

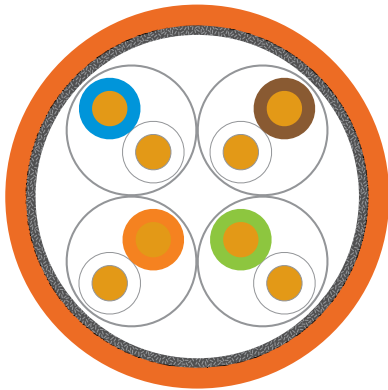
PRODUCT SPECIFICATIONS

AC6SF Cat 6A S/FTP Euroclass B2ca Cables

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APPLICATION

Leviton Cat 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 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

FEATURES & 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
- Designed to support all Class E_A protocols including 10GBASE-T
- Enhanced Halogen Free Flame Retardant – Low Smoke (HFFR-LS) material meets the requirements of the Construction Products Regulation (CPR) Euroclass B2ca
- CE marked for CPR
- Orange jacket to identify Euroclass level B2ca

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN 50173-1 and EN 50288-10-1
- ANSI/TIA 568.2
- 10GBASE-T
- 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)

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TECHNICAL SPECIFICATIONS

Primary Electrical Parameters

Conductor loop resistance	Max 19 Ω /100m	14 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

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	8m Ω /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

REACTION TO FIRE

Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / EuroClass	—	EN 13501-6	B2ca s1a d0 a1
Single Cable Flame Rating	IEC 60332-1-2	—	—
Bundled Cable Flame Rating	IEC 60332-3-24	—	—
Smoke Production	—	EN 50399 & EN61034-2	s1a
Flaming Droplets/Particles	—	EN 50399	d0
Acid Gas Emission/Acidity	—	EN 50267-2-3	a1

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS										
Freq.	IL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
MHz	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.	RL (dB)		PSANEXT (dB)		PSAACRF (dB)	
MHz	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

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	
Cat 6A S/FTP Cable, Euroclass B2ca	Orange	500	7.2	54.3	Reel	400 x 390	29.6	12	AC6S/FTP-B2ca-500OR
Cat 6A S/FTP Cable, Euroclass B2ca	Orange	1000	7.2	54.3	Reel	600 x 405	60.8	4	AC6S/FTP-B2ca-1000OR

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

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