

GLCAU6AL

UTP Cable Category 6A- UTP LSZH 500MHz

General standards

- International standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
- European standard: EN 50173-1 (2002) and EN 50173-1 Amendment 1 (2009)
- U.S. Standards: ANSI/TIA/EIA 568-B.2-10 (2008)

Physical dimensions

1- Conductor

Material: Solid bare copper ETP
Diameter: AWG 23

2- Insulation

Material: Foamed polyethylene
Nominal diameter over insulation: 1.32 mm

3- Certification

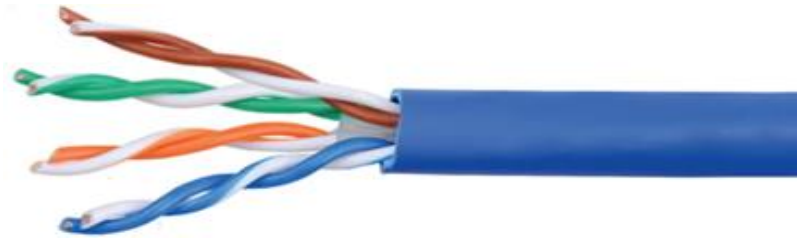
Former Delta EC Verified (Force Technology)

4- Cable core

Pair: 2 twisted insulated conductors with overall foil
Number of shielded pairs: 4, all twisted together with AWG 26 tinned Copper Wire
Color code pair 1: White / Blue
Color code pair 2: White / Orange
Color code pair 3: White / Green
Color code pair 4: White / Brown

5- Jacket

Material: LSZH PVC – Halogen Free Flame Retardant



Electrical characteristics

Low frequency and D.C. (at 20°C)	Specifications
D.C. resistance conductor	< 9,5 Ω/100m
Resistance unbalance: within a pair / between pairs	< 2 / < 4 %
Insulation resistance	≥ 5000 MΩ.km



Dielectric strength conductor-conductor and conductor-screen (2 sec.)	2.5 kV DC
Mutual capacitance	< 56 nF/km
Capacitance unbalance pair to ground	< 1600 pF/km
Nominal velocity of propagation (for information only)	0.6 c
Delay skew (differential delay)	≤ 40 ns/100m
Transfer impedance according IEC 61156-5	Grade 2
Coupling attenuation according IEC 61156-5	Type II

High frequency (at 20°)

Frequency [MHz]	Max. Insertion Loss (Attenuation) (/100m)	Min PSNEXT [dB]	Min PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unfitted) (Ohm)	Max./Min. Fitted Impedance (Ohm)	Min. PSANEXT	Min. PSACRF	Min. TCL [dB]	Min. ELTCL [dB]
1	2.1	73.3	71.2	70.8	68.8	20.0	100 ± 15	105 ± 10	77.0	77.0	40.0	35.0
4	3.8	64.3	60.5	58.8	56.8	23.0	100 ± 15	100 ± 15	77.0	76.2	40.0	23.0
8	5.3	59.8	54.4	52.7	50.7	24.5	100 ± 15	100 ± 15	77.0	70.1	40.0	16.9
10	5.9	58.3	52.4	50.8	48.8	25.0	100 ± 15	100 ± 15	77.0	68.2	40.0	15.0
16	7.5	55.2	47.8	46.7	44.7	25.0	100 ± 15	100 ± 15	77.0	64.1	38.0	10.9
20	8.4	53.8	45.4	44.8	42.8	25.0	100 ± 15	100 ± 15	77.0	62.2	37.0	9.0
25	9.4	52.3	43.0	42.8	40.8	25.0	100 ± 15	100 ± 15	77.0	60.2	36.0	7.0
31.25	10.5	50.9	40.4	40.9	38.9	25.0	100 ± 15	100 ± 10	77.0	58.3	35.1	
62.5	15.0	46.4	31.4	34.9	32.9	25.0	100 ± 15	100 ± 10	77.0	52.3	32.0	
100	19.1	43.3	24.2	30.8	28.8	25.0	100 ± 15	100 ± 10	72.5	48.2	30.0	
200	27.6	38.8	11.2	24.8	22.8	18.0	100 ± 22	100 ± 10	68.5	42.2	27.0	
250	31.1	37.3	6.3	22.8	20.8	17.3	100 ± 32	100 ± 10	66.5	40.2	26.0	
300	34.3	36.1	1.9	21.3	19.3	16.8	100 ± 32	100 ± 10	65.3	38.7	25.2	
350	37.2	35.1	-2.1	19.9	17.9	16.3	100 ± 32	100 ± 10	64.3	37.3	24.6	
400	40.1	34.3		18.8	16.8	15.9	100 ± 32	100 ± 10	63.5	36.2	24.0	
450	42.7	33.5		17.7	15.7	15.5	100 ± 32	100 ± 10	62.7	35.1	23.5	
500	45.3	32.8		16.8	14.8	15.2	100 ± 32	100 ± 10	62.0	34.2	23.0	
550	47.7	32.2		14.9	14.0	14.9	100 ± 32	100 ± 10	62.4	34.4		
600	50.1	31.6			13.2	14.7	100 ± 32	100 ± 10	61.8	33.6		
625	51.2	31.4			12.9	14.5	100 ± 32	100 ± 10	61.6	33.3		
750	56.7	30.2			11.3	14.0	100 ± 32	100 ± 10	60.4	31.7		
860	61.2	29.3			10.1	13.6	100 ± 32	100 ± 10	59.5	30.5		

Mechanical Characteristics

Specifications	
Bulk Cable Weight	39 lbs/1000ft



Max. Recommended Pulling Tension	40 lbs
Min. Bend Radius/Minor Axis	1.2 in
Min. Bend Radius/Installation	3.0 in

Overall Characteristics – Temperature Range

	Specifications
Installation Temp Range	+5°C To +50°C
UL Temp Rating	75°C
Storage Temp Range	-20°C To + 75°C
Operating Temp Range	-20°C To + 75°C

Overall Characteristics – Standards

	Specifications
NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMR
ISO/IEC Compliance	11801 ed 2.2 (2011) Class EA
Data Category	Category 6A
ANSI Compliance	S-116-732-2013 Category 6A, ANSI/NEMA WC-66 Category 6A
Telecommunication Standards	ANSI/TIA-568-C.2 Category 6A
IEEE Specification	POE per 802.3af & POE+ per 802.3at-2009
Other Specification	Verified Channel/Category 6A

PRODUCT Family

GLCAU6AP-B	Blue
GLCAU6AP-GY	Gray
GLCAU6AP-W	White
SLCAU6AP-OW	Off White
SLCAU6AP-GN	Green
SLCAU6AP-Y	Yellow

