

Category 7A S/FTP EuroClass Dca Cables

Datasheet: GD103888v5



APPLICATION

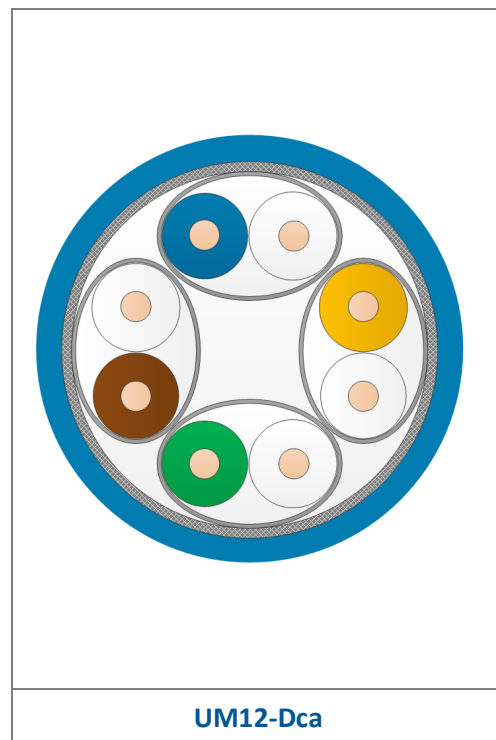
Leviton Category 7A S/FTP cables exceed Category 7A performance standards. They are specified to 1000MHz and rated to 1200MHz and are suitable for use in all Class F_A structured wiring cable systems. The applications supported include 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet, and broadband video transmissions at frequencies up to 1000MHz.

FEATURES AND BENEFITS

- 22 AWG solid annealed copper wire
- Gas injection foamed polyolefin core insulation – offering superior signal speed
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Pairs color coded in accordance with EN 50288-1
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Blue† HFFR-LS* jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) EuroClass Dca
- Designed to support all Class F_A protocols including 10GBASE-T
- 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 F_A, IEC 61156-5
 - EN50173-1 and EN 50288-9-1
- 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	STANDARD	RATING
Single Cable Flame Rating	IEC/EN 60332-1-2	Pass
Smoke Production	EN 61034	Pass
Acid Gas Emission/Acidity	EN 50267-2-3	Pass
Classification / EuroClass	EN 13501-6	Dca s1a d1 a1

PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19 Ω /100m	12 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	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Mean Characteristic Impedance	100 Ω +/- 5 Ω @ 100MHz	100 Ω \pm 3 Ω @ 100MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	7m Ω /m @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	100	250	500	600	1000	1200
Insertion Loss (dB/100m)	Standard	N/A	3.7	5.8	18.5	29.7	42.8	47.1	61.9	N/A
	Typical	1.9	3.4	5.3	16.7	26.9	38.7	42.7	56.2	62.1
NEXT (dB)	Standard	78.0	78.0	78.0	75.4	69.4	64.9	63.7	60.4	N/A
	Typical	100.0	100.0	100.0	100.0	97.2	91.8	90.4	86.4	85.0
PSNEXT (dB)	Standard	75.0	75.0	75.0	72.4	66.4	61.9	60.7	57.4	N/A
	Typical	90.0	90.0	90.0	90.0	88.0	83.5	82.3	79.0	77.8
ELFEXT (dB/100m)	Standard	78.0	78.0	78.0	65.3	57.3	51.3	49.7	45.3	N/A
	Typical	100.0	99.0	91.0	71.0	63.0	57.0	55.4	51.0	49.4
PSELFEXT (dB/100m)	Standard	75.0	75.0	75.0	62.3	54.3	48.3	46.7	42.3	N/A
	Typical	90.0	90.0	84.5	64.5	56.5	50.5	48.9	44.5	42.9
Return Loss (dB)	Standard	N/A	23.0	25.0	20.1	17.3	17.3	17.3	15.1	N/A
	Typical	30.0	33.0	36.0	35.1	32.3	31.3	30.5	28.3	27.5
ACR (dB/100m)	Typical	98.1	96.6	94.7	83.3	70.4	53.1	47.7	30.2	22.8
PSACR (dB/100m)	Typical	88.1	86.6	84.7	73.3	61.2	44.8	39.6	22.8	15.7

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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	0.80
Segregation Class	Class D		

STANDARD PACKAGING SPECIFICATIONS

Part Number	Package Length (m)	Color	Nominal Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Diameter x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
UM12-Dca-500BU [†]	500	Blue [†]	7.2	61.5	400 x 390	33.2	12
UM12-Dca-1000BU [†]	1000	Blue [†]	7.2	61.5	600 x 405	68.0	4

[†] 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.