

# Category 6A U/UTP EuroClass Dca Cables

Datasheet: GD104464v3



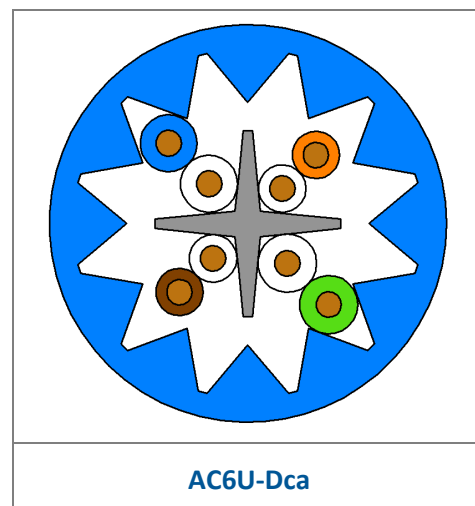
## APPLICATION

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)
- 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
  - 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	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 50399	-	s1a
Acid Gas Emission	IEC 60754	EN 60754	-	Pass
Bundled Cable Flame Rating	-	-	UL 1666 Riser	-

## PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION
Conductor Loop Resistance	Max 19 $\Omega$ /100m
Conductor Resistance Unbalance	Max 2%
Insulation Resistance	>5G $\Omega$ .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 $\Omega$ +/- 5 $\Omega$ @ 100MHz

## ELECTRICAL PERFORMANCE

Frequency (MHz)	1	4	10	20	100	200	250	500
Insertion Loss (dB/100m)	2.1	3.8	5.9	8.4	19.1	27.6	31.1	45.3
NEXT (dB)	74.3	65.3	59.3	54.8	44.3	39.8	38.3	33.8
PSNEXT (dB)	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/100m) min.	64.8	52.8	44.8	38.8	24.8	18.8	16.8	10.8
Return Loss (dB)	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 (Installation)	0°C to +50°C	Min Bend Radius (Installation)	8x Outer Diameter
Temperature (Operation)	-20°C to +75°C	Min Bend Radius (Operation)	4x Outer Diameter
Segregation Class	Class C	Field Test NVP Value	0.69

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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	67.1	400 x 300	22.5	18
AC6U-Dca-500BU2	500	Blue†	7.9	67.1	460 x 380	36.6	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.