

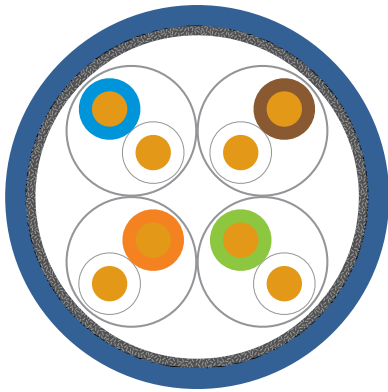
PRODUCT SPECIFICATIONS

AC7SF Cat 7A S/FTP Euroclass Dca Cables

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APPLICATION

Leviton AC7SF Cat 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 (PoE), and broadband video transmissions at frequencies up to 1000MHz.



FEATURES & 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
- 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

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class F_A, IEC 61156-5
- EN50173-1 and EN 50288-9-1
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

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TECHNICAL SPECIFICATIONS		
Primary Electrical Properties (20 °C)		
CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Conductor Loop Resistance	Max 19 Ω/100m	12Ω/100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5GΩ.km	>50GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass
Secondary Electrical Properties (20 °C)		
CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Velocity of Propagation	<534nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Characteristic Impedance (Fitted)	100Ω +/- 5Ω @ 100MHz	100Ω ± 3Ω @ 100 MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	7mΩ/m @ 10MHz

MECHANICAL SPECIFICATIONS	
Usage Characteristics	
Category	Cat 7
Type of Cable	S/FTP
Temp. (Installation)	0 °C to +50 °C
Temp. (Operating)	-20 °C to +75 °C

TECHNICAL DATA - PHYSICAL	
Max Tensile Load (Installation)	10kg
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

REACTION TO FIRE			
Characteristics	IEC STANDARD	EN STANDARD	CPR RATING
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Classification / Euroclass	—	EN 13501-6	Dca s1a d1 a1

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		IL (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	20.0	30.0	78.0	100.0	75.0	90.0	2.0	1.9
4	23.0	33.0	78.0	100.0	75.0	90.0	3.7	3.4
10	25.0	36.0	78.0	100.0	75.0	90.0	5.8	5.3
100	20.1	35.1	75.4	100.0	72.4	90.0	18.5	16.7
250	17.3	32.3	69.4	97.2	66.4	88.0	29.7	26.9
500	17.3	31.3	64.9	91.8	61.9	83.5	42.8	38.7
600	17.3	30.5	63.7	90.4	60.7	82.3	47.1	42.7
1000	15.1	28.3	60.4	86.4	57.4	79.0	61.9	56.2
1200	—	27.5	—	85.0	—	77.8	—	62.1

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	ACRF (dB)		PSACRF (dB)		PSA NEXT (dB)		PSAACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	78.0	100.0	75.0	90.0	67.0	98.1	67.0	88.1
4	78.0	99.0	75.0	90.0	67.0	96.6	67.0	86.6
10	78.0	91.0	75.0	84.5	67.0	94.7	67.0	84.7
100	65.3	71.0	62.3	64.5	67.0	83.3	53.2	73.3
250	57.3	63.0	54.3	56.5	67.0	70.4	45.2	61.2
500	51.3	57.0	48.3	50.5	67.0	53.1	39.2	44.8
600	49.7	55.4	46.7	48.9	65.8	47.7	37.6	39.6
1000	45.3	51.0	42.3	44.5	62.5	30.2	33.2	22.8
1200	—	49.4	—	42.9	—	22.8	—	15.7

- The standard values shown are the most demanding taken from the relevant IEC, TIA and EN specifications. These standard values are the maximum permissible for Insertion loss and the minimum permissible for other parameters
- N/A – Not Applicable

PART NUMBER

Description	Color	Length (m)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Packaging				Part No.
					Type	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet	
AC7SF Cat 7 S/FTP Cable, Euroclass Dca	Blue†	500	7.2	61.5	Reel	465 x 390	33.2	12	UM12-Dca-500BU†
AC7SF Cat 7 S/FTP Cable, Euroclass Dca	Blue†	1000	7.2	61.5	Reel	600 x 405	68.0	4	UM12-Dca-1000BU†

† Also available in a range of non-standard colors

For further support information, visit Leviton.com/ns/support

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