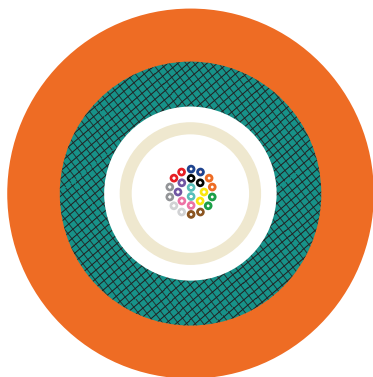


ADVENTUM™ RailSafe Indoor/Outdoor CDT Steel Tape Armored Cables

APPLICATION

Leviton ADVENTUM RailSafe Steel Tape Armored Central Dry Tube (CDT) cables offer up to 24 fibers in a compact, dry, water-blocked tube and gel-free construction. The cable is compliant with the European Construction Products Regulation, achieving Euroclass level Cca s1a d0 a1 according to EN 13501-6, which also meets the requirements of LUL S1085. ADVENTUM RailSafe cables are suited to indoor/outdoor installations in low-density underground rail networks, stations, tunnels, trackside, and where people safety in the case of fire is a priority. The steel tape armour range has been designed to offer enhanced mechanical properties, suitable for direct-burial applications and other environments where the cable may be subject to mechanical crush and impact.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- 2-24 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
- Dry water blocked design of the central tube to prohibit the ingress of water throughout the tube length
- Central dry tube cable construction – gel-free to improve fire performance, reduce termination time, and remove need for solvents
- Glass yarns – high tensile yarns to offer strength
- Corrugated steel-tape armor for superior mechanical crush and impact resistance and optimal rodent protection
- Enhanced Halogen Free Flame-Retardant Low Smoke (HFFR-LS) sheath (UV stable as standard)
- Euroclass Cca s1a d0 a1 meets the Euroclass and toxicity requirements of LUL S1085
- Indoor/Outdoor design eliminates the need to transition from an Outdoor cable to an Indoor cable at the entrance facility
- CE marked for CPR

STANDARDS & REGULATIONS

- ISO/IEC 11801
- IEC 60794
- BS EN 50173-1
- IEC 60794-1-21
- IEC 60794-1-22
- LUL S1085

PRODUCT SPECIFICATIONS
GFxxxRSCxxSTALU-Cca

TECHNICAL SPECIFICATIONS

Construction

Type of Cable	Central Dry Tube
Jacket Material	HFFR-LS

Usage Characteristics

Temp. (Storage):	-40 °C to +75 °C (-40 °F to +167 °F)
Temp. (Installation):	-10 °C to +60 °C (+14 °F to +140 °F)
Temp. (Operating):	-40 °C to +75 °C (-40 °F to +167 °F)

REACTION TO FIRE

Characteristic	IEC Standard	EN Standard	Rating
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Bundled Cable Flame Rating	IEC 60332-3-24	EN 60332-3-24	Pass
Cable Flame Rating	—	EN 50399	Cca
Smoke Emission	—	EN 50399	s1a
Flaming Droplets/Particles	—	EN 50399	d0
Acid Gas Emission	IEC 60754-2	EN 60754-2	a1
Classification / Euroclass	—	EN 13501-6	Cca s1a d0 a1

TECHNICAL SPECIFICATIONS

Fiber Count	Max. Long Term Tensile Load (N)	Max. Short Term Tensile Load (N)	Min. Static Bend Radius (mm)	Min. Dynamic Bend Radius (mm)	Max. Crush (N)	Max. Impact (Nm)	Max. Torsion (Turns ± 180°)	Nom. Tube Diameter (mm)	Nom. Cable Diameter (mm)	Nom. Cable Weight (kg/km)
2-12	1000	3000	10x Cable Diameter	15x Cable Diameter	2200	20	5	3.0	8.8	98
16-24								3.5	9.9	111

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	—	—	—
Cable Colors Available	Yellow	Yellow	Orange	Orange	Orange

*Other fiber types are available on request.

PACKAGING

Fiber Count	Reel Size (flange x width mm)		Gross Weight (kg/reel)		Reels per Pallet	
	2km	4km	2km	4km	2km	4km
2-24	1200 x 1200 x 690	1400 x 1400 x 800	260	495	1	1
			286	548		

PRODUCT SPECIFICATIONS
GFxxxRSCxxSTALU-Cca



PART NUMBER CONFIGURATOR

Sample Part Number: [GF](#) [OM4](#) [RSC](#) [24](#) [STA](#) [LU](#) [Cca](#) [OR](#)

DESIGN	FIBER TYPE		CONSTRUCTION		FIBER COUNT	ARMORING		OUTER SHEATH		EUROCLASS	COLOR	
GF	108	SM G657A1	RSC	RailSafe Cable	02	STA	Corrugated Steel Tape Armor	LU	HFFR-LS	Cca	YW	Yellow (Standard for Single-mode)
	208	SM G657A2			04						OR	Orange (Standard for Multimode)
	062	OM1			06							
	OM3	OM3			08							
	OM4	OM4			12							
	OM5	OM5			16							
				24								

GFxxxRSCxxSTALU-Cca

PART NUMBERS

Description	Part No.
4 Fiber Single-Mode G.657.A1, ADVENTUM™ RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GF108RSC04STALU-Cca YW
6 Fiber Single-Mode G.657.A1, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GF108RSC06STALU-Cca YW
8 Fiber Single-Mode G.657.A1, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GF108RSC08STALU-Cca YW
12 Fiber Single-Mode G.657.A1, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GF108RSC12STALU-Cca YW
24 Fiber Single-Mode G.657.A1, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GF108RSC24STALU-Cca YW
4 Fiber Multimode OM3, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM3RSC04STALU-Cca OR
6 Fiber Multimode OM3, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM3RSC06STALU-Cca OR
8 Fiber Multimode OM3, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM3RSC08STALU-Cca OR
12 Fiber Multimode OM3, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM3RSC12STALU-Cca OR
24 Fiber Multimode OM3, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM3RSC24STALU-Cca OR
4 Fiber Multimode OM4, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM4RSC04STALU-Cca OR
6 Fiber Multimode OM4, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM4RSC06STALU-Cca OR
8 Fiber Multimode OM4, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM4RSC08STALU-Cca OR
12 Fiber Multimode OM4, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM4RSC12STALU-Cca OR
24 Fiber Multimode OM4, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM4RSC24STALU-Cca OR
4 Fiber Multimode OM5, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM5RSC04STALU-Cca OR
6 Fiber Multimode OM5, ADVENTUM RailSafe CDT STA Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM5RSC06STALU-Cca OR
8 Fiber Multimode OM5, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM5RSC08STALU-Cca OR
12 Fiber Multimode OM5, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM5RSC12STALU-Cca OR
24 Fiber Multimode OM5, ADVENTUM RailSafe CDT STA, Indoor/Outdoor LSHF/LSZH, Euroclass Cca	GFOM5RSC24STALU-Cca OR

Note: Other fiber types and counts are available on request.

For further support information, visit Leviton.com/ns/support

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