

# Category 6 U/UTP 24AWG EuroClass Cca Cables

Datasheet: GD105076v4



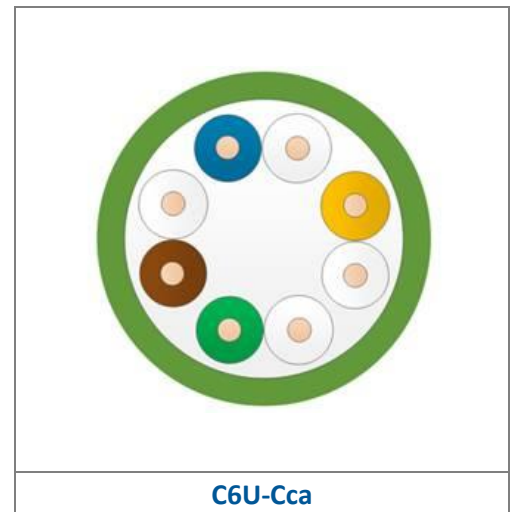
## APPLICATION

Leviton's Category 6 U/UTP 24AWG cables meet Category 6 performance standards. They are rated to 250MHz and are suitable for use in all Class E structured wiring cable systems. This cable supports Gigabit Ethernet, Power over Ethernet, voice, and broadband video transmissions at frequencies up to 250MHz.

## FEATURES AND BENEFITS

- 24 AWG solid annealed copper wire
- Polyolefin core Insulation
- 4 unshielded twisted pairs cabled together
- Designed to support all class E protocols including Gigabit Ethernet
- HFFR-LS\* jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Cca
- Included in the Leviton 25-Year System Warranty when used in conjunction with Leviton copper connectivity. System warranties are available for qualified projects installed by certified contractors
- Reel and box packaging is 100% recyclable

\* Halogen Free Flame Retardant – Low Smoke



## STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
  - ISO/IEC 11801 Class E, IEC 61156-5
  - EN50173-1 and EN 50288-6-1
  - ANSI/TIA 568.2-D
- Supports Gigabit Ethernet
- 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)

## REACTION TO FIRE

CHARACTERISTIC	STANDARD	RATING
Single Cable Flame Rating	IEC/EN 60332-1-2	Pass
Acid Gas Emission / Acidity	EN 50267-2-3	Pass
Classification / EuroClass	EN 13501-6	C <sub>ca</sub> s1a d1 a1

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## PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19 $\Omega$ / 100m	16 $\Omega$ / 100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5G $\Omega$ .km	>50G $\Omega$ .km
Dielectric Strength	2500 Vdc/2secs	Pass

## SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Velocity of Propagation	<534nsec/100m @ 100MHz	490nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @100MHz	30nsec/100m @ 100MHz
Mean Characteristic Impedance	100 $\Omega$ +/- 5 $\Omega$ @ 100MHz	100 $\Omega$ $\pm$ 3 $\Omega$ @ 100MHz
Transverse Conversion Loss (TCL)	$\geq$ 50-10log(f)dB	61dB @ 10MHz

## ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	20	100	200	250
Insertion Loss (dB/100m)	Standard	2.0	3.8	6.0	8.5	19.9	29.0	32.8
NEXT (dB)	Standard	75.3	66.3	60.3	55.8	45.3	40.8	39.3
PSNEXT (dB)	Standard	72.3	63.3	57.3	52.8	42.3	37.8	36.3
ACR-F (dB)	Standard	67.8	58.0	50.0	44.0	30.0	24.0	22.0
PSACR-F (dB)	Standard	64.8	55.0	47.0	42.0	27.0	21.0	19.0
Return Loss (dB)	Standard	20.0	23.0	25.0	25.0	20.1	18.0	17.3

- The standard values shown are the most demanding taken from across the relevant IEC, TIA and EN specifications. These standards values are the maximum permissible for Insertion loss and the minimum permissible for other parameters.

## INSTALLATION

Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-20°C to +60°C
Max Tensile Load (Installation)	10kg
Segregation Class	Class B

Min Bend Radius (Installation)	8 x Outer diameter
Min Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.68
Nominal Jacket Wall Thickness (mm)	0.8

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## STANDARD PACKAGING SPECIFICATIONS - REELS

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange x width (mm)	Gross Weight (kg/Item)	Items Per Double Pallet
C6U-Cca-500GN4	500	Green†	5.8	41.0	400 x 320	22.5	36

## STANDARD PACKAGING SPECIFICATIONS - BOXES

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Box Size L x W x H (mm)	Gross Weight (kg/Item)	Items Per Double Pallet
C6U-Cca-B305GN4	305	Green†	5.8	41.0	405 x 265 x 372	13.2	45

†Also available in a range of non-standard colors

## COUNTRY OF ORIGIN

COO: United Kingdom

*“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.