

Category 7 S/FTP EuroClass Cca Cables

Datasheet: GD103155v12

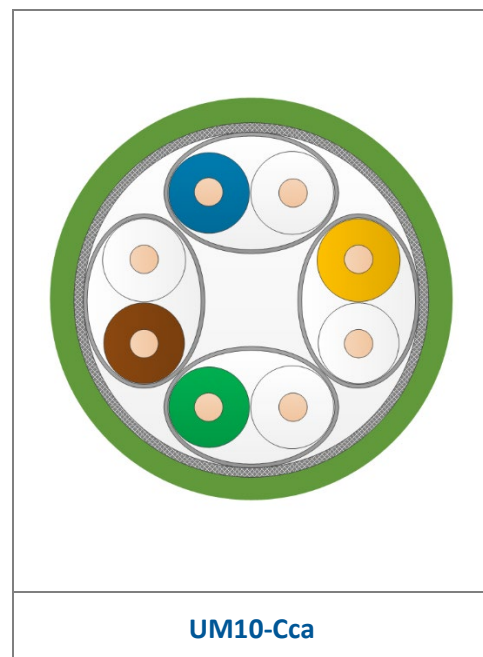


APPLICATION

Leviton Category 7 S/FTP cables exceed Category 7 performance standards. They are specified to 600MHz and rated to 1000MHz and are suitable for use in all Class F structured wiring cable systems. The applications supported include 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet, and broadband video transmissions at frequencies up to 600MHz.

FEATURES AND BENEFITS

- 23 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Twisted pairs color coded in accordance with EN 50288-1
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Designed to Support all Class F protocols including 10GBASE-T
- Enhanced HFFR-LS* jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Cca
- Green† jacket to identify EuroClass level Cca
- 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 optimal electrical performance to the following standards:
 - ISO/IEC 11801 Class F, IEC 61156-5
 - EN 50173-1 and EN 50288-4-1
- Supports 10GBASE-T
- 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	STANDARD	RATING	DUPLEX RATING
IEC 60332 Cable Flame Rating	IEC 60332-1-2 IEC 60332-3-24	Pass Pass	Pass N/A
Smoke Production	EN 61034	Pass	Pass
Acid Gas Emission/Acidity	EN 50267-2-3	Pass	Pass
Classification/EuroClass	EN 13501-6	Cca s1a d0 a1	Cca s1a d1 a1

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PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19 Ω/100m	14Ω/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	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Mean Characteristic Impedance	100Ω +/- 5Ω @ 100MHz	100Ω ± 3Ω @ 100MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	8mΩ/m @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	100	200	250	500	600	1000
Insertion Loss (dB/100m)	Standard (Max)	2.0	3.6	5.7	18.5	26.8	30.2	44.1	48.9	N/A
	Typical	1.9	3.5	5.5	18.0	26.1	29.4	43.0	47.6	63.8
NEXT (dB)	Standard (Min)	80.0	80.0	80.0	72.4	67.9	66.5	61.9	60.8	N/A
	Typical	100.0	100.0	100.0	94.3	88.9	87.1	81.7	80.3	76.3
PSNEXT (dB)	Standard (Min)	77.0	77.0	77.0	69.4	64.9	63.5	58.9	57.8	N/A
	Typical	97.0	97.0	97.0	91.3	85.9	84.1	78.7	77.3	73.3
ACR-F (dB)	Standard (Min)	80.0	80.0	74.0	54.0	48.0	46.0	40.0	38.4	N/A
	Typical	90.0	90.0	90.0	70.8	64.8	62.8	56.8	55.2	50.8
PSACR-F (dB)	Standard (Min)	77.0	77.0	71.0	51.0	45.0	43.0	37.0	35.4	N/A
	Typical	87.0	87.0	87.0	67.8	61.8	59.8	53.8	52.2	47.8
Return Loss (dB)	Standard (Min)	N/A	23.0	25.0	20.1	18.0	17.3	17.3	18.3	N/A
	Typical	27.0	30.0	30.0	25.1	23.0	22.3	20.2	19.7	18.1
PSANEXT (dB)	Typical	98.1	96.5	94.5	76.3	62.8	57.7	38.7	32.6	12.5
PSAACR-F (dB)	Typical	95.1	93.5	91.5	73.3	59.8	54.7	35.7	29.6	9.5

INSTALLATION

Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-20°C to +75°C
Max Tensile Load (Installation)	10kg per simplex cable
Segregation Class	Class D

Min Bend Radius (Installation)	8 x Outer Diameter
Min Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.80

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STANDARD PACKAGING SPECIFICATIONS

Part Number	Packaging Length (m)	Color	Nominal Cable Dimensions (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
UM10-Cca-500GN	500	Green†	7.2	52.7	400 x 390	28.9	12
UM10-Cca-1000GN	1000	Green†	7.2	52.7	600 x 405	59.2	4
UM10-Cca-D500GN††	500	Green†	7.1 x 14.4	102.2	600 x 405	57.6	4

† Also available in a range of non-standard colors

†† Duplex Cable

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.