

● CAT6 AWG23 U/UTP HD Digital Communication Cable

■ Description

- Rated temperature: 75°C
- Reference standard: UL444, UL 1685, TIA-568-C.2, IEC 61156-5 & ISO 11801
- Product standard certification: UL
- Flame test: CM
- Solid bare copper conductor
- Colour-coded PE insulation
- LSZH Jacket
- Packaging: Per customer request

■ Application

- 100Base-T4; 100Base-TX
- 100VG-AnyLAN; 1000 Base-T
- 1000Base-TX; HDBaseT
- 155Mbps ATM; 622Mbps ATM
- 10 Gb Ethernet

■ Product figure



HT-A0423AUC6-LMS-001

■ Physical characteristics

Structure	Construction	U/UTP
	Pairs	4
Conductor	AWG	23 AWG
	Conductor material	Solid bare copper
	Conductor nominal dimension	0.566 mm
Insulation	Insulation material	PE
	Insulation nominal dimension	1.00 mm
	Number colour	White/ Blue(Stripe)-Blue
	(Stripe marking)	White /Orange(Stripe)-Orange
		White /Green(Stripe)-Green White / Brown(Stripe)-Brown
Cabling	Twisting lay length	≤30mm
	Cabling lay length	≤200mm
Filler	Filler material	Yes
Binder	Binder material	N/A
Shield	Individual shield & material	N/A
	Primary overall shield & material	N/A
	Secondary overall shield &	N/A
	Drain wire Nom	N/A
	Shield coverage (%)	N/A
Outer jacket	Outer jacket material	LSZH
	Overall nominal dimension	6.6 mm
	Outer jacket rip cord	N/A
	Outer jacket colour	White
Mechanical characteristics	Operating temperature range	-20°C ~ +75°C
	Bulk cable nominal weight	47 kg/km
	Max. recommended pulling	110 N
	Min. bend radius (Install)	4 x O.D.
	Outer jacket tensile strength	≥ 8.3 MPa
	Outer jacket elongation	≥ 100%
	Outer jacket aging condition	100 °C x 168 hrs
	After aging, Tensile strength	≥ 75% of unaging
	After aging, Elongation	≥ 75% of unaging
	Cold bend	No crack (@ -20°C x 4hrs)
	Electrical characteristics	Nom. mutual capacitance
Pair to ground capacitance		≦ 330 pF/100M
Nominal velocity of propagation		67%
Max. delay skew		45ns/100m
Max. conductor DC resistance		93.8Ω/km (@ 20 °C)
Max. Conductor resistance		5% (@ 20°C)
Min. insulation resistance		5000 MΩ/km
Max. operating voltage - UL	300 V	



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■ Marking

HUAXUN HDBaseT™ Recommended Cable U/UTP 23AWG 4PAIR C(UL)US CM E314032-★ Tested to 300MHz ANSI/TIA-568-C.2
CE RoHS AREA A B C D E F G DEVICE 0 1 2 3 4 5 6 7 8 9 ***METER YYMMDDJJNN

■ Electrical characteristics

Frequency	Input (Unfitted) Impedance	Fitted Impedance	ATT	RL	NEXT	PS NEXT	ELFEXT	PSELFEXT	ACR	PSACR	PD
(MHz)	(Ω)	(Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	Max (nxs/100m)
1	100±15	100±15	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3	570.0
10	100±15	100±15	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.0	545.4
62.5	100±15	100±15	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.1	538.6
100	100±15	100±15	19.8	20.1	44.3	42.3	27.8	24.8	28.5	26.5	537.6
200	100±22	100±15	29.5	18.0	39.8	37.8	21.8	18.8	10.3	8.3	536.5
250	100±22	100±15	32.8	17.3	38.3	36.1	19.8	16.3	5.5	3.5	536.3
300	100±22	100±15	36.4	16.8	37.1	35.1	18.3	15.3	0.7	-	536.1
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									-	-	

Frequency	Min.TCL	Min.ELTCTL
(MHz)	(dB)	(dB)
1	40.0	35.0
31.25	35.1	5.1
62.5	32.0	-
100	30.0	-
250	26.0	-

