

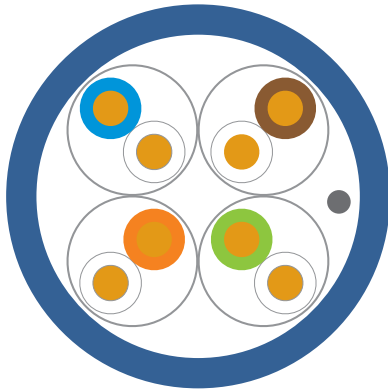
PRODUCT SPECIFICATIONS

Category 6A U/FTP AC6Z Euroclass Dca Cables

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APPLICATION

Leviton AC6Z cables exceed the Category 6A performance standards in a channel of up to 70m in length. They are specified to 500MHz and are suitable for use in all class E_A structured wiring cable 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 500MHz.



FEATURES & BENEFITS

- 26 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 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_A
- IEC 61156-6
- EN50173-1
- EN 50288-10-2
- IEEE 802.3 PoE Type 1, 2, 3, 4 (90 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://www.leviton.com/ns/warranty)

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TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

Segregation Class	Class C
Max Tensile Load (Installation)	10kg
Min Bend Radius (Installation)	8 x Outer Diameter
Min Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.80

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

MECHANICAL SPECIFICATIONS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Number of pairs	4

Usage Characteristics

Category	Cat 6A
Type of cable	U/FTP
Temp. (Installation)	0 °C to +50 °C
Temp. (Operating)	-20 °C to +75 °C

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	Dca s2 d1 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Smoke Emission	—	EN 50399	s2
Acid Gas Emission	IEC 60754	EN 60754	Pass

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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	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)		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	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

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
AC6-DCZ-Dca-500BU	500	Blue†	5.6	32.6	400 x 315	18.3	18
AC6-DCZ-Dca-1000BU	1000	Blue†	5.6	32.6	465 x 390	35.6	6

STANDARD PACKAGING SPECIFICATIONS – BOXES

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Box Size L x W x H (mm)	Gross Weight (kg/Item)	Items Per Pallet
AC6-DCZ-Dca-Rlx-305BU	305	Blue†	5.6	32.6	405 x 265 x 405	10.0	27 or 18††

† 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

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