

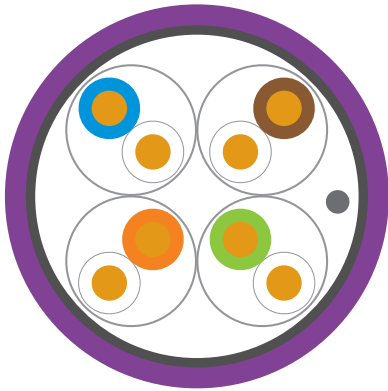
PRODUCT SPECIFICATIONS

AC6FF Cat 6A F/FTP Euroclass Eca Cables

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APPLICATION

Leviton Cat 6A F/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](https://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 aluminum polyester screen – for improved shielding efficiency and increased heat dissipation
- Designed to support all Class E_A protocols including 10GBASE-T
- Halogen Free Flame Retardant – Low Smoke (HFFR-LS)
- HFFR-LS material meets the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- Violet jacket to identify Euroclass level Eca. Also available in a range of non-standard colors
- CE marked for CPR
- Delivered in 100% recyclable packaging

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN 50173-1
- EN 50288-10-1
- ANSI/TIA 568.2
- 10GBASE-T
- 802.11ac wireless
- 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 1b	84dB
Transfer Impedance	Grade 2	11m Ω /m @ 10MHz

MECHANICAL SPECIFICATIONS

Usage Characteristics

Category	Cat 6A
Type of cable	F/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)	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

Material Identifier	HF1	HF3
Classification / EuroClass	Eca	Eca
Cable Flame Rating	IEC 60332-1-2	IEC 60332-3-24
Smoke Emission	IEC 61034-1 & 2	IEC 61034-1 & 2
Acid Gas Emission	IEC 60754-2	IEC 60754-2

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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	2.1	1.9	75.3	100.0	72.3	97.0	68.0	90.0	65.0	87.0
4	3.8	3.5	66.3	100.0	63.3	97.0	56.0	90.0	53.0	87.0
10	5.9	5.5	60.3	100.0	57.3	97.0	48.0	90.0	45.0	87.0
20	8.4	7.8	55.8	100.0	52.8	97.0	42.0	84.8	39.0	81.8
100	19.1	18.0	45.3	94.3	42.3	91.3	28.0	70.8	25.0	67.8
200	27.6	26.1	40.8	88.9	37.8	85.9	22.0	64.8	19.0	61.8
250	31.1	29.4	39.3	87.1	36.3	84.1	20.0	62.8	17.0	59.8
500	45.3	43.0	34.8	81.7	31.8	78.7	14.0	56.8	11.0	53.8
550	—	45.4	—	81.0	—	78.0	—	56.0	—	53.0

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

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	30.0	67.0	100.0	66.2	96.5
10	25.0	30.0	67.0	100.0	58.2	94.5
20	25.0	30.0	67.0	100.0	52.2	92.2
100	20.1	25.1	62.5	100.0	38.2	82.0
200	18.0	23.0	58.0	100.0	32.2	73.9
250	17.3	22.3	56.5	100.0	30.2	70.6
500	17.3	20.2	52.0	100.0	24.2	57.0
550	—	19.9	—	100.0	—	54.6

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STANDARD PACKAGING SPECIFICATIONS - REELS							
Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
AC6F/FTP-HF1-Eca-500WH	500	White †	7.1	50.2	400 x 390	27.4	12
AC6F/FTP-HF1-Eca-500GY	500	Gray †	7.1	50.2	400 x 390	27.4	12
AC6F/FTP-HF1-Eca-500VT	500	Violet †	7.1	50.2	400 x 390	27.4	12
AC6F/FTP-HF1-Eca-1000VT	1000	Violet †	7.1	50.2	600 x 405	56.2	4
AC6F/FTP-HF1-Eca-D500VT††	500	Violet †	7.1 x 14.3	100.5	600 x 405	56.2	4
AC6F/FTP-HF3-Eca-500BU	500	Blue †	7.5	57.9	465 x 390	31.9	6
AC6F/FTP-HF3-Eca-1000BU	1000	Blue †	7.5	57.9	600 x 405	64.4	4

† Also available in a range of non standard color
†† 'D' denotes Duplex Cable

STANDARD PACKAGING SPECIFICATIONS - BOXES							
Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Box Size H x W x L (mm)	Gross Weight (kg/Item)	Items Per Pallet
AC6F/FTP-HF1-Eca-B305VT	305	Violet †	7.1	50.2	475 x 295 x 475	16.0	12
AC6F/FTP-HF1-Eca-B305BU	305	Blue †	7.1	50.2	475 x 295 x 475	16.0	12
AC6F/FTP-HF1-Eca-B305WH	305	White †	7.1	50.2	475 x 295 x 475	16.0	12

† Also available in a range of non standard color

For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)