

PRODUCT SPECIFICATIONS

ADVENTUM 12-96F Euroclass B2ca Cable

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APPLICATION

Leviton ADVENTUM B2ca cables offer up to 96 Fibers in a compact, dry water-blocked and gel-free construction. ADVENTUM B2ca cables are compliant with the European Construction Products Regulation, achieving Euroclass level B2ca according to EN 13501-6. The ADVENTUM B2ca cables are suited to any high-density campus or in-building backbone installation where people safety, in the case of fire, is a priority. ADVENTUM cables are suitable for internal/external installations in building and campus applications, vertical riser installations, and data centers.



For fiber counts from 12-96

COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- 12-96 Fiber counts – color-coded according to TIA-598-D
- Bend Insensitive Fiber as Standard – Single-Mode, OM3, OM4, and OM5 versions to suit a variety of applications
- Resin-bonded glass central strength member for a flexible design with a high strength-to-weight ratio
- Enhanced Halogen Free Flame Retardant Low Smoke (HFFR-LS) sheath (black, UV stable as standard)
- Euroclass B2ca meets the requirements of Euroclass Cca, Dca, and Eca, and can be used in applications where these are specified
- Multiple dry water-blocked tube construction with red and green marker reference
- CE marked for CPR
- Gel-free to reduce termination time and remove need for solvents
- Interstitially dry water blocked design to prohibit the ingress of water throughout the glass cable length
- Glass yarns – high-tensile yarns to offer strength and moderate rodent protection

STANDARDS & REGULATIONS

- ISO/IEC 11801
- IEC 60794
- BS EN 50173-1
- IEC 60794-1-21
- IEC 60794-1-22
- IEC 60794-1-22-F5C

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MECHANICAL SPECIFICATIONS

Construction

Type of cable	Loose Tube
Jacket material	HFFR-LS

Usage Characteristics

Temp. (Storage):	-40 °C to +75 °C (-40 °F to +167 °F)
Temp. (Installation):	-5 °C to +50 °C (+23 °F to +122 °F)
Temp. (Operating):	-40 °C to +75 °C (-40 °F to +167 °F)

REACTION TO FIRE

Characteristics	IEC Standard	EN Standard	CPR Rating
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass Pass
Bundled Cable Flame Rating	IEC 60332-3-24	EN 60332-3-24	B2ca s1a d1 a1
Cable Flame Rating	—	EN 50399 EN	B2ca s1a d1 a1
Smoke Emission	—	50399 EN	
Flaming Droplets/Particles	—	50399 EN	
Acid Gas Emission	IEC 60754-2	60754-2 EN	
Classification / Euroclass	—	13501-6 Pass	
UL Performance	UL 1666		—

TECHNICAL SPECIFICATIONS

Fiber Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend Radius	Min. Dynamic Bend Radius	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns ± 180o)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
12-48	240	790	7.5x Cable Diameter	10x Cable Diameter	1000	10	10	2.0	8.9	80
72	250	840							9.4	85
96	330	1100							10.6	110

OPTICAL PERFORMANCE

Fiber Identifier*	108	208	OM3	OM4	OM5
IEC 60793 Reference ITU-T	2-50-B6_a	2-50-B6_a	2-10-A1a.2	2-10-A1a.3	2-10-A1a-OM5
Recommendation ISO/IEC	G.657.A1	G.657.A2	G.651.1	G.651.1	G.651.1
11801 Category Effective Modal	OS2	OS2	OM3	OM4	OM5
Bandwidth @850 nm (MHz.km)	—	—	≥2000	≥4700	≥4700
Overfilled Launch Bandwidth @850 nm (MHz.km)	—	—	≥1500	≥3500	≥3500
Attenuation @ 850 nm (dB/km)	—	—	≤2.80	≤2.80	≤2.80
Attenuation @ 1300 nm (dB/km)	—	—	≤0.80	≤0.80	≤0.80
Attenuation @ 1310 nm (dB/km)	≤0.38	≤0.38	—	—	—
Attenuation @ 1550 nm (dB/km)	≤0.25	≤0.25	—	—	—

*Other fiber types are available on request.

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STANDARD PACKAGING SPECIFICATIONS - REELS							
Part Number Prefix	Fiber Count	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
		2 km	4 km	2 km	4 km	2 km	4 km
GFxxxADTyWRRLU-B2ca	12-48	1200 x 690	1200 x 690	220	375	1	1
GFxxxADTyWRRLU-B2ca	72	1200 x 690	1200 x 690	239	412	1	1
GFxxxADTyWRRLU-B2ca	96	1200 x 690	1200 x 690	285	545	1	1

Note: xxx = fiber type, yy = fiber count

PART NUMBER CONFIGURATOR

Sample Part Number: **GE OM4 ADT 96 W RR LU - B2ca**

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	WATER BLOCKING LAYER		ARMORING		OUTER SHEATH		EUROCLASS
GF	108	SM G657A1	ADT	ADVENTUM Multi Dry Tube	12	W	Water Swellable Tape	RR	Layer of Glass Yarns	LU	HFFR-LS	B2ca
	208	SM G657A2			24							
	OM3MM	OM3			48							
	OM4MM	OM4			72							
	OM5MM	OM5			96							