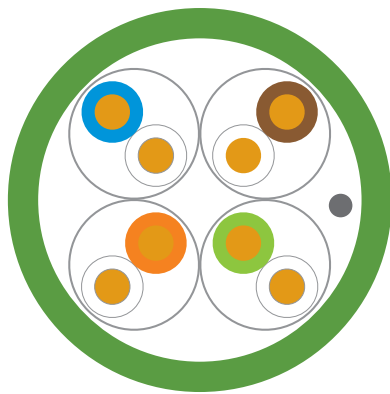


## Category 6A U/FTP AC6Z Euroclass Cca Cables

### APPLICATION

Leviton AC6Z cables exceed the Category 6A performance standards in a channel of up to 70 m in length. They are specified to 500 MHz and are suitable for use in all Class E<sub>A</sub> structured cabling systems. AC6Z cables have been designed specifically for the challenges in the data center environment by being smaller and lighter than equivalent conventional cables. AC6Z 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

- 26 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Halogen-Free Flame Retardant Low-Smoke (HFFR-LS) jacket material to suit a variety of installation environments, including CPR fire performance ratings Eca, Dca, Cca and B2ca and color coded for identification
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E<sub>A</sub>
- IEC 61156-6
- EN50173-1
- EN 50288-10-2
- Supports 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)

**PRODUCT SPECIFICATIONS**  
**Category 6A U/FTP AC6Z Euroclass Cca Cables**

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS**

Freq. MHz	RL (dB)		NEXT (dB)		PSNEXT (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	2.4
4	23.0	30.0	66.3	100.0	63.3	97.0	3.8	4.4
10	25.0	30.0	60.3	100.0	57.3	97.0	5.9	6.8
20	25.0	30.0	55.8	100.0	52.8	97.0	8.4	9.7
100	20.1	25.1	45.3	94.3	42.3	91.3	19.1	22.0
200	18.0	23.0	40.8	88.9	37.8	85.9	27.6	31.7
250	17.3	22.3	39.3	87.1	36.3	84.1	31.1	35.7
500	17.3	20.2	34.8	81.7	31.8	78.7	45.3	52.0
550	—	19.9	—	81.0	—	78.0	—	54.8

**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	—	56.0	—	53.0	—	100.0	—	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
- N/A – Not Applicable

**PRODUCT SPECIFICATIONS**  
**Category 6A U/FTP AC6Z Euroclass Cca Cables**



Category 6A U/FTP AC6Z Euroclass Cca Cables

CHARACTERISTICS	
<b>Installation Characteristics</b>	
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
Temp. (Operating)	-20 °C to +75 °C
Segregation Class	Class C

TECHNICAL SPECIFICATIONS		
Primary Electrical Properties (20 °C)		
CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Conductor Loop Resistance	Max 28.5 Ω/100 m	23Ω/100m (<17Ω/70m)
Conductor Resistance Unbalance	Max 2%	0.2%
Insulation Resistance	>5GΩ.km	>50GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass

TECHNICAL SPECIFICATIONS		
Secondary Electrical Properties (20 °C)		
CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Velocity of Propagation	<537.6nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100 MHz	3nsec/100m @ 100MHz
Characteristic Impedance (Fitted)	100Ω +/- 5Ω @ 100 MHz	100Ω ± 3Ω @ 100 MHz
Coupling Attenuation	Type 1b	77dB
Transfer Impedance	Grade 2	15mΩ/m @ 10MHz

REACTION TO FIRE			
CHARACTERISTIC	IEC STANDARD	EN STANDARD	CPR RATING
Classification/EuroClass	—	EN 13501-6	Cca s1a d1 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Smoke Emission	IEC 61034	EN 61034	Pass
Acid Gas Emission	IEC 60754	EN 60754	Pass

STANDARD PACKAGING SPECIFICATIONS – REELS							
Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size	Gross Weight (kg/Item)	Items Per Pallet
AC6-DCZ-Cca-500GN	500	Green†	5.7	34.7	400 x 400 x 312	19.3	18
AC6-DCZ-Cca-1000GN	1000	Green†	5.7	34.7	465 x 465 x 375	37.5	6

STANDARD PACKAGING SPECIFICATIONS – BOXES							
Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size	Gross Weight (kg/Item)	Items Per Pallet
AC6-DCZ-Cca-Rlx-305GN§	305	Green†	5.7	34.7	405 x 265 x 405	10.6	27 or 18††

§ = 305m box

† Also available in a range of non-standard colors

†† 3 Layer pallet is 27 boxes, 2 layers is 18

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