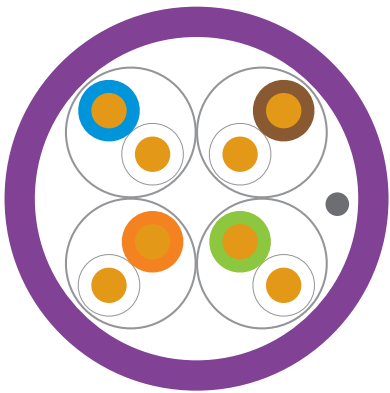


AC6UF Cat 6A U/FTP Euroclass Eca Cables

APPLICATION

Leviton Category 6A U/FTP cables exceed Category 6A performance standards. They are specified to 500 MHz and are suitable for use in all Class E_A structured wiring cable systems. Category 6A U/FTP cables support 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet (PoE), voice, 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
- Gas injection foamed polyolefin core insulation – offering superior signal speed
- 4 twisted pairs individually screened and cabled together providing EMI immunity
- HFFR-LS (Halogen Free Flame Retardant – Low Smoke) jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E_A
- IEC 61156-5
- EN50173-1
- EN 50288-10-1
- ANSI/TIA 568.2
- 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)

PRODUCT SPECIFICATIONS

AC6UF Cat 6A U/FTP Euroclass Eca Cables

CHARACTERISTICS

Installation Characteristics

Min. Bend Radius (Installation)	8 x Outer Diameter
Min. Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.80
Temp. (Storage)	0 °C to +50 °C (+32 °F to +122 °F)
Temp. (Installation)	0 °C to +50 °C (+32 °F to +122 °F)
Temp. (Operating)	-20 °C to +75 °C (-4 °F to +167 °F)
Max. Tensile Load (Installation)	10 kg per simplex cable
Segregation Class	Class C

REACTION TO FIRE

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

TECHNICAL SPECIFICATIONS

Primary Electrical Properties

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
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

TECHNICAL SPECIFICATIONS

Secondary Electrical Properties

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Velocity of Propagation	<534nsec/100m @ 100 MHz	413nsec/100m @ 100 MHz
Delay Skew	Max 45nsec/100m @100 MHz	4nsec/100m @ 100 MHz
Mean Character Impedance	100Ω +/- 5Ω @ 100 MHz	100Ω ± 3Ω @ 100 MHz
Coupling Attenuation	Type 1b	75db
Transfer Impedance	Grade 2	28mΩ/m ± 3Ω @ 10 MHz

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (dB)		IL (dB)	
MHz	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	20.0	27.0	75.3	100.0	72.3	97.0	2.1	1.9
4	23.0	30.0	66.3	100.0	63.3	97.0	3.8	3.5
10	25.0	30.0	60.3	100.0	57.3	97.0	5.9	5.5
20	25.0	30.0	55.8	100.0	52.8	97.0	8.4	7.8
100	20.1	25.1	45.3	94.3	42.3	91.3	19.1	18.0
200	18.0	23.0	40.8	88.9	37.8	85.9	27.6	26.1
250	17.3	22.3	39.3	87.1	36.3	84.1	31.1	29.4
500	17.3	20.2	34.8	81.7	31.8	78.7	45.3	43.0
550	—	19.9	—	81.0	—	78.0	—	45.4

PRODUCT SPECIFICATIONS

AC6UF Cat 6A U/FTP Euroclass Eca Cables

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	ACRF (dB)		PSACRF (dB)		PSANEXT (dB)		PSAACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	68.0	90.0	65.0	87.0	67.0	100.0	67.0	98.1
4	56.0	90.0	53.0	87.0	67.0	100.0	66.2	96.5
10	48.0	90.0	45.0	87.0	67.0	100.0	58.2	94.5
20	42.0	84.8	39.0	81.8	67.0	100.0	52.2	92.2
100	28.0	70.8	25.0	67.8	62.5	100.0	38.2	82.0
200	22.0	64.8	19.0	61.8	58.0	100.0	32.2	73.9
250	20.0	62.8	17.0	59.8	56.5	100.0	30.2	70.6
500	14.0	56.8	11.0	53.8	52.0	100.0	24.2	57.0
550	N/A	56.0	N/A	53.0	N/A	100.0	N/A	54.6

• 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

STANDARD PACKAGING SPECIFICATIONS - REELS

Description	Color	Length (m)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet	Part No.
Cat 6A U/FTP Cable, Euroclass Eca	White †	500	6.8	45.0	400 x 390	25.0	12	AC6U/FTP-HF1-Eca-500WH
Cat 6A U/FTP Cable, Euroclass Eca	Violet †	500	6.8	45.0	400 x 390	25.0	12	AC6U/FTP-HF1-Eca-500VT
Cat 6A U/FTP Cable, Euroclass Eca	Violet †	1000	6.8	45.0	600 x 405	51.5	4	AC6U/FTP-HF1-Eca-1000VT
Cat 6A U/FTP Cable, Euroclass Eca	Violet †	500	6.8 x 13.7	99.0	600 x 405	51.5	4	AC6U/FTP-HF1-Eca-D500VT ††

† Also available in a range of non-standard colors †† Duplex cable

STANDARD PACKAGING SPECIFICATIONS - BOXES

Description	Color	Length (m)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet	Part No.
Cat 6A U/FTP Cable, Euroclass Eca	Violet †	305	6.8	45.0	475 x 295 x 475	14.7	12	AC6U/FTP-HF1-Eca-Rlx-305VT

† Also available in a range of non-standard colors

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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