

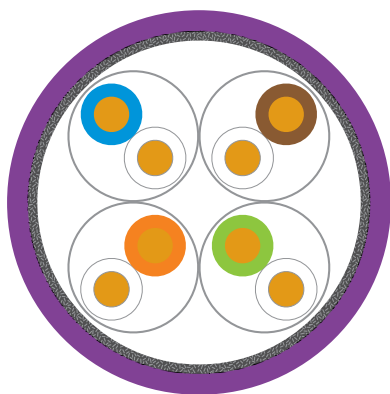
PRODUCT SPECIFICATIONS

AC6SF Cat 6A S/FTP EuroClass Eca Cables

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APPLICATION

Leviton Category 6A S/FTP cables exceed Category 6A performance standards. They are rated to 500 MHz and are suitable for use in all Class E_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 500 MHz.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

FEATURES AND BENEFITS

- 23 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together – providing excellent EMI immunity
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness, and heat dissipation
- Halogen Free Flame Retardant – Low Smoke
- HFFR-LS material meets the requirements of the Construction Products Regulation (CPR) EuroClass Eca
- CE marked for CPR

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN 50173-1 and EN 50288-10-1
- ANSI/TIA 568.2-D
- 10GBASE-T
- 802.11ac wireless
- IEEE 802.3 PoE Type 1, 2, 3, 4 (90 watts max)
- Exceeds IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

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TECHNICAL SPECIFICATIONS

Primary Electrical Parameters

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

Velocity of propagation	<538nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay skew	Max. 25nsec/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

MECHANICAL SPECIFICATIONS

Usage Characteristics

Category	Cat 6A
Type of cable	S/FTP
Temp. (Installation)	0 °C to +50 °C (32 °F to +122 °F)
Temp. (Operating)	-20 °C to +75 °C (-4 °F to +167 °F)

TECHNICAL DATA - PHYSICAL

Max. tensile load (Installation)	10 kg
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 mm
Crush Resistance to BS EN 50289-3-5	1000N

REACTION TO FIRE

Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / EuroClass	—	EN 13501-6	Eca
Single Cable Flame Rating	IEC 60332-1-2	—	—

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	IL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	2.0	1.9	75.3	100.0	72.3	97.0	67.5	103.9	64.8	87.0
4	3.8	3.5	66.3	100.0	63.3	97.0	56.0	103.9	53.0	87.0
10	5.9	5.5	60.3	100.0	57.3	97.0	48.0	102.8	45.0	87.0
20	8.4	7.8	55.8	100.0	52.8	97.0	42.0	101.8	39.0	81.8
100	19.1	18.0	45.3	100.0	42.3	97.0	28.0	89.4	25.0	67.8
200	27.6	25.7	40.8	100.0	37.8	96.1	22.0	78.2	19.0	61.8
250	31.1	28.7	39.3	100.0	36.3	95.7	20.0	74.6	17.0	59.8
500	45.3	41.1	34.8	100.0	31.8	92.5	14.0	65.2	11.0	53.8
550	—	43.1	—	98.2	—	88.9	—	62.5	—	53.0

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	RL (dB)		PSANEXT (dB)		PSAACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical
1	20.0	27.0	67.0	100.0	67.0	98.1
4	23.0	33.1	67.0	100.0	66.2	96.5
10	25.0	34.0	67.0	100.0	58.2	94.5
20	25.0	34.3	67.0	100.0	52.2	92.2
100	20.1	39.3	62.5	100.0	38.2	82.0
200	18.0	38.4	58.0	100.0	32.2	73.9
250	17.3	34.4	56.5	100.0	30.2	70.6
500	17.3	28.7	52.0	100.0	24.2	57.0
550	—	27.8	—	100.0	—	54.6

Note: 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

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PART NUMBER										
Description	Color	Length (m)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)	Packaging				Part No.	Alternative Part No. †
					Type	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet		
Cat 6A S/FTP Cable, EuroClass Eca	White	500	7.0	48.4	Reel	400 x 390	26.7	12	AC6S/FTP-HF1-Eca-500WH	128-SFTAZ-5WS
Cat 6A S/FTP Cable, EuroClass Eca	Gray	500	7.0	48.4	Reel	400 x 390	26.7	12	AC6S/FTP-HF1-Eca-500GY	127-SFTAZ-5SS
Cat 6A S/FTP Cable, EuroClass Eca	Violet	500	7.0	48.4	Reel	400 x 390	26.7	12	AC6S/FTP-HF1-Eca-500VT	129-SFTAZ-5VS
Cat 6A S/FTP Cable, EuroClass Eca	Violet	1000	7.0	48.4	Reel	600 x 405	54.8	4	AC6S/FTP-HF1-Eca-1000VT*	—
Cat 6A S/FTP Cable, EuroClass Eca	Violet	500	7.1 x 14.3	100.0	Reel	600 x 405	113.0	4	AC6S/FTP-HF1-Eca-D500VT*	—

* Only available in Europe and Middle East regions

† May be ordered using alternative part number in some regions

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

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USA
 Network Solutions Headquarters
 +1 (800) 722 2082
infoUSA@leviton.com
 Leviton Cable (formerly Berk-Tek)
 +1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
 +852 3620 2602
infoAPAC@leviton.com

Canada
 +1 (800) 461 2002
infoCanada@leviton.com

Europe
 +44 (0) 1592 772124
infoEurope@leviton.com

Latin America
 MX: +52 (55) 2128 6286
 LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
 +971 (4) 247 9800
infoMEA@leviton.com

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