

Category 5e UTP EuroClass Dca Cables

Datasheet: GD103609v6



APPLICATION

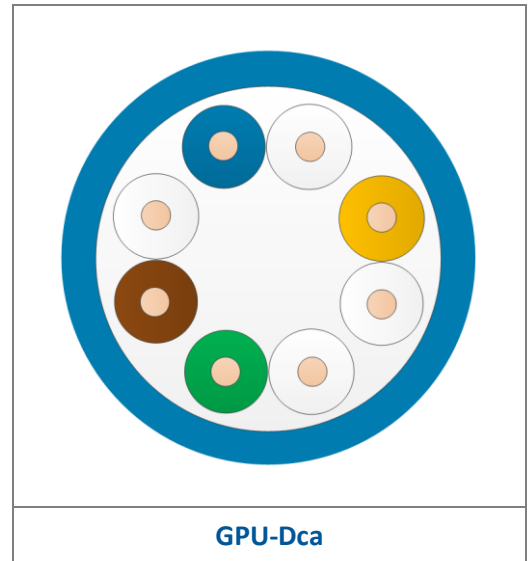
Leviton Category 5e UTP cables exceed Category 5e performance standards. They are rated to 100MHz and are suitable for use in all Class D structured wiring cable systems. GPU cables support Gigabit Ethernet, Power over Ethernet and voice transmissions at frequencies up to 100MHz.

FEATURES AND BENEFITS

- 24 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- Blue† 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.

* Halogen Free Flame Retardant – Low Smoke

† Also available in a range of non-standard colors



STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
 - ISO/IEC 11801 Class D, IEC 61156-2
 - EN50173-1 and EN 50288-3-1
- Supports Gigabit Ethernet
- Supports Power over Ethernet (PoE) and Power over Ethernet Plus (PoE+) applications

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

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PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19 Ω/100m	18 Ω/100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5GΩ.km	>45GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass

SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Propagation Delay	<534nsec/100m @ 100MHz	487nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @100MHz	38nsec/100m @100MHz
Mean Characteristic Impedance	100Ω ± 5Ω @ 100MHz	100Ω ± 3Ω @ 100MHz
Transverse Conversion Loss (TCL)	≥50-10log(f)dB	65dB @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	16	20	31.25	100	200	250
Insertion Loss (dB/100m)	Standard	2.0	4.1	6.5	8.2	9.3	11.7	22.0	N/A	N/A
	Typical	1.9	3.8	6.0	7.7	8.6	10.9	20.6	30.4	34.6
NEXT (dB)	Standard	65.3	56.3	50.3	47.2	45.8	42.9	35.3	N/A	38.3
	Typical	76.8	67.8	61.8	58.7	57.3	54.4	46.8	42.3	40.8
PSNEXT (dB)	Standard	62.3	53.3	47.3	44.2	42.8	39.9	32.3	N/A	N/A
	Typical	73.8	64.8	58.8	55.7	54.3	51.4	43.8	39.3	37.8
ELFEXT (dB)	Standard	63.8	51.8	43.8	39.7	37.8	33.9	23.8	N/A	N/A
	Typical	81.4	69.4	61.4	57.3	55.4	51.5	41.4	35.4	33.4
PSELFEXT (dB)	Standard	60.8	48.8	40.8	36.7	34.8	30.9	20.8	N/A	N/A
	Typical	78.4	66.4	58.4	54.3	52.4	48.5	38.4	32.4	30.4
Return Loss (dB)	Standard	20.0	23.0	25.0	25.0	25.0	23.6	20.1	N/A	N/A
	Typical	24.8	27.8	29.8	29.8	29.8	28.4	24.9	22.8	22.1
ACR (dB)	Typical	74.9	64.0	55.8	51.1	48.7	43.4	26.2	11.9	6.2
PSACR (dB)	Typical	71.9	61.0	52.8	48.1	45.7	40.4	23.2	8.9	3.2

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 GPU-Dca Cat 5e 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
GPU-Dca-500BU	500	Blue†	5.05	32.2	400 x 400 x 210	17.6	24
GPU-Dca-1000BU	1000	Blue†	5.05	32.2	400 x 400 x 390	34.7	12

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
GPU-Dca-Rlx-305BU	305	Blue†	5.05	32.2	365 x 250 x 365	9.9	27 or 18 ††

† Also available in a range of non-standard colors

†† Double or single stack pallets

*“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.