

Category 6A U/UTP EuroClass Cca Cables

Datasheet: GD103819v11



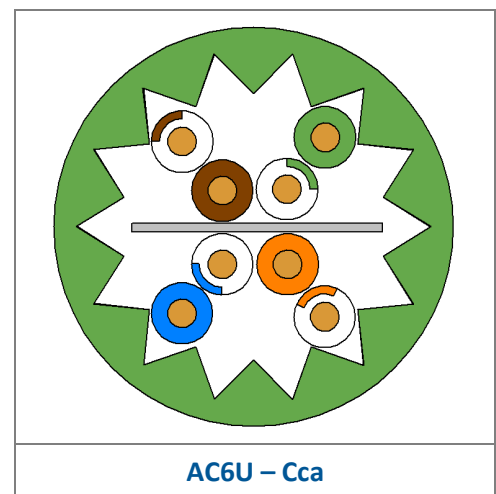
APPLICATION

Leviton Category 6A U/UTP cables exceed Category 6A performance standards. They are rated to 500MHz and are suitable for use in all Class E_A structured wiring cable systems.

The U/UTP cable construction combines superior levels of pair balance with an innovative jacket profile specially designed to reduce alien crosstalk. U/UTP cables support 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet, voice, and broadband video transmissions at frequencies up to 500MHz.

FEATURES AND BENEFITS

- 23 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- Central separator for excellent internal crosstalk performance
- Available in CPR fire performance ratings Cca and B2ca and color coded for identification
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton copper connectivity. System warranties are available for qualified projects installed by certified contractors



STANDARDS

- Designed and constructed to give optimal electrical performance to the following standards:
 - ISO/IEC 11801 Class E_A, IEC 61156-5
 - EN 50173-1 and EN 50288-11-1
 - ANSI/TIA 568.2-D
- Supports 10GBASE-T
- Meets the design requirements of 802.11ac wireless
- Recommended for PoE standards:
 - IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af
 - IEEE 802.3bt PoE Type 2 (30 Watts) formerly 802.3at
 - IEEE 802.3bt PoE Type 3 (60 Watts)
 - IEEE 802.3bt PoE Type 4 (90 Watts)
 - Cisco UPoE (60 Watts)
 - Cisco UPoE+ (90 Watts)
 - Power over HDBaseT™ PoH (95 Watts)

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REACTION TO FIRE

CHARACTERISTIC	IEC STANDARD	EN STANDARD	CPR RATING
Classification / EuroClass	-	EN 13501-6	Cca s1a d1 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Smoke Emission	IEC 61034	EN 61034	Pass
Acid Gas Emission	IEC 60754	EN 60754	Pass

PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION
Conductor Loop Resistance	Max 19 Ω /100m
Conductor Resistance Unbalance	Max 2%
Insulation Resistance	>5G Ω .km
Dielectric Strength	1000 Vdc/1 min

SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION
Velocity of Propagation	<538nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100MHz
Characteristic Impedance (fitted)	100 Ω +/- 15 Ω

ELECTRICAL PERFORMANCE

Frequency (MHz)	1	4	10	20	100	200	250	500
Insertion Loss (dB/100m) max.	2.1	3.8	5.9	8.4	19.1	27.6	31.1	45.3
NEXT (dB) min.	74.3	65.3	59.3	54.8	44.3	39.8	38.3	33.8
PSNEXT (dB) min.	72.3	63.3	57.3	52.8	42.3	37.8	36.3	31.8
ACR-F (dB) min.	67.8	55.8	47.8	41.8	27.8	21.8	19.8	13.8
PS ACR-F (dB) min.	64.8	52.8	44.8	38.8	24.8	18.8	16.8	10.8
Return Loss (dB) min.	20.0	23.0	25.0	25.0	20.1	18.0	17.3	15.2
PSANEXT (dB) min.	67.0	67.0	67.0	67.0	62.5	58.0	56.5	52.0
PSAACR-F (dB) min.	67.0	66.2	58.2	52.2	38.2	32.2	30.2	24.2

INSTALLATION

Temperature (<i>Installation</i>)	0°C to +50°C	Min Bend Radius (<i>Installation</i>)	8 x Outer Diameter
Temperature (<i>Operation</i>)	-20°C to +60°C	Min Bend Radius (<i>Operation</i>)	4 x Outer Diameter
Segregation Class	Class C	Field Test NVP Value	0.67

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STANDARD PACKAGING SPECIFICATIONS - REELS

Part Number	Packaging Length (m)	Color	Nominal Diameter (mm)	Nominal Weight (kg/km)	Reel Size Flange Diameter x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
AC6U-Cca-500GN1	500	Green†	7.9	65	400 x 410	35.3	12

† Also available in a range of non-standard colors

*“Leviton is **dedicated to designing, developing, and manufacturing** sustainable **high performance** structured cabling and specialty **cabling solutions.**”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.