

SLCAU6P-B

UTP Cable Category 6- UTP PVC

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- Cable core

Pair: 2 twisted insulated conductors
Number of unshielded 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

4- Jacket

Material: PVC - Polyvinyl Chloride
Nominal Diameter: 0.290 in
Separator Material: Polyester Tape
Ripcord: No



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 (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unfitted) (Ohm)	Max./Min. Fitted Impedance (Ohm)	Min. TCL [dB]	Min. ELTCL [dB]
1	2.0	74.3	70.3	67.8	64.8	20.0	100 ± 15	105 ± 15	40.0	35.0
4	3.8	65.3	59.5	55.7	52.7	23.0	100 ± 15	100 ± 15	40.0	23.0
8	5.3	60.8	53.4	49.7	46.7	24.5	100 ± 15	100 ± 15	40.0	16.9
10	6.0	59.3	51.4	47.8	44.8	25.0	100 ± 15	100 ± 15	40.0	15.0
16	7.6	56.3	46.7	43.7	40.7	25.0	100 ± 15	100 ± 15	38.0	10.9
20	8.5	54.8	44.3	41.7	38.7	25.0	100 ± 15	100 ± 15	37.0	9.0
25	9.5	53.3	41.8	39.8	36.8	24.3	100 ± 15	100 ± 15	36.0	7.0
31.25	10.7	51.9	39.2	37.9	34.9	23.6	100 ± 15	100 ± 15	35.1	5.1
62.5	15.4	47.4	30.0	31.8	28.8	21.5	100 ± 15	100 ± 15	32.0	
100	19.8	43.3	22.5	27.8	24.8	20.1	100 ± 15	100 ± 15	30.0	
155	25.2	41.5	14.3	23.9	20.9	18.8	100 ± 22	100 ± 15	28.1	
200	29.0	39.8	8.8	21.7	18.7	18.0	100 ± 22	100 ± 15	27.0	
250	32.8	38.3	3.5	19.8	16.8	17.3	100 ± 32	100 ± 15	26.0	

Mechanical Characteristics

	Specifications
Bulk Cable Weight	41 lbs/1000ft
Max. Recommended Puling Tension	25 lbs
Min. Bend Radius/Minor Axis	1.0 in
Min. Bend Radius/Installation	2.25 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 6
ANSI Compliance	S-116-732-2013 Category 6, ANSI/NEMA WC-66 Category 6
Telecommunication Standards	ANSI/TIA-568-C.2 Category 6
IEEE Specification	POE per 802.3af & POE+ per 802.3at-2009
Other Specification	Verified Channel/Category 6

PRODUCT Family

SLCAU6P-B	Blue
SLCAU6P-GY	Gray
SLCAU6P-W	White
SLCAU6P-OW	Off White
SLCAU6P-GN	Green
SLCAU6P-Y	Yellow

