

Category 6 U/UTP EuroClass Dca/CMR Cables

Datasheet: SS1334-AP-EU-ME ENv1



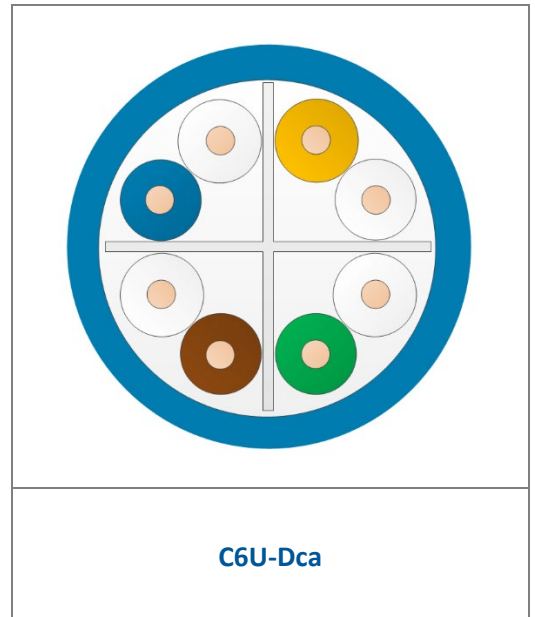
APPLICATION

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 Dca and UL 1666 Riser (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
- Designed and manufactured in a carbon neutral facility in the UK
- Reel and box packaging are 100% recyclable

* 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 568.2-D
- Supports Gigabit Ethernet. 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)
 - Exceeds IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously
 - Cisco UPoE (60 Watts), Cisco UPoE+ (90 Watts) and 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 50575, EN 13501-6	-	Dca s2 d2 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	-	Pass
Smoke Emission	-	EN 13501-6	-	s2
		EN 61034-2	-	Light transmittance \geq 80%
Acid Gas Emission	IEC 60754	EN 60754	-	a1
Bundled Cable Flame Rating	-	-	UL 1666 Riser (CMR)	-

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	>5G Ω .km	>50G Ω .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	25nsec/100m @ 100MHz
Mean Characteristic Impedance	100 Ω +/- 5 Ω @ 100MHz	100 Ω \pm 3 Ω @ 100MHz
Transverse Conversion Loss (TCL)	\geq 50-10log(f)dB	61dB @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	20	100	200	250	500	550
Insertion Loss (dB/100m)	Standard (Max)	2.0	3.8	6.0	8.5	19.8	29.0	32.8	N/A	N/A
	Typical	1.7	3.5	5.6	8.0	18.9	27.6	31.1	43.0	45.4
NEXT (dB)	Standard (Min)	75.3	66.3	60.3	55.8	45.3	40.8	39.3	N/A	N/A
	Typical	91.0	91.5	86.0	80.4	69.2	64.0	64.1	46.0	45.4
PSNEXT (dB)	Standard (Min)	72.3	63.3	57.3	52.8	42.3	37.8	36.3	N/A	N/A
	Typical	83.7	84.2	78.0	71.9	61.9	57.3	57.0	44.0	43.4
ACR-F (dB)	Standard (Min)	67.8	58.0	50.0	44.0	30.0	24.0	22.0	N/A	N/A
	Typical	91.2	83.7	75.8	68.2	52.3	47.8	45.0	31.0	30.2
PSACR-F (dB)	Standard (Min)	64.8	55.0	47.0	42.0	27.0	21.0	19.0	N/A	N/A
	Typical	84.8	76.4	68.4	61.4	46.4	42.4	39.6	28.0	27.2
Return Loss (dB)	Standard (Min)	20.0	23.0	25.0	25.0	20.1	18.0	17.3	N/A	N/A
	Typical	34.0	36.5	39.1	41.6	37.1	31.3	30.2	20.2	19.9

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- The standard values shown are the most demanding taken from across the relevant IEC, TIA and EN specifications. These standards 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 +75°C	Min Bend Radius (Operation)	4 x Outer Diameter
Max Tensile Load (Installation)	10kg	Field Test NVP Value	0.69
Segregation Class	Class B		

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-Dca-500BU	500	Blue†	5.8	39.7	400 x 310	21.9	18
C6U-Dca-1000BU	1000	Blue†	5.8	39.7	465 x 390	42.7	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-RIx-305BU	305	Blue†	5.8	39.7	405 x 265 x 372	12.8	27 or 18 ††

† 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.