

Category 6A U/UTP EuroClass Dca Cables

Datasheet: SS1337-AP-EU-ME ENv1



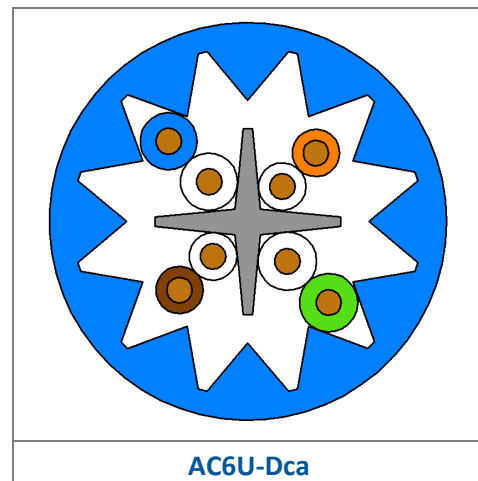
APPLICATION

Leviton Category 6A U/UTP cables exceed the Category 6A performance standards. They are rated to 500MHz and are suitable for use in all Class EA structured wiring cable systems. Category 6A 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
- HFFR-LS* jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Dca (LSHF/LSZH) and UL Riser rating (CMR)
- CE marked for CPR
- 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

*Halogen Free Flame Retardant – Low Smoke



STANDARDS

- Designed and constructed to give optimal electrical performance to the following standards:
 - ISO/IEC 11801 Class EA, 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 and IEEE 802.3bt PoE Type 2 (30 Watts) formerly 802.3at
 - IEEE 802.3bt PoE Type 3 (60 Watts) and IEEE 802.3bt PoE Type 4 (90 Watts)
 - Cisco UPoE (60 Watts), Cisco UPoE+ (90 Watts) and Power over HDBaseT™ PoH (95 Watts)

REACTION TO FIRE

| CHARACTERISTIC | IEC STANDARD | EN STANDARD | UL RATING | CPR RATING |
|----------------------------|---------------|--------------|---------------|---------------------------|
| Classification/EuroClass | - | EN 13501-6 | - | Dca s1a d2 a1 |
| Single Cable Flame Rating | IEC 60332-1-2 | EN 60332-1-2 | - | Pass |
| Smoke Emission | - | EN 13501-6 | - | s1a |
| | | EN 61034-2 | - | Light transmittance ≥ 80% |
| Acid Gas Emission | IEC 60754 | EN 60754 | - | Pass |
| Bundled Cable Flame Rating | - | - | UL 1666 Riser | - |

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PRIMARY ELECTRICAL PARAMETERS

| CHARACTERISTIC | SPECIFICATION |
|--------------------------------|-----------------------|
| Conductor Loop Resistance | Max 19 Ω /100m |
| Conductor Resistance Unbalance | Max 2% |
| Insulation Resistance | >5G Ω .km |
| Dielectric Strength | 2500 Vdc/2secs |

SECONDARY ELECTRICAL PARAMETERS

| CHARACTERISTIC | SPECIFICATION |
|-----------------------------------|--------------------------------------|
| Velocity of Propagation | <538nsec/100m @ 100MHz |
| Delay Skew | Max 45nsec/100m @ 100MHz |
| Characteristic Impedance (Fitted) | 100 Ω +/- 5 Ω @ 100MHz |

ELECTRICAL PERFORMANCE

| Frequency (MHz) | | 1 | 4 | 10 | 20 | 100 | 200 | 250 | 500 | 550 |
|--------------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Insertion Loss (dB/100m) | Standard | 2.1 | 3.8 | 5.9 | 8.4 | 19.1 | 27.6 | 31.1 | 45.3 | N/A |
| | Typical | 2.0 | 3.8 | 5.8 | 7.9 | 18.1 | 26.0 | 29.4 | 42.7 | 45.2 |
| NEXT (dB) | Standard | 75.3 | 66.3 | 60.3 | 55.8 | 45.3 | 40.8 | 39.3 | 34.8 | N/A |
| | Typical | 98.6 | 92.2 | 86.5 | 82.0 | 71.8 | 67.3 | 65.5 | 56.0 | 55.3 |
| PSNEXT (dB) | Standard | 72.3 | 63.3 | 57.3 | 52.8 | 42.3 | 37.8 | 36.3 | 31.8 | N/A |
| | Typical | 91.0 | 83.7 | 78.8 | 73.7 | 63.8 | 60.0 | 58.4 | 48.7 | 47.1 |
| ACR-F (dB) | Standard | 68.0 | 56.0 | 48.0 | 42.0 | 28.0 | 22.0 | 20.0 | 14.0 | N/A |
| | Typical | 91.1 | 83.1 | 75.3 | 69.0 | 54.8 | 48.2 | 45.8 | 38.3 | 37.9 |
| PSACR-F (dB) | Standard | 65.0 | 53.0 | 45.0 | 39.0 | 25.0 | 19.0 | 17.0 | 11.0 | N/A |
| | Typical | 83.5 | 75.5 | 68.0 | 62.0 | 47.6 | 41.3 | 39.2 | 31.5 | 31.0 |
| Return Loss (dB) | Standard | 20.0 | 23.0 | 25.0 | 25.0 | 20.1 | 18.0 | 17.3 | 17.3 | N/A |
| | Typical | 29.3 | 34.4 | 35.5 | 36.3 | 36.3 | 36.2 | 34.1 | 29.7 | 28.9 |
| PSANEXT (dB) | Standard | 67.0 | 67.0 | 67.0 | 67.0 | 62.5 | 58.0 | 56.5 | 52.0 | N/A |
| | Typical | 87.6 | 84.4 | 79.4 | 76.1 | 69.9 | 68.5 | 68.1 | 61.5 | 59.9 |
| PSAACR-F (dB) | Standard | 67.0 | 66.2 | 58.2 | 52.2 | 38.2 | 32.2 | 30.2 | 24.2 | N/A |
| | Typical | 81.9 | 72.4 | 64.9 | 58.8 | 44.9 | 38.8 | 37.1 | 29.4 | 28.3 |

- The standard values shown are the most demanding taken from the relevant IEC, TIA and EN specifications. These standard values are the maximum permissible for Insertion loss and the minimum permissible for other parameters
- N/A – Not Applicable

INSTALLATION

| | | | |
|---------------------------------|----------------|--------------------------------|--------------------|
| Temperature (Installation) | 0°C to +50°C | Min Bend Radius (Installation) | 8 x Outer Diameter |
| Temperature (Operation) | -20°C to +60°C | Min Bend Radius (Operation) | 4 x Outer Diameter |
| Max Tensile Load (Installation) | 10kg | Field Test NVP Value | 0.69 |
| Segregation Class | Class C | | |

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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-Dca-305BU2 | 305 | Blue† | 7.9 | 65.6 | 400 x 300 | 22.0 | 18 |
| AC6U-Dca-500BU2 | 500 | Blue† | 7.9 | 65.6 | 460 x 380 | 35.8 | 6 |

† 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.