

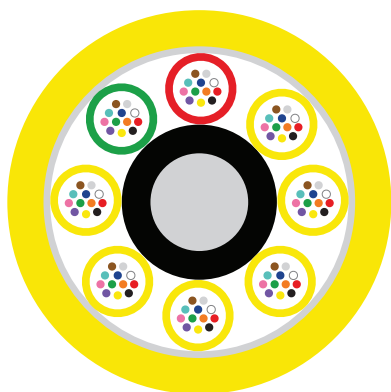
## PRODUCT SPECIFICATIONS

### ADVENTUM RailSafe Multi-Loose-Tube Cable

# ADVENTUM™ RailSafe Multi-Loose-Tube Cable

## APPLICATION

Leviton ADVENTUM™ RailSafe cables offer up to 144 fibers in a multi-loose-tube, dry water-blocked and gel-free construction. ADVENTUM RailSafe cables are compliant with the European Construction Products Regulation, achieving EuroClass level Cca according to EN 13501-6. ADVENTUM RailSafe cables are suited to indoor/outdoor installations in high-density underground rail networks, stations, tunnels, trackside and where people safety in the case of fire is a high priority.



## BENEFITS

- Resin bonded glass central strength member for a flexible design with a high strength-to-weight ratio
- Multiple dry water-blocked tube construction with red and green marker reference—gel-free to improve fire performance, reduces termination times, and removes the need for solvents
- Interstitially dry water-blocked design to prohibit the ingress of water throughout the cable length

## FEATURES

- 12-144 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
- EuroClass Cca s1a d0 a1 meets the EuroClass requirements of LUL S-1085
- CE marked for CPR

## STANDARDS & REGULATIONS

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

## FIRE RATING

See page two

## COUNTRY OF ORIGIN

UK

## WARRANTY INFORMATION

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

**PRODUCT SPECIFICATIONS**  
**ADVENTUM™ RailSafe Multi-Loose-Tube Cable**

**TEMPERATURE PERFORMANCE**

**Installation Characteristics**

Temperature (Installation):	-5 °C to +50 °C
Temperature (Operating):	-40 °C to +75 °C
Temperature (Storage):	-40 °C to +75 °C

**REACTION TO FIRE**

**Characteristics**

	IEC/EN Standards	Rating
Single Cable Flame Rating	IEC 60332-1-2	Pass
Bundled Cable Flame Rating	IEC 60332-3-24	Pass
Bundled Cable Flame Rating	EN 50399 20.5kW source	Cca
Smoke Emission	EN 50399	s1a
Flaming Droplets/Particles	EN 50399	d0
Acid Gas Emission/Acidity	EN 50267-2-3	a1
Classification/EuroClass	EN 13501-6	Cca s1a d0 a1

**TECHNICAL SPECIFICATIONS**

**Mechanical Performance**

Fiber Count	Max. Long Term Load (N)	Max. Short Term Load (N)	Min. Static Bend	Min. Dynamic Bend	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns ± 180°)
12-48	240	790	15x Cable Diameter	20x Cable Diameter	1000	10	10
72	250	840					
96	330	1100					
144	510	1700					

**TECHNICAL SPECIFICATIONS**

**Physical Performance**

Fiber Count	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nominal Cable Weight (kg/km)
12-48	2.0	8.9	80
72		9.4	85
96		10.6	110
144		13.2	173

**PRODUCT SPECIFICATIONS**  
**ADVENTUM™ RailSafe Multi-Loose-Tube Cable**



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

Other fiber types are available on request

PACKAGING SPECIFICATIONS						
Fiber Count	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
12-48	1200 x 690	1200 x 690	220	375	1	1
72	1200 x 690	1200 x 690	239	412	1	1
96	1200 x 690	1400 x 800	285	545	1	1
144	1200 x 690	1700 x 915	408	846	1	1

**PART NUMBER CONFIGURATOR**

**GFaRSAbWRRLU-Cca c**

a = Fiber Identifier\* e.g. "108" for G.657.A1 fiber

b = 2 or 3 digit fiber count e.g "02" for 2 fiber cable

c = Color identifier, e.g. "YW" for Yellow

Fiber Identifier e.g. "108" for G.657.A1 fiber. Example part number: GF108RSA144WRRLU-Cca YW

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

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