Category 6A U/FTP Zone EuroClass Eca Cables

Datasheet: GD102413v13

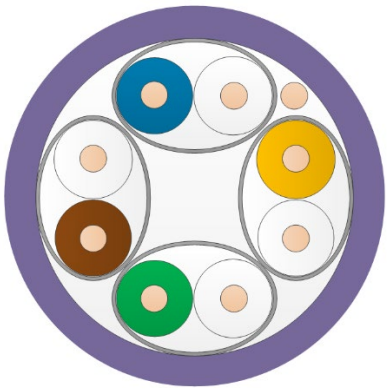
APPLICATION

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 EA 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*



AC6-DCZ
UF26Z-5VS

STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
  - ISO/IEC 11801 Class EA, IEC 61156-6
  - EN50173-1 and EN 50288-10-2
- Supports 10GBASE-T and meets design requirements for 802.11ac wireless
- Recommended for PoE standards:
  - IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af and IEEE 802.3bt PoE Type 2 (30 Watts) formerly 802.3at
  - IEEE 802.3bt PoE Type 3 (60 Watts) and IEEE 802.3bt PoE Type 4 (90 Watts)
  - Cisco UPoE (60 Watts) and Cisco UPoE+ (90 Watts)
  - Power over HDBaseT™ PoH (95 Watts)

REACTION TO FIRE

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

† 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	23Ω/100m (<17Ω/70m)
Conductor Resistance Unbalance	Max 2%	0.2%
Insulation Resistance	>5GΩ.km	>50GΩ.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	100Ω +/- 5Ω @ 100MHz	100Ω ± 3Ω @ 100MHz
Coupling Attenuation	Type 1b	77dB
Transfer Impedance	Grade 2	15mΩ/m @ 10MHz

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	20	100	200	250	500	550
Insertion Loss (dB/100m)	Standard	2.1	3.8	5.9	8.4	19.1	27.6	31.1	45.3	N/A
	Typical	***2.4***	***4.4***	***6.8***	***9.7***	***22.0***	***31.7***	***35.7***	***52.0***	***54.8***
NEXT (dB)	Standard	75.3	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)	Standard	72.3	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)	Standard	68.0	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)	Standard	65.0	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)	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)	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)	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***

- *The standard values shown are the most demanding taken from the relevant IEC, TIA and EN specifications. These standard values are the maximum permittable for Insertion loss and the minimum permittable for other parameters*
- *N/A – Not Applicable*

INSTALLATION

Temperature *(Installation)*	0°C to +50°C
Temperature *(Operation)*	-20°C to +75°C
Max Tensile Load *(Installation)*	10kg
Segregation Class	Class C

Min Bend Radius *(Installation)*	8 x Outer Diameter
Min Bend Radius *(Operation)*	4 x Outer Diameter
Field Test NVP Value	0.80

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

STANDARD PACKAGING SPECIFICATIONS - REELS

Part Number	Alternative** 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	UF26Z-5VS*	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

** Available in Latin America*
*** May be ordered using alternative part number in some regions*

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-Rlx-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

COUNTRY OF ORIGIN

COO: United Kingdom

*"Leviton is **dedicated** to **designing, developing** and **manufacturing** sustainable **high-performance** structured cabling and speciality **cabling solutions.**"*