

Category 6 U/UTP EuroClass Cca Cables

Datasheet: GD104132v6



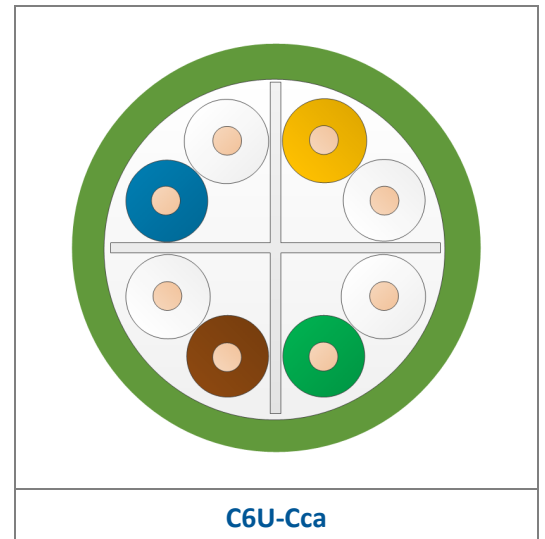
APPLICATION

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

FEATURES AND BENEFITS

- 23 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- Central separator for increased internal crosstalk performance
- HFFR-LS* jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Cca
- 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
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

* 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 586.2-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)

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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 | TYPICAL PERFORMANCE @ 20°C |
|--------------------------------|----------------|----------------------------|
| Conductor Loop Resistance | Max 19 Ω/100m | 16 Ω/100m |
| Conductor Resistance Unbalance | Max 2% | 0.1% |
| Insulation Resistance | >5GΩ.km | >50GΩ.km |
| Dielectric Strength | 2500 Vdc/2secs | Pass |

SECONDARY ELECTRICAL PARAMETERS

| CHARACTERISTIC | SPECIFICATION | TYPICAL PERFORMANCE @ 20°C |
|----------------------------------|-------------------------|----------------------------|
| Velocity of Propagation | <534nsec/100m @ 100MHz | 505nsec/100m @ 100MHz |
| Delay Skew | Max 45nsec/100m @100MHz | 30nsec/100m @ 100MHz |
| Mean Characteristic Impedance | 100Ω +/- 5Ω @ 100MHz | 100Ω ± 3Ω @ 100MHz |
| Transverse Conversion Loss (TCL) | ≥50-10log(f)dB | 61dB @ 10MHz |

ELECTRICAL PERFORMANCE

| Frequency (MHz) | | 1 | 4 | 10 | 20 | 100 | 200 | 250 |
|------------------------------|----------|------|------|------|------|------|------|------|
| Insertion Loss (dB/100m) max | Standard | 2.0 | 3.8 | 6.0 | 8.5 | 19.8 | 29.0 | 32.8 |
| NEXT (dB) min | Standard | 74.3 | 65.3 | 59.3 | 54.8 | 44.3 | 39.8 | 38.3 |
| PSNEXT (dB) min | Standard | 72.3 | 63.3 | 57.3 | 52.8 | 42.3 | 37.8 | 36.3 |
| ACR-F (dB) min | Standard | 67.8 | 55.8 | 47.8 | 41.8 | 27.8 | 21.8 | 19.8 |
| PSACR-F (dB) min | Standard | 64.8 | 52.8 | 44.8 | 38.8 | 24.8 | 18.8 | 16.8 |
| Return Loss (dB) min | Standard | N/A | 23.0 | 25.0 | 25.0 | 20.1 | 18.0 | 17.3 |

INSTALLATION

| | | | |
|---------------------------------|----------------|--------------------------------|--------------------|
| Temperature (Installation) | 0°C to +50°C | Min Bend Radius (Installation) | 8 x Outer Diameter |
| Temperature (Operation) | -20°C to +75°C | Min Bend Radius (Operation) | 4 x Outer Diameter |
| Max Tensile Load (Installation) | 10kg | Field Test NVP Value | 0.66 |
| Segregation Class | Class B | | |

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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 Diameter x Width (mm) | Gross Weight (kg/Item) | Items Per Pallet |
|----------------|----------------------|--------|-----------------------------|------------------------------|--|------------------------|------------------|
| C6U-Cca-500GN | 500 | Green† | 6.15 | 44.9 | 400 x 310 | 24.5 | 18 |
| C6U-Cca-1000GN | 1000 | Green† | 6.15 | 44.9 | 465 x 390 | 47.9 | 6 |

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 Pallet |
|-------------------|----------------------|--------|-----------------------------|------------------------------|-------------------------------|------------------------|------------------|
| C6U-Cca-Rlx-305GN | 305 | Green† | 6.15 | 44.9 | 435 x 265 x 405 | 14.4 | 21/14†† |

† Also available in a range of non-standard colors

†† 3 layers / 2 layers

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.