Category 6 U/UTP EuroClass Dca Cables

Datasheet: GD103630v7

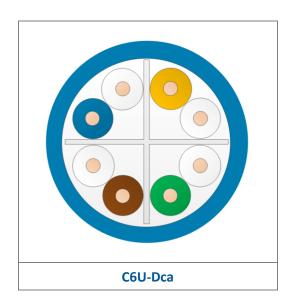


APPLICATION

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* sheath enables cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Dca
- 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



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 568C.2
- Supports Gigabit Ethernet
- Recommended for PoE standards: IEEE 802.3af, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts

FIRE CLASSIFICATION

CHARACTERISTIC	IEC STANDARD	EN STANDARD	CPR RATING
Reaction to Fire Classification/EuroClass	-	EN 13501-6	Dca s2 d2 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Smoke Emission	-	EN 50399	s2
Acid Gas Emission	IEC 60754	EN 60754	Pass

^{*} Halogen Free Flame Retardant – Low Smoke

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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	490nsec/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	500	550
Insertion Loss	Standard	2.1	3.8	6.0	8.5	19.9	29.1	33.0	N/A	N/A
(dB/100m)	Typical	1.9	3.5	5.5	7.8	18.0	26.1	29.4	43.0	45.4
NEVT (AD)	Standard	66.0	65.3	59.3	54.8	44.3	39.8	38.3	N/A	N/A
NEXT (dB)	Typical	86.5	77.5	71.5	67.0	56.5	52.0	50.5	46.0	45.4
DCNEVT (AD)	Standard	64.0	63.3	57.3	52.8	42.3	37.8	36.3	N/A	N/A
PSNEXT (dB)	Typical	84.5	75.5	69.5	65.0	54.5	50.0	48.5	44.0	43.4
ACD E (-ID)	Standard	66.0	58.0	50.0	44.0	30.0	24.0	22.0	N/A	N/A
ACR-F (dB)	Typical	85.0	73.0	65.0	59.0	45.0	39.0	37.0	31.0	30.2
DCACD = (-ID)	Standard	64.0	55.0	47.0	41.0	27.0	21.0	19.0	N/A	N/A
PSACR-F (dB)	Typical	82.0	70.0	62.0	56.0	42.0	36.0	34.0	28.0	27.2
Datum Lasa (dD)	Standard	N/A	23.0	25.0	25.0	20.1	18.0	17.3	N/A	N/A
Return Loss (dB)	Typical	27.0	30.0	30.0	30.0	25.1	23.0	22.3	20.2	19.9
ACR (dB)	Typical	84.6	73.9	66.0	59.1	38.5	25.9	21.1	3.0	0.0
PSACR (dB/100m)	Typical	82.6	71.9	64.0	57.1	36.5	23.9	19.1	1.0	-2.0

INSTALLATION

Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-20°C to +75°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	0.69
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PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company C6U-Dca Cat 6 U/UTP EN 50399 EuroClass Dca s2 d2 a1 NVP 0.69 MADE IN UK [ID number] [Week/Year]

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 Pallet
C6U-Dca-500BU	500	Blue+	5.8	38.2	400 x 310	21.1	18
C6U-Dca-1000BU	1000	Blue+	5.8	38.2	465 x 390	40.5	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-Dca-Rlx-305BU	305	Blue+	5.8	38.2	405 x 265 x 405	11.6	27 or 18 ++

[†] Also available in a range of non-standard colors

"Leviton is **dedicated** to **designing**, **developing** and **manufacturing** sustainable **high performance** structured cabling and speciality **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.

^{††} Double or single stacked pallets