

Category 6A U/FTP Zone EuroClass Eca Cables

Datasheet: GD102413v8



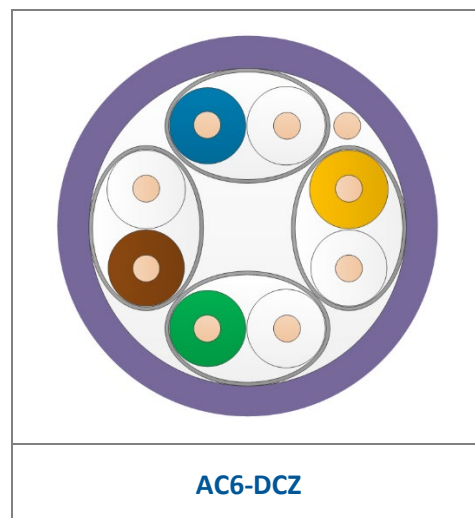
APPLICATION

Leviton Zone 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. Zone cables have been designed specifically for the challenges in the data center environment by being smaller and lighter than equivalent conventional cables. Zone cables support 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet, voice and broadband video transmissions at frequencies up to 500MHz.

FEATURES AND BENEFITS

- 26 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Available in a range of HFFR-LS* jacket materials to suit a variety of installation environments, including CPR fire performance ratings Eca, Dca, Cca and B2ca and color coded for identification
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton copper connectivity. System warranties are available for qualified projects installed by certified contractors
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

* Halogen Free Flame Retardant – Low Smoke



STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
 - ISO/IEC 11801 Class E_A, IEC 61156-6
 - EN50173-1 and EN 50288-10-2
- Supports 10GBASE-T
- Meets design requirements for 802.11ac wireless
- Recommended for PoE standards up to 60W: IEEE 802.3af, 802.3at, 802.3bt (Type 3), and Cisco UPoE
 - For 60W Applications – Up to 79 cables in a bundle
- Recommended for PoE standards: IEEE 802.3af, 802.3at, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts
 - For 100W Applications – Up to 16 cables in a bundle

MATERIAL PERFORMANCE

Material Identifier	HF1	HF3
Material Description	Standard HFFR-LS	Enhanced HFFR-LS
Flammability Rating	IEC/EN 60332-1-2	IEC/EN 60332-3-24
EuroClass Level EN13501-6	Eca	Eca
Color	Violet†	Blue†

† Also available in a range of non-standard colors

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PRIMARY ELECTRICAL PARAMETERS

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

SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Velocity of Propagation	<537.6nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/100m @ 100MHz	3nsec/100m @ 100MHz
Mean Characteristic Impedance	100 Ω +/- 5 Ω @ 100MHz	100 Ω \pm 3 Ω @ 100MHz
Coupling Attenuation	Type 1b	77dB
Transfer Impedance	Grade 2	15m Ω /m @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	20	100	200	250	500	550
Insertion Loss (dB/100m) max	Standard	3.1	5.7	8.9	12.6	28.7	41.4	46.6	67.9	N/A
	Typical	2.4	4.4	6.8	9.7	22.0	31.7	35.7	52.0	54.8
NEXT (dB) min	Standard	N/A	66.3	60.3	55.8	45.3	40.8	39.3	34.8	N/A
	Typical	100.0	100.0	100.0	100.0	94.3	88.9	87.1	81.7	81.0
PSNEXT (dB) min	Standard	N/A	63.3	57.3	52.8	42.3	37.8	36.3	31.8	N/A
	Typical	97.0	97.0	97.0	97.0	91.3	85.9	84.1	78.7	78.0
ACR-F (dB) min	Standard	N/A	56.0	48.0	42.0	28.0	22.0	20.0	14.0	N/A
	Typical	90.0	90.0	90.0	84.8	70.8	64.8	62.8	56.8	56.0
PSACR-F (dB) min	Standard	N/A	53.0	45.0	39.0	25.0	19.0	17.0	11.0	N/A
	Typical	87.0	87.0	87.0	81.8	67.8	61.8	59.8	53.8	53.0
Return Loss (dB) min	Standard	20.0	23.0	25.0	25.0	20.1	18.0	17.3	17.3	N/A
	Typical	27.0	30.0	30.0	30.0	25.1	23.0	22.3	20.2	19.9
PSANEXT (dB) min	Standard	67.0	67.0	67.0	67.0	62.5	58.0	56.5	52.0	N/A
	Typical	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PSAACR-F (dB) min	Standard	67.0	66.2	58.2	52.2	38.2	32.2	30.2	24.2	N/A
	Typical	98.1	96.5	94.5	92.2	82.0	73.9	70.6	57.0	54.6

INSTALLATION

Temperature (Installation)	0°C to +50°C	Min Bend Radius (Installation)	8 x Outer Diameter
Temperature (Operation)	-20°C to +75°C	Min Bend Radius (Operation)	4 x Outer Diameter
Max Tensile Load (Installation)	10kg	Field Test NVP Value	0.80
Segregation Class	Class C		

NB: Network designers should use an attenuation factor of 1.3 when designing with these cables

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PRINT LEGEND

Example print legend:

[Length Mark]m BRAND-REX a LEVITON company AC6-DCZ-Eca Cat 6A U/FTP Zone IEC 60332-1-2 EuroClass Eca
NVP 0.80 MADE IN UK [ID number] [Week/Year]

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-Eca-500VT	500	Violet†	5.6	32.5	400 x 315	18.3	18
AC6-DCZ-Eca-1000VT	1000	Violet†	5.6	32.5	465 x 375	35.5	6
AC6-DCZ-HF3-Eca-500BU	500	Blue†	5.7	34.7	400 x 315	19.3	18
AC6-DCZ-HF3-Eca-1000BU	1000	Blue†	5.7	34.7	465 x 375	37.5	6

STANDARD PACKAGING SPECIFICATIONS - BOXES

Part Number	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-Eca-RIx-305VT§	Violet†	5.6	32.5	405 x 265 x 405	10.1	27 or 18††

§ = 305m box

† Also available in a range of non-standard colors

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

*“Leviton is **dedicated** to **designing, developing and manufacturing**
sustainable **high-performance** structured cabling and specialty **cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.