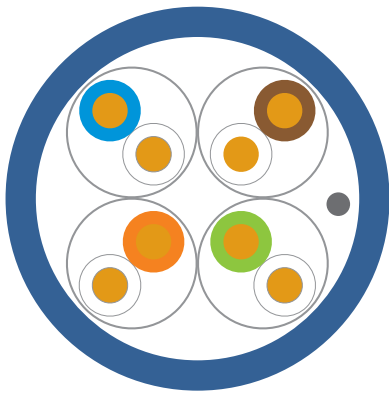


## AC6UF Cat 6A U/FTP EuroClass Dca Cables

### 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<sub>A</sub> 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
- 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 Dca and UL 1666 Riser (CMR)
- Designed and manufactured in a carbon neutral facility in the UK
- CE marked for CPR
- Delivered in 100% recyclable packaging

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E<sub>A</sub> and IEC 61156-5
- EN50173-1 and EN 50288-10-1
- ANSI/TIA 568.2-D
- UL 1666 Riser
- 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 Dca Cables

AC6UF Cat 6A U/FTP EuroClass Dca 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. (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)	10kg per simplex cable
Segregation Class	Class C

### REACTION TO FIRE

Single Cables Characteristic	IEC Standard	EN Standard	Rating
Classification / EuroClass	—	EN 13501-6	Dca s2 d2 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	—
Bundled Cable Flame Rating	—	—	UL 1666 Riser
Dublex Cable Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / EuroClass	—	EN 13501-6	Dca s2 d2 a1
Single Cable Flame Rating	IEC 60332-1-2	—	—

### TECHNICAL SPECIFICATIONS

#### Primary Electrical Properties

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Conductor Loop Resistance	Max 19 Ω/100 m	14Ω/100 m
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	510nsec/100m @ 100 MHz
Delay Skew	Max 45nsec/100m @100 MHz	20nsec/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. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		IL (dB)	
	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 Dca Cables**

**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	68.0	90.0	65.0	87.0	67.0	100.0	67.0	100.0
4	56.0	90.0	53.0	87.0	67.0	100.0	66.2	100.0
10	48.0	90.0	45.0	87.0	67.0	100.0	58.2	100.0
20	42.0	84.8	39.0	81.8	67.0	100.0	52.2	100.0
100	28.0	70.8	25.0	67.8	62.5	100.0	38.2	100.0
200	22.0	64.8	19.0	61.8	58.0	100.0	32.2	100.0
250	20.0	62.8	17.0	59.8	56.5	100.0	30.2	100.0
500	14.0	56.8	11.0	53.8	52.0	100.0	24.2	100.0
550	N/A	56.0	N/A	53.0	N/A	100.0	N/A	100.0

• 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 Dca	Blue †	500	6.8	46.6	400 x 390	25.1	12	AC6U/FTP-Dca-500BU
Cat 6A U/FTP Cable, EuroClass Dca	Blue †	1000	6.8	46.6	600 x 325	51.2	6	AC6U/FTP-Dca-1000BU
Cat 6A U/FTP Cable, EuroClass Dca	Blue †	500	6.8 x 13.8	46.6	600 x 325	51.7	6	AC6U/FTP-Dca-D500BU † †

† 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 Dca	Blue †	305	6.8	45.2	475 x 295 x 475	14.8	12	AC6U/FTP-Dca-Rlx-305BU

† Also available in a range of non-standard colors

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