- EN 50575

### Applications

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)
- 1.2 Gbps ATM
- 10G BASE-T

### Color codes

- Insulation Color:
  - P1: White & Blue / Blue
  - P2: White & Orange / Orange
  - P3: White & Green / Green
  - P4: White & Brown / Brown
- Jacket Color: Optional

### Cable Printing

- Customized

**Packaging**

1. Reel/ 305m
2. Reel/ 500m

**Test Requirments**

- Pass fluke 90m permanent link test
- TIA-568-C.2

**Cable Parameters**

Conductor Material		99.99% Solid Bare Copper
Conductor Number		8C(4 pairs)
Cable AWG		23
Construction( $\pm 0.01$ mm)		1/0.57
Drain Wire (1/0.40)		Tinned copper
Shield Overlap		aluminum/polyester $\geq 25\%$
Insulation	Material	SKIN-FOAM- SKIN
	Nom. Thickness(mm)	0.37
	Diameter( $\pm 0.08$ mm)	1.38
Jacket	Material	LSZH
	Nom. Thickness(mm)	0.50
	Diameter( $\pm 0.30$ mm)	7.50

**Electrical Performance**

Max. Conductor DC Resistance ( $\Omega$ /km)		93
Min. Insulation Resistance ( $\Omega$ M-KM)		5000
Dielectric Strength		DC-1KV/1 Min
1.0-250MHZ Characteristic Impedance(ohms)		$100\Omega \pm 15\Omega$
1.0-250MHZ Delay Skew(ns/100m)		$\leq 45$
Pair to Ground Capacitance Unbalance(Pf/100m)		$\leq 330$
Resistance Unbalance(%)		$\leq 4$
Max Mutual Capacitance		5.6nF/10
Max DC Loop Resistance		$19.2\Omega/100m$
Before Aging	Tensile Strength(Mpa)	$\geq 13.5$
	Elongation(%)	$\geq 100$
After Aging 100°C*24h*7d	Tensile Strength(Mpa)	$\geq 75$
	Elongation(%)	$\geq 50$
Velocity of Propagation NVP		78%

**TIA-568-C.2**

Freq. (MHz)	ATTN (dB/100m)	RL (dB)	NEXT (dB)	ELFEXT (dB/100m)	PS (dB/100m)	NEXT (dB/100m)
4	3.8	23.0	66.3	56.0	63.3	53.0
8	5.3	24.5	61.8	49.9	58.8	46.0
10	5.9	25.0	60.3	48.0	57.3	45.0
16	7.5	25.0	57.2	43.9	54.2	40.9
20	8.4	25.0	55.8	42.0	52.8	39.0
25	9.4	24.3	54.3	40.0	51.3	37.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1
62.5	15.0	21.5	48.4	32.1	45.4	29.1
100	19.1	20.1	45.3	28.0	42.3	25.0
200	27.6	18.0	40.8	22.0	37.8	19.0
250	31.1	17.3	39.3	20.0	36.3	17.0
300	34.1	17.3	38.1	18.5	35.1	15.5

**TIA Cat 6 Perm. Link**

Wire Map	Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
	$\Omega$	Max.	nS	nS	MHz	dB	dB	dB	dB	dB	dB	dB	dB
12345678	i	90 m	498	44	1	3	65.0	19.1	62.0	64.2	62.0	59.0	61.2
12345678					4	3.5	64.1	21.0	60.6	52.1	61.8	58.3	49.1
					8	5	59.4	21.0	54.4	46.1	57.0	52.1	43.1
12345678S					10	5.5	57.8	21.0	52.3	44.2	55.5	49.9	41.2
12345678S					16	7	54.6	20.0	47.6	40.1	52.2	45.2	37.1
					20	7.9	53.1	19.5	45.2	38.2	50.7	42.8	35.2
					25	8.9	51.5	19.0	42.7	36.2	49.1	40.2	33.2
					31.25	10	50.0	18.5	40.0	34.3	47.5	37.6	31.3
					62.5	14.4	45.1	16.0	30.8	28.3	42.7	28.3	25.3
					100	18.6	41.8	14.0	23.3	24.2	39.3	20.7	21.2
					200	27.4	36.9	11.0	9.6	18.2	34.3	7.0	15.2
					250	31.1	35.3	10.0	4.2	16.2	32.7	1.6	13.2

**For More Information:**

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